



Guide to Geography Programs in the Americas

2017-2018

AAG



Guide to Geography Programs in the Americas 2017-2018

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ABOUT THE AMERICAN ASSOCIATION OF GEOGRAPHERS

The Association

The American Association of Geographers (AAG) is a scholarly, nonprofit organization founded in 1904 to advance professional studies in geography and to encourage the application of geographic research in business, education and government. The AAG was amalgamated with the American Society of Professional Geographers (ASPG) in 1948. From a charter membership of 48 in 1904, Association membership has grown to 12,476 at the end of 2017. Any person or organization interested in the AAG's objectives is eligible for membership. Most professional geographers in the United States and many in Canada and abroad are members of the AAG.

Membership Benefits

- *The Annals of the American Association of Geographers* (bimonthly)
- *The Professional Geographer* (quarterly)
- *The AAG Review of Books* (quarterly)
- *GeoHumanities* (biannually)
- The AAG Online Newsletter
- Participation in annual, regional and special topical meetings at reduced member rates
- Group insurance plans, including professional liability insurance
- Participation in AAG committees, commissions and projects
- Membership in one of nine AAG regional divisions
- Optional membership in up to six AAG affinity and specialty groups
- Discounts on AAG publications
- Discounts on selected journals and books from other publishers
- Engagement with a global community of leading geography researchers, scholars and educators through special AAG initiatives and through an extensive network of online collaborative resources

Specialty Groups and Affinity Groups

Affinity and Specialty groups sponsor annual meeting sessions and workshops, publish newsletters and engage in other activities that advance their professional and scholarly interests. The groups elect officers and report annually on their activities to the AAG Council. AAG membership includes participation (optional, at additional cost) in up to six specialty groups.

Annual Meetings

In recent years, over 9,000 individuals have attended AAG annual meetings, which are held in March or April. Delegates read papers, give poster presentations and participate in field trips, panels, symposia and workshops. Future meetings are scheduled for Washington, DC (2019), Denver (2020), and Seattle (2021).

Publications

- *The Annals of the American Association of Geographers* (bimonthly) contain major articles of scholarly interest to a broad audience, book reviews and commentary.
- *The Professional Geographer* (quarterly) features short articles on timely topics, book reviews and commentary.
- *The AAG Review of Books* (quarterly) holds scholarly book reviews as formerly published in the AAG's flagship journals, *Annals of the AAG* and *The Professional Geographer*, along with reviews of significant current books related more broadly to geography and public policy and/or international affairs.
- *GeoHumanities* (biannually) is the newest journal of the AAG, launched in 2015, and features articles that span conceptual and methodological debates in geography and the humanities; critical reflections on analog and digital artistic productions; and new scholarly interactions occurring at the intersections of geography and multiple humanities disciplines.

AAG Newsletter

The online [AAG Newsletter](#) provides news and information on current activities and opportunities across a broad spectrum of geographic research, teaching and practice. It also publishes presidential columns, necrologies, AAG council meeting minutes, committee reports, opinion pieces and member news.

Jobs & Careers

The [AAG Jobs in Geography Center](#) is the preeminent source of academic jobs in geography, as well as a wide variety of jobs in geography related fields in the public, private, and nonprofit sectors. The searchable database connects employers with thousands of potential employees and gives users the ability to create an account, store resumes, set up alerts, and more.

Guide to Geography Programs in the Americas, AAG Handbook and Member Directory

[The Guide](#), [AAG Handbook](#) and [Member Directory](#) describe geography programs in North American and Latin American colleges and universities and include geographers (AAG members) employed in academic institutions, government agencies and private firms.

AAG Knowledge Communities

The online [AAG Knowledge Communities](#) provide a forum for AAG members, specialty groups, and others to interact and communicate with one another around the world.

Information on AAG membership and Annual Meetings may be obtained from the American Association of Geographers, 1710 16th Street NW, Washington, DC 20009-3198. Phone 202-234-1450. Fax 202-234-2744. Email: membership@aag.org, <http://www.aag.org>

PREFACE

The 2017-2018 edition of the *Guide to Geography Programs in the Americas* describes degree requirements, curricula, faculty qualifications, program specialties, financial assistance and degrees completed for colleges and universities that offer undergraduate and graduate programs in geography in the Americas. The Guide also includes information about government agencies, private firms and research institutions that employ geographers.

The 2017-2018 *Guide* lists a total of 305 academic institutions in the United States, Canada and Latin America. Of these institutions, 266 programs offer bachelors degrees, 195 programs offer masters degrees, and 113 programs offer doctorates in geography (or related fields). There are an additional 23 community college and other programs listed in the *Guide* that offer associates degrees.

The AAG Handbook contains the Association's governance documents; lists of the current AAG Council, committees and appointees; information on past AAG officers; membership and annual meeting data; details regarding regional division and specialty groups; and tabulations of recipients of AAG honors and awards.

A list of recently completed theses and dissertations begins on page 328. It provides a permanent record of graduate research in geography.

The AAG Member Directory contains member information including names, companies or institutions, addresses, telephone numbers, e-mail addresses, degrees and dates earned, topical and areal expertise, and specialty group membership.

The AAG Knowledge Communities provide a forum for AAG members, specialty groups, and others to interact and communicate with one another around the world.

I thank the many individuals who have made the Guide possible, especially the geography program chairs and assistants who provided information for this edition, and Mark Revell, who edited and compiled this information.

The Guide has proven to be a useful tool for students selecting undergraduate and graduate programs, for faculty members advising students and for geographers throughout the Americas and the world. I welcome your suggestions for improvements to future editions of the online *Guide to Geography Programs in the Americas*.

Douglas Richardson
Executive Director

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UNITED STATES

ALABAMA

AUBURN UNIVERSITY

DEPARTMENT OF GEOSCIENCES

DATE FOUNDED: 1999

DEGREES OFFERED: B.A. in Geography; B.S. in Geography; M.S. in Geography; M.S. in Geology; Accelerated B.A./M.S. in Geography

GRANTED 9/1/16-8/15/17: 4 B.A. Geography; 9 B.S. Geography; 2 M.S. Geography; 16 M.S. Geology

MAJORS: 40 Undergrad Geography; 95 Undergrad Geology; 10 Graduate Geography; 21 Graduate Geology

CHAIR: Ming-Kuo Lee

PROGRAM ADMINISTRATIVE ASST: Delaine Tease

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geosciences, 2050 BEMC, Auburn University, Auburn, Alabama 36849. Telephone (334) 844-4074. Fax (334) 844-3409. E-mail: Leeming@auburn.edu. Internet: <http://www.auburn.edu/academic/cosam/departments/geosciences/index.htm>

PROGRAMS AND RESEARCH FACILITIES: The Department of Geosciences at Auburn University offers both graduate and undergraduate majors in Geography the opportunity to join faculty in their research in geospatial analysis, human geography, environmental management, hazards, geomorphology, water resources, biogeography, and climatology. Graduate study will place a special emphasis upon applied research as it relates to these sub-disciplines. Supplementing coursework is the department's map collection and a geographic information systems laboratory.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Admission to the undergraduate major program in Geography is the same as that for admission to the College of Sciences and Mathematics. In addition to the University Core Curriculum requirements, undergraduate majors are expected to take Physical Geography, Cultural Geography, Cartography, Aerial Photography and Remote Sensing, and Geographic Information Systems. Fifteen additional hours of geography, two semesters of a foreign language and a statistics course are also required for the major. Undergraduate majors are eligible for earning credit through internal and external internship programs. Exceptional undergraduate students are encouraged to apply for the Accelerated BA/MS program in Geography which allows both degrees to be earned in a total of five years.

Admission to the graduate program in Geography requires admission to the Auburn University Graduate School as well as the completion of a Bachelors degree in Geography or related field, a minimum undergraduate G.P.A. of 3.0, letters of support, and an acceptable GRE score. Both thesis and non-thesis degree options are available. In both cases, students are required to take courses in Geographic Thought and Quantitative Methods and Spatial Analysis. Students choosing the thesis option will work in consultation with faculty to craft a program of study reflecting their research interests that includes at least 18 additional graduate hours of coursework and a thesis research project (6 credit hours). Students who follow the non-thesis option will complete a customized program of study that includes a minimum of 33 additional credit hours as well as successfully complete written and oral comprehensive examinations. Graduate

applicants are eligible to apply for a graduate teaching or research assistantship that includes a tuition waiver and stipend.

FACULTY:

Carmen Brysch, Ph.D., Texas State University, 2014, Lecturer — geography education

Christopher Burton, Ph.D., University of South Carolina, 2012, Assistant Professor — GIS modeling of climate change related hazards both from a physical risk and vulnerability perspective

Philip L. Chaney, Ph.D., Louisiana State University, 1999, Associate Professor — water resources, natural hazards, coastal geography
Luke Marzen, Ph.D., Kansas State University, 2001, Professor — remote sensing, GIS, human and environmental interface, biogeography, land use change

Chandana Mitra, Ph.D., University of Georgia, 2011, Assistant Professor — climatology, urban climate, geospatial techniques, climate modeling

Adam Payne, Ph.D., Oklahoma State University 2015, Lecturer — gentrification and commodification, place promotion, heritage tourism, urban morphology

Stephanie Rogers, Ph.D., University of Fribourg 2014, Lecturer — GIScience, applied GIS, glacial archaeology, field data collection

Stephanie L. Shepherd, Ph.D., University of Arkansas, 2010, Assistant Professor — fluvial geomorphology, environmental impacts, climate change

EMERITUS FACULTY:

Cyrus B. Dawsey, Ph.D., University of Florida, 1975, Professor Emeritus — Latin America, computer cartography and graphics

Tom L. Martinson, Ph.D., University of Kansas, 1969, Professor Emeritus — Latin America and geographic thought

JACKSONVILLE STATE UNIVERSITY – JACKSONVILLE ALABAMA

DEPARTMENT OF CHEMISTRY AND GEOSCIENCES

DATE FOUNDED: School founded approximately 1830;

Geography has been a part of the institution since 1927

DEGREES OFFERED: Bachelor of Science in Geography

DEGREES GRANTED (Or Expected) 9/1/17 – 8/31/18:

15

MAJORS: 36 Majors and 12 Minors in Geography

CHAIR: Dr. L. Joe Morgan

PROGRAM ADMINISTRATIVE ASSISTANT: Tiffany

Sallee, email: tsallee1@jsu.edu

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Department of Chemistry and Geosciences, Dr. Joe Morgan – Department Head, 700 Pelham Rd (206 Martin Hall), Jacksonville, Alabama 36265. Phone number 256.782.5813.

Email: ljmorgan@jsu.edu Web: <http://www.jsu.edu/cygs/geography/>

PROGRAMS AND RESEARCH FACILITIES:

BS in Applied Geography

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Geography serves as a bridge between the physical and social sciences. Emphasis is on the nature and distribution of environmental systems, human activities, relations between them, and their variation from place to place. Geography's uniqueness is not derived from the subject matter studied, but from the discipline's technical and methodological approach to the locational analysis of phenomena. The

Bachelor of Science in Geography degree offered by the Department of Chemistry and Geosciences requires an overall minimum of 120 semester hours with a minimum of 36 hours of 300/400 level courses. At least 12 hours of 300/400 courses must be taken in residence at JSU. Students must earn a "C" or better in geography coursework and maintain a 2.00 GPA overall and a 2.00 GPA in courses taken on campus. Once the student has met the requirements for the major, the hours remaining to complete the overall 120 hours will be classified as electives. The major requires 35 hours of Geography, including 21 hours of 300/400 level geography courses (this includes GY 307). Any hours remaining to meet the 120 hour minimum will be classified as electives.

FACULTY:

Dr. L. Joe Morgan, PhD. Associate Professor, (Department Head) University at Buffalo, State University of New York. 2007 — GIScience, Human Geography.

Dr. Miriam Hill, PhD. Kent State University, 1986, Professor — Environmental and Hazard Mapping, Natural Hazards, Geography-Earth Science-Geographic Information Science Education, Topographic Map and Air Photo Interpretation, Hazard Mitigation and Vulnerability and Risk Assessment, Environmental Perception and Behavioral Geography, Geographic Thought

Dr. Vicki Tinnon, PhD. Assistant Professor, 2010, Kansas State University — Environmental Injustice: Health and Inequality in Mobile County, Alabama. I offer courses in Physical Geography, World Regional Geography, Advanced Regional Study in Latin America, and Water Resources. I am a broadly trained geographer and enjoy conducting research in both human and physical geography. My most recent research is a collaborative effort that focuses on obstacles to low income homeownership. I am also working on manuscripts dealing with women in physical geography, Jewish settlement in the American Southwest, and the perception of the environment on health. In recent years, I have used my GIS skills for a number of projects, including a summer stint working on databases in Mexico and creating the map for a history book on Native Americans. I thoroughly enjoy teaching and working with students and have been fortunate to assist with research in Urban Geography, Geographic Education, and Natural Hazards and Disasters.

Dr. Daniel McGowin, PhD, Assistant Professor. 2011, The Florida State University. — National Identity in a "State" of Limbo: Scale, Surrogation and Identity in Taiwan. Currently, I offer courses in Human Geography, World Regional Geography, Political Geography, Economic Geography, and Map Reading. In the future, I anticipate teaching Sports Geography, advanced regional courses on Asia and Europe, and specialty course in geography and popular media.

Adjunct Faculty:

Dr. Allison Newton, Adjunct, Human Geography

Emeritus Faculty:

Dr. Kelly Gregg, PhD

UNIVERSITY OF ALABAMA

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1903

GRADUATE PROGRAM FOUNDED: 1963

DEGREES OFFERED: B.A., B.S., M.S., Ph.D. in

Geography, B.S. in Environmental Science

GRANTED 6/1/17-5/31/18: 29 Bachelors, 10 Masters

STUDENTS IN RESIDENCE: 182 Majors, 24 Masters, 6 PhD

NOT IN RESIDENCE: 2 Masters, 1 PhD

CHAIR: Douglas Sherman

DEPARTMENT ADMINISTRATIVE ASSISTANT:

Krystal Feigle

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. Justin Hart, Department of Geography, Box 870322, 204 Farrah Hall, University of Alabama, Tuscaloosa, Alabama 35487-0322. Telephone (205) 348-5047. Fax (205) 348-2278. E-mail: hart013@ua.edu. Internet: <http://geography.ua.edu>.

PROGRAMS: The curricula supporting the B.A. and B.S. degrees in Geography are designed to prepare students in the fields of applied geography, biogeography, climatology, geomorphology, geospatial analysis, human-environment interactions, and planning. The B.S. in Environmental Science, which has an optional concentration in Natural Resources and Ecosystem Conservation, is an interdisciplinary program that requires coursework in geography and other natural sciences. The programs leading to the M.S. and Ph.D. degrees in Geography are designed to prepare students in the fields of biogeography, climatology, geomorphology, geospatial analysis, human-environment interactions, and hydrology. The graduate programs emphasize the application of geospatial analysis to understanding the complexities of socio-environmental systems, biogeochemical processes, environmental sustainability, and the emerging risks that environmental change and degradation pose to society.

RESEARCH FACILITIES: The core of the Department is located in a 30,000 square foot facility near the center of campus. The Department incorporates five research laboratories. The Earth Surface Dynamics Laboratory, which is well equipped for field investigations and laboratory analyses pertaining to geomorphology, soils, and watershed science. The Forest Dynamics Laboratory supports study of applied research in forest disturbance, forest development and succession, silviculture, and ecological plant geography. The Surface Dynamics Modeling Lab strives to improve scientific understanding of planetary surface processes and dynamics through design and utilization of state-of-the-science numerical models. The Dendrochronology Research Laboratory focuses on using tree rings to study past climate. The Laboratory for Location Science studies the optimal location of facilities and movement of resources through space.

The UA Library System includes six separate libraries and the university is a member of the Association of Research Libraries. The collections include over two million books, journals, and microforms, and receives more than 16,000 periodicals, serials, and newspapers. Geospatial Information Services within the Department include the GIS and Remote Sensing Laboratory, Cartographic Research Laboratory, and the University Map Library. The GIS and Remote Sensing Laboratory maintains a state-of-the-art facility for GIS data input, database management, spatial analysis and manipulation, and information output, as well as digital image processing of remotely sensed data. The Cartographic Research Laboratory is designed to operate in an instructional and production environment. The University Map Library, managed by the Department, contains over

350,000 maps and 75,000 aerial photographs. In addition to providing public reference service, the Map Library functions as a research unit.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: A complete application to the graduate program requires transcripts from all universities or colleges attended, official GRE scores, at least three letters of reference, a statement of purpose, and an endorsement from a member of the UA graduate faculty. No students are admitted without consent of a potential advisor. An applicant to the M.S. program is normally required to have a bachelor's degree in geography, environmental science, or a related discipline. Applicants with degrees in disciplines other than geography or with background deficiencies may be required to complete certain undergraduate requirements. An applicant to the Ph.D. program is normally required to have a master's degree; however, an applicant with exceptional credentials may be admitted directly into the Ph.D. program. Minimum admission requirements are a 300 combined score on the GRE and a 3.0 GPA on a 4.0 scale. Successful applicants to the Ph.D. program are normally expected to have a GPA and GRE scores above the average of our M.S. students (3.5 GPA and 310 GRE).

M.S. in Geography, Thesis Option. This option requires a total of 30 credit hours including 6 hours of program requirements (GY500 and GY523), 6 hours of thesis research. A minimum of 12 credit hours must be taken from courses in one of the areas of concentration including earth system science; environment and natural resources; environment and society; or geographical information techniques. The remaining 9 credit hours may consist of courses from any of the other three areas of concentration and/or may be selected from related courses offered in other disciplines with departmental approval (up to 6 of the 9 credit hours). A thesis committee should be established by the end of the first semester of residence and a thesis proposal must be defended by the end of the second semester of residence.

M.S. in Applied Geography, Non-thesis Option. This option requires a total of 39 credit hours including 6 hours of program requirements and 3 hours for non-thesis research projects. Students selecting this option must take a minimum of 8 hours of geographic techniques and may count up to 15 credit hours of such coursework towards their M.S. program. A minimum of 15 credit hours must be taken from courses in one of the areas of concentration including earth system science; environment and natural resources; environment and society; or geographical information techniques. The remaining 10 credit hours may consist of courses from any of the other three areas of concentration; related courses in other disciplines with departmental approval (up to 6 of the 10 credit hours); and/or experiential learning courses (up to 3 of the 10 credit hours). The non-thesis option is only available with consent of the academic advisor and graduate program director.

Doctor of Philosophy. The Ph.D. program requires a minimum of 48 hours of coursework beyond the baccalaureate degree (that may include up to 24 credit hours of approved graduate-level coursework transferred from a master's program and a maximum of 12 hours of non-thesis or non-dissertation research), 24 hours of dissertation research, and a dissertation. The program includes 14 hours of required coursework (GY500, GY523, and two geospatial techniques courses). A dissertation committee should be established by the end of the first semester of residence and a dissertation project should be established by the end of the third semester of residence. Each Ph.D. candidate must pass a candidacy examination, submit and successfully defend a dissertation proposal, and pass an oral dissertation defense. Fellowships and teaching and research assistantships ranging from \$14,000 to \$15,000 for the academic year are regularly granted on a competitive basis. Merit- and diversity-based awards of up to \$6,000 for the academic year are also available for qualified students. The department awards two cartographic assistantships through the Cartographic Research Laboratory, a GIS assistantship through the GIS and Remote Sensing Laboratory, and 16–18 Graduate Teaching

Assistantships. Most assistantships include full tuition waivers and a health insurance supplement. Additionally, support for conference travel and research is available through the Graduate School.

FACULTY:

- Seth Appiah-Opoku, Ph.D., Waterloo, 1997, Professor* — urban and regional planning, environmental impact assessment, indigenous knowledge systems, ecotourism and international development
- Bennett L. Bearden, J.S.D., Pacific, 2011, Research Professor and Director, Water Policy and Law Institute* — water resources, policy, management
- Sagy Cohen, Ph.D., Newcastle, 2010, Associate Professor* — GIS, numerical modeling, geomorphology
- Kevin Curtin, Ph.D., University of California-Santa Barbara; 2002, Professor* — GIS, facilities location science, transportation, logistics, and network GIS
- M. A. Lisa Davis, Ph.D., Tennessee, 2005 Associate Professor* — geomorphology, fluvial
- Johanna Engstrom, Ph.D., Florida; 2017; Geospatial Services Manager*
- Luoheng Han, Ph.D., Nebraska, 1994, Professor and Associate Dean* — remote sensing, GIS, water quality
- Justin L. Hart, Ph.D., Tennessee, 2007, Associate Professor, Director of Graduate Studies and Director of the Environmental Science Program* — biogeography, vegetation dynamics, natural resources management
- David J. Keellings, Ph.D., Florida, 2015, Assistant Professor* — climatology, weather hazards, medical geography, quantitative methods
- Matthew C. LaFavor, Ph.D., Texas, 2014, Assistant Professor* — water management, agriculture, conservation, Mexico and Latin America
- Hongxing Liu, Ph.D., Ohio State, 1999, Professor* — Remote sensing, environmental modeling, hydrology, water quality, cryosphere, coastal hazards
- Nicholas Magliocca, Ph.D., Maryland, Baltimore County, 2012, Assistant Professor* — human-environment interactions, agent-based modeling, land-use change
- Mary W. Pitts, M.S., London, 1989, Instructor and Director of Undergraduate Studies* — natural hazards, environmental site assessment, and water resources
- Craig Remington, M.S., Florida State, 1981, Cartographic Lab Supervisor* — traditional and computer cartography, world regional
- Jason C. Senkbeil, Ph.D., Kent State, 2007, Associate Professor* — severe weather hazards, climatology
- Wanyun "Abby" Shao, Ph.D., Louisiana State, 2012, Assistant Professor* — human-environment interactions, human dimension of climate change, environmental risk perceptions, community resilience to environmental hazards, environmental hazards, public health
- Douglas J. Sherman, Ph.D., Toronto, 1983, Professor and Chair* — geomorphology, coastal, aeolian
- Michael K. Steinberg, Ph.D., Louisiana State, 1999, Professor* — cultural ecology, biogeography, endangered species
- Matthew D. Therrell, Ph.D., Arkansas, 2003, Professor* — dendrochronology, climate reconstruction, biogeography
- Joe Weber, Ph.D., Ohio State, 2001, Professor* — transportation, national parks, historical GIS

EMERITUS FACULTY

- C. Hobson Bryan, Ph.D., Louisiana State, 1968, Professor* — environmental analysis, social impact assessment, resource management, recreation
- David Shankman, Ph.D., Colorado, 1986, Professor* — biogeography, bioclimatology, environmental conservation and planning
- Bobby M. Wilson, Ph.D., Clark, 1974, Professor* — urban geography, social geography, North America

UNIVERSITY OF NORTH ALABAMA

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1929

DEGREES OFFERED: B.A., B.S. in Geography; B.A., B.S. in Geographic Information Science; and M.S. in Geospatial Science

GRANTED 9/1/17-7/31/18: 31 Bachelors, 5 Masters

MAJORS: 112

CHAIR: Francis T. Koti

DEPARTMENT ADMINISTRATIVE ASST: Pam Bishop

GRADUATE PROGRAM COORDINATOR: Michael Pretes

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Francis T. Koti, Department of Geography, University of North Alabama, Florence, AL 35632-0001. Telephone (256) 765-4219, Fax (256) 765-4141, E-mail: ftkoti@una.edu, Internet: www.una.edu/geography

PROGRAMS AND RESEARCH FACILITIES: The department offers two undergraduate major programs: Geography and Geographic Information Science. The major in Geographic Information Science (GIS) is a Science, Technology, Engineering, and Math (STEM) program and is designed to serve students who wish to prepare for careers in the more technical aspects of applied geography, including the fields of geographic information systems (GIS), remote sensing, computer cartography, GIS software development, big data analytics, GIS consulting, business and data analytics, security and logistics, city and/or regional planning, economic geography, environmental agencies, resource exploration, resource utilization and management, and community development and planning. The major in Geographic Information Science also provides preparation for graduate study in geography leading to careers in applied geography or for research and teaching at the collegiate level. The major in Geography is designed for students interested in careers in natural resource management, environmental organizations, community development and planning, municipalities, government, foreign and diplomatic service, international organizations, business, and industry as geographers and cartographers or in teaching geography or social studies in the elementary, middle, junior or high school. This program prepares students for graduate studies within geography and education. The department also offers three topical GIS certificates: Community Development and Planning GIS Certificate; Environmental GIS certificate and Business GIS certificate.

The department also offers an M.S. in Geospatial Science with emphasis on innovative approaches to applying geospatial knowledge and techniques to solve contemporary problems. With both thesis and project options, the focus is application of geographic methods and technologies to: solve complex problems; conduct independent research; develop skills in critical thinking and writing; and enter professions requiring advanced knowledge of geospatial methods, analysis, and techniques. Graduates from the MS program work in various government, public and private sector jobs throughout the country and overseas. These jobs involve GIS software development, data analytics, GEOINT, sustainable agriculture, community development and planning, environmental research and monitoring, utilities, marketing, management, and field work among many other titles. Some of our graduates continue their studies in pursuit of Ph.D. degrees. For the past several years, job and school placement has reached almost 100%

The department supports experiential learning opportunities such as geospatial industry-based internships, co-op experience, study abroad, field courses, research and conference travel, and service learning

activities. The department houses the Freddie Wood Geographic Research Center, which has 40 computers dedicated to undergraduate instruction and research in GIS, remote sensing, and GPS applications. The department also houses a separate GIS-based research lab for graduate students. Software in both labs includes Clark Lab's TerrSet, Hexagon AB's ERDAS Imagine, ESRI's ArcGIS, and a variety of other Open Source software and web development tools.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Office of Admissions requires ACT score, transcript, and application. Financial assistance is available by application to the Financial Aid Office.

FACULTY:

Jian Chen, Ph.D., University of Memphis, 2008, Assistant Professor — GIS, big data analytics, environmental hazards, water resources, remote sensing

David M. Brommer, Ph.D., Arizona State University, 2006, Associate Professor — physical geography, climatology, meteorology, environmental hazards

Gregory G. Gaston, Ph.D., Oregon State University, 1993, Professor — geomorphology, physical geography, remote sensing, climatology, GIS

Francis T. Koti, Ph.D., West Virginia University, 2004, Professor — urban geography, community development and planning, GIS, Africa

Lisa Keys-Mathews, Ph.D., University of Memphis, 2007, Professor — environmental hazards, GIS, remote sensing, cartography

Mario A. Mighty, Ph.D., University of Florida, 2014, Assistant Professor — agriculture, GIS, economic development, sustainability, Caribbean

Michael Pretes, Ph.D., Australian National University, 2006, Professor — geopolitics, historical geography, public lands, tourism, Australia, Pacific, Arctic, western North America

Sunhui Sim, Ph.D., Florida State University, 2010, Assistant Professor — urban remote sensing, urban geography, urban growth modeling, GIS for natural resources management and landscape ecology

EMERITI FACULTY:

Gary M. Green, M.A., University of Georgia, 1976

Priscilla Holland, Ed.D., University of Alabama, 1997

William R. Strong, Ph.D., University of Texas, 1979

ARIZONA

ARIZONA STATE UNIVERSITY

SCHOOL OF GEOGRAPHICAL SCIENCES AND URBAN PLANNING

DATE FOUNDED: 1923 - became School of Geographical Sciences and Urban Planning in 2009

GRADUATE PROGRAM FOUNDED: 1961

DEGREES OFFERED: BA, BS, BSP, MA, MAS, MUEP, MUEP 4+1, PhD in Geography and PhD in Planning

GRANTED 9/1/2016-8/31/2017: 173 Bachelors, 58 Masters, 4 PhDs

STUDENTS IN RESIDENCE (Spring 2018): 776

Undergraduate (with 535 online), 53 Masters, 44 PhD

DIRECTOR: Trisalyn Nelson

FURTHER INFORMATION: Please visit our web site, <http://geoplan.asu.edu>. School of Geographical Sciences and Urban Planning, Arizona State University, Box 875302, Tempe, Arizona

85287-5302. Telephone (480) 965-7533. Fax (480) 965-8313. Email: geoplan@asu.edu

PROGRAMS AND RESEARCH FACILITIES: The School of Geographical Sciences and Urban Planning at ASU offers five graduate degree programs: a PhD in Geography (with an option for a Masters in Passing), a PhD in Urban Planning, a thesis-based MA in Geography, a professional Master's degree in Urban and Environmental Planning (MUEP), and a professional Master of Advanced Study (MAS) degree in Geographic Information Systems (MAS-GIS). There is also an option for an accelerated Bachelor of Science in Planning (BSP) and MUEP degree (4+1).

The MA and PhD degrees in Geography are focused on four broad interdisciplinary areas of inquiry: Computational Spatial Science; Place, Identities and Culture; Earth Systems and Climate Science; and Sustainability Science and Studies.

The PhD in Urban Planning focuses on five broad interdisciplinary themes: City Building and Urban Structure; Environmental and Resiliency Planning; Housing, Neighborhoods, and Community Development; Spatial Analytics and Smart Cities; and Transportation Planning and Policy.

The PhD degree in Geography through the Masters in Passing (MIP) requires 30 semester hours of graduate credit beyond the bachelor's degree and 54 semester credits after passing the research requirement, which constitutes advancement into the PhD program. The traditional (post master's) PhD degrees, offered in both geography and urban planning, require 84 semester credits of which 30 can be used from a previously earned master's degree. The MA degree requires 30 semester hours beyond the bachelor's degree and a thesis.

The MUEP degree is an accredited, transdisciplinary professional degree designed to prepare students for leadership roles in planning in the public and private sectors. It requires 47 credit hours and has three options for completion: thesis, professional project or capstone studio.

The Master of Advanced Study degree in Geographic Information Systems (MAS-GIS) provides students with a balance of technological expertise, project-management skills, and application experience to prepare them for managerial and executive-level jobs. All courses in the one-year program are offered during the evenings accommodate full-time work schedules.

Research Facilities: The school houses two research centers: (1) the *Spatial Analysis Research Center (SPARC)*, which advances the science and technology of GIScience and earth observing to lead the transdisciplinary application of spatial data science solutions, and (2) the *Urban Climate Research Center (UCRC)*, which employs a collaborative social/physical science framework to address critical issues in the urban atmospheric environment.

Research Partners: ASU is transforming itself into a model for the New American University, emphasizing intellectual fusion and transdisciplinary use-inspired research, stressing local embeddedness as well as global engagement. The School of Geographical Sciences and Urban Planning is slated to play an important role in this endeavor. The School faculty come from a range of training backgrounds and research interests and have strong affiliations with several interdisciplinary units on campus, the School of Sustainability, the School of Earth and Space Exploration, the School of Public Affairs and the School for the Future of Innovation in Society. Faculty play major roles in several transdisciplinary research efforts, including the Julie Ann Wrigley Global Institute of Sustainability, the Consortium for Science, Policy and Outcomes, and the Institute for Social Science Research, the Central Arizona-Phoenix Long Term Ecological Research Project (CAP-LTER) and the State Climatologist Office. The location of the University in the greater Phoenix metropolitan area in Southwestern United States, in close proximity of

Northern Mexico and the Western mountains also provides an ideal laboratory for field research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS AND FINANCIAL AID: Academic plan: semester system.

Masters' degrees: Admission requirements for MA or MUEP: bachelor's or master's degree from a regionally accredited institution with a minimum of 3.00 GPA for the last two academic years. For MAS/GIS: bachelor's degree from a regionally accredited institution with a minimum of 3.00 GPA for the last two academic years; Bachelor's degree should be in a related field, or with at least three years related professional experience, bachelor's degree may be in any field.

PhD degrees: For PhD Geography: master's degree from a regionally accredited institution with a minimum of 3.00 GPA for the last two academic years. Students with strong potential may be admitted directly following a bachelor's degree through the Masters in Passing option. For PhD Urban Planning: master's degree in a related field such as urban studies, geography, environmental studies, sustainability, architecture, public policy or public administration from a regionally accredited institution with a minimum of 3.00 cumulative GPA.

Required exams: GRE scores are required and used in determining admittance into MA, MUEP, and PhD programs. The Test of English as a Foreign Language (TOEFL), International English Language Testing System (IELTS), or Pearson Test of English (PTE) is required for all applicants whose native language is not English; an applicant whose native language is not English (regardless of current residency) must provide proof of English proficiency.

Teaching assistantships, university scholarships, and other awards are available. Teaching and Research assistantship stipends range from \$15,000 to \$21,000 for the academic year for full-time appointments. Stipends are prorated for part-time and one-semester appointments. Doctoral graduate assistants receive waivers of all out-of-state and in-state tuition, and health benefits. Master's graduate assistants receive partial tuition waivers. Graduate assistantships are competitive and awarded on a merit basis.

FACULTY:

Robert C. Balling Jr., PhD, Oklahoma, 1979, Professor — climatology, climate change, physical climatology, spatial statistics

Randall S. Cerveny, PhD, Nebraska, 1986, President's Professor — dynamic and synoptic meteorology, global climate modeling

Netra Chhetri, PhD, Pennsylvania State, 2007, Associate Professor — land uses & cover, human dimensions of global climate change, water resources, political ecology of resources

Dylan Connor, PhD, University of California, Los Angeles, 2017, Assistant Professor — Spatial demography, economic geography, economic history, GIScience, statistical modeling, international migration

Stephanie Deitrick, PhD, Assistant Clinical Professor — cartography, visualization, GIS

Ronald I. Dorn, PhD, UCLA, 1985, Professor — desert, hill slope, and quaternary geomorphology, dating methods, remote sensing

Meagan Ehlenz, PhD, University of Pennsylvania, 2015, Assistant Professor — community development, anchor institutions, urban revitalization, community wealth building, shared equity models

Stewart Fotheringham, PhD, McMaster University, Canada, 1980, Foundation Professor — collection, visualization and analysis of spatial data, including but not limited to: Spatial statistics; geographic information science; spatial interaction modeling; health geography; transportation; migration analysis; house price analysis, retail geography and crime pattern analysis

- Amy Frazier, PhD, State University of New York at Buffalo, 2013, Assistant Professor — GIScience including data representation, MAUP, scale, landscape heterogeneity and spatial pattern metrics; emerging landscape paradigms within landscape ecology; Remote sensing, including spectral unmixing, sub-pixel classification, and super-resolution mapping; unmanned aircraft systems (UAS); imaging spectroscopy
- Matei Georgescu, PhD, Rutgers University, 2008, Associate Professor — modeling; climate change; land-atmosphere interactions; environmental impacts of bioenergy expansion; urbanization effects on weather and climate; modeling and simulation; scientific computing; land use change
- Patricia Gober, PhD, Ohio State, 1975, Research Professor — population, housing demography, urban, migration
- David Hondula, PhD, University of Virginia, 2013, Assistant Professor — environmental hazards; environmental health; informatics; climate change and variability; urban climate; climate adaptation
- Peter Kedron, PhD, State University of New York at Buffalo, 2012, Assistant Professor — evolution of the economic landscape, socio-ecological interactions that shape urban environments, spatial statistical methods and mixed methodologies
- Jason Kelley, PhD, Arizona State University, 2013, Lecturer — urban transportation planning, environmental justice, sustainable urban planning and design
- Joochul Kim, PhD, Michigan, 1979, Associate Professor — community planning, economic development planning, housing and international planning
- David King, PhD, University of California Los Angeles, 2008, Assistant Professor — codependence of transportation and land use planning, and transportation finance and economics, including parking policy, taxi services, micro-transit, and urban freight, and how these policies interact with land use planning
- Michael Kubly, PhD, Boston, 1988, Professor — transportation, energy, optimal facility location and network analysis models, alternative fuels/infrastructure/driver behavior, light rail, transportation and land use, bicycle, megaregions, carbon capture and storage
- Kelli L. Larson, PhD, Oregon State at Corvallis, 2004, Professor — water resource geography and governance; human dimensions of sustainability; risk perceptions, policy preferences, and human ecological behavior
- Elizabeth Larson, PhD, Wisconsin, Milwaukee, 1991, Lecturer — peace studies, human rights, and refugee studies
- Wei Li, PhD, Southern California, 1997, Professor — race and urban ethnicity, housing, ethnic finance, highly-skilled international migration
- Wenwen Li, PhD, George Mason University, 2010, Associate Professor — geographic information science, geospatial cyberinfrastructure, semantic interoperability
- Kevin E. McHugh, PhD, Illinois, 1984, Associate Professor — geographical thought and theory, cultural geographies, phenomenology and posthuman geographies, senses and the city
- Sara Meerow, PhD, University of Michigan, 2017, Assistant Professor — urban resilience, green infrastructure planning, climate change adaptation, urban climate change governance; electricity infrastructure planning; coastal megacities
- Soe W. Myint, PhD, Louisiana State, 2001, Professor — environment, remote sensing
- Trisalyn Nelson, PhD, Wilfrid Laurier University, 2005, Director and Professor — spatial data science, movement, spatial ecology, active transportation, citizen science, www.BikeMaps.org
- Breandán Ó hUallacháin, PhD, Illinois, 1982, Professor — economic, industrial location, urban, regional economic development
- Martin J. Pasqualetti, PhD, University of California, Riverside, 1977, Professor — natural resources, energy, environmental systems, nuclear power
- Robert Pahle, PhD, Arizona State University, 2008, Assistant Research Professor — decision science, decision support systems, high-performance computing, geographic information science and systems
- Deirdre Pfeiffer, PhD, UCLA, 2011, Associate Professor — housing and community development, race and class stratification, participatory planning, qualitative methods
- David Pijawka, PhD, Clark University, 1983, Professor — sustainable planning and design, socio-economic assessments, disaster management and recovery planning, perception and behavior studies, institutional design
- Erinanne Saffell, PhD, Arizona State University, 2004, Lecturer — hydroclimatology; systems of risk, vulnerability, resilience associated with extreme weather and climate events
- David J. Sailor, PhD University of California, Berkeley, 1993, Professor — urban climate dynamics: urban climate, energy consumption, thermal comfort, and renewable energy
- Deborah Salon, PhD University of California, Davis, 2006, Assistant Professor — transportation and land use, urban economics, climate policy
- Mark W. Schmееckle, PhD, Colorado, 1998, Associate Professor — geomorphology, fluvial processes, earth surface transport and morphodynamics
- Nancy Selover, PhD, Arizona State, 2005, Research Professor and Arizona State Climatologist — urban climatology, evaporation, drought, micro-climate field research
- J. Duncan Shaeffer, PhD, Arizona State, 2001, Senior Lecturer — world regional and cultural geography
- Daoqin Tong, PhD, The Ohio State University, 2007, Associate Professor — GIS, spatial statistical modeling, spatial uncertainties and big data analytics, with applicants including transportation, urban activity dynamics and public health
- B. L. Turner II, PhD, Wisconsin, Madison, 1974, Gilbert F. White Professor of Environment and Society — human-environment relationships, land change science, sustainability, tropical forests, ancient Maya
- Ian Walker, PhD, University of Guelph, 2000, Professor — sediment transport and erosion, aeolian (windblown) geomorphology, coastal geomorphology, environmental fluid dynamics, sand dune ecosystems and restoration, beach-dune morphodynamics, Holocene landscape evolution
- Douglas Webster PhD, University of California, Berkeley, 1977, Professor — sustainable urbanization, city building in China, Southeast Asian urbanization, urban competitiveness/city development strategies
- Elizabeth A. Wentz, PhD, Pennsylvania State, 1997, Dean of Social Sciences, Professor — GIS, spatial analysis, environmental, urban remote sensing
- Susanna Werth, PhD, University of Potsdam, Assistant Research Professor — Earth's gravity field, hydrology, remote sensing, modeling, signal processing, climate change
- AFFILIATED FACULTY:**
- Bob Bolin, PhD, Colorado, 1976, Professor — political ecology, environmental hazards and risk, contemporary social theory, social movements and change, urban sociology/geography
- Christopher Boone, PhD, Toronto, 1994, Professor — urbanization, urban environments, urban sustainability, environmental justice
- Brittany Crow-Miller, PhD, UCLA, 2013, Assistant Professor — human geography, sustainability, development, socio-technical/techno-political systems, hydropolitics, water resource management, infrastructure, political ecology, water-energy-food nexus, inter-basin water transfer
- Hallie C. Eakin, PhD, University of Arizona, 2002, Associate Professor — vulnerability, adaptation, global change, globalization, Latin America, Mexico, food systems, agrarian change
- Anthony Grubisic, PhD, The Ohio State University, 2000, Professor — GIScience, transportation, urban health, crime, regional development, environmetrics, public policy evaluation and spatial statistical methods

Kevin Robert Gurney, PhD, Colorado State University, 2004, Associate Professor — global biogeochemistry, carbon cycle, carbon-climate feedbacks, fossil fuel CO₂ emissions, climate policy

Francisco Lara-Valencia, PhD, University of Michigan, 2002, Associate Professor — Southwest borderlands development planning, economic development planning, urban health disparities, environmental vulnerability

Michael E. Smith, PhD, University of Illinois at Urbana-Champaign, 1983, Professor — archaeology; premodern urbanism; comparative urbanism; comparative inequality; historical social science; Aztec society; Mesoamerican archaeology

Jianguo (Jingle) Wu, PhD, Miami University, 1991, Professor — landscape ecology, urban ecology, and sustainability science

EMERITUS FACULTY:

Frank T. Aldrich, PhD, Oregon State, 1972, Professor — GIS, cartography/computer graphics, field methodology, remote sensing

Daniel D. Arreola, PhD, UCLA, 1980, Professor — cultural, landscapes, Mexican-American borderlands

Elizabeth K. Burns, PhD, UC Berkeley, 1974, Professor — urban, land use, transportation, urban and regional planning

Anthony J. Brazel, PhD, Michigan, 1972, Professor — physical, microclimatology, alpine climatology, applied meteorology

Malcolm L. Comeaux, PhD, Louisiana State, 1969, Professor — cultural, historical, history of geographic thought, Southwestern United States

Katherine Crewe, PhD, Massachusetts, 1997, Associate Professor — planning practice and transportation; historic preservation, citizen participation, gender studies and planning, physical planning/urban design, International Urban Design

Hemalata C. Dandekar, PhD UCLA, 1978, Professor — Urban and Regional Planning

Patricia L. Fall, PhD University of Arizona, 1988 — biogeography, human impact on ancient and modern environments

William L. Graf, PhD, Wisconsin, 1974, Regents Professor — fluvial, public land policy, arid lands

W. Donald McTaggart, PhD, Australian National, 1963, Professor — underdeveloped nations, urban, Southeast Asia

Robert C. Mings, PhD, Ohio State, 1966, Professor — recreational, tourism, economic, social

Ruth A. Yabes, PhD, Cornell University, 1990, Professor — participation, community development, international planning, planning pedagogy

MESA COMMUNITY COLLEGE

CULTURAL SCIENCE DEPARTMENT
FOUNDED: 1966

DEGREES OFFERED: A.A. with concentration in Geography; A.A.S. in Applications in Geospatial Technologies

CERTIFICATES OFFERED: Information Systems Technician, Sustainability, Global Citizenship

FOR FURTHER INFORMATION WRITE TO:

Dr. Erinanne Saffell, Cultural Science Department, Mesa Community College, 1833 W. Southern Ave., Mesa, Arizona 85202. Telephone (480) 461-7035. Fax (480) 461-7812.

E-mail: erinanne.saffell@mesacc.edu.

Internet: <https://mesacc.edu/departments/cultural-science/geography>

COURSES OFFERED:

Introduction to Physical Geography, World Regional Geography, Introduction to Human Geography, Introduction to Meteorology, Climate and Weather, Society and Environment, Landform Processes,

Arizona Geography, Extreme Weather and Climate, Geographic Information Technologies, Geographic Information Science I, Geographic Information Science II, Introduction to Digital Image Processing, GIS Internship, Geography Service Learning Experience, Introduction to Sustainability, Sustainable World, Sustainable Cities, Professional Skills in Sustainability, Careers in Sustainability

Students may participate in departmental field trips, service learning opportunities, study abroad programs, and use of a GIS lab.

FACULTY:

Karen E. Blevins, M.A., Arizona State University, 2002 — geographic information science

Niccole Villa Cervený, Ph.D, Arizona State University, 2005 — physical geography, geomorphology

Michelle Pulich-Stewart, M.A.G., Texas State University, 2001 — environmental geography, sustainability

Erinanne Saffell, Ph.D, Arizona State University, 2004 — meteorology/climatology

NORTHERN ARIZONA UNIVERSITY

**DEPARTMENT OF GEOGRAPHY, PLANNING, AND
RECREATION**

DATE FOUNDED: 1967

GRADUATE PROGRAM FOUNDED: 1990

DEGREES OFFERED: B.S. in Geographic Sciences and Community Planning; B.S. in Public Planning; B.S. in Parks and Recreation Management; M.S. in Applied Geospatial Sciences; Certificate in Parks and Recreation Management; Graduate Certificate in Geographic Information Systems; Graduate Certificate in Community Planning; M. of Administration in Community Planning and Geographic Information Systems

GRANTED 9/1/16-6/1/17: 74 BS Geographic Science and Planning; 415 BS Recreation; 58 Masters; 46 Graduate Certificates

STUDENTS IN RESIDENCE: 41 BS Geographic Science and Planning; 356 BS Recreation; 38 Masters; 42 Graduate Certificates

CHAIR: Alan A. Lew

DEPARTMENT ADMINISTRATIVE ASSOCIATE: Dana Mandino

FOR FURTHER INFORMATION WRITE TO: Administrative Associate, Department of Geography, Planning, and Recreation, Northern Arizona University, NAU Box 15016, Flagstaff, Arizona 86011-5016. Telephone (928) 523-2650. Fax (928) 523-2275. E-mail: geog@nau.edu. Internet: <http://nau.edu/sbs/gpr>.

PROGRAMS AND RESEARCH FACILITIES: The B.S. degree is offered with majors in Geographic Science and Community Planning, and in Parks and Recreation Management. The Geographic Sciences and Community Planning major integrates geographic knowledge and GIS mapping technologies with the problem-solving fields of community planning and urban design. Known as Geodesign, this educational framework will prepare you to create more livable and sustainable communities while contributing to a better world. The Parks and Recreation Management program offers emphases in (1) community, commercial and tourism recreation, (2) outdoor education and leadership, (3) park protection, and (4) individualized studies. The Parks and Recreation Management degree program is also available as a fully online degree. The department also offers a Park Ranger Training Program, which is one of only a handful of such programs

across the United States. This program offers a national park service approved basic law enforcement training for those seeking seasonal and permanent law-enforcement ranger jobs with the national park service. For more information see the program website at www.prm.nau.edu/rangers. The Park Ranger Training is also part of the Park Protection emphasis area within the PRM degree program. The Department of Geography, Planning, and Recreation also offers a 15 semester hour undergraduate certificate in parks and recreation management over the Internet, and an 18 semester hour graduate-level certificate in GIS and a 15 semester hour graduate-level certificate in Community Planning.

For students interested in graduate studies, we offer an accelerated Bachelors to Masters degree program in Applied Geospatial Sciences for NAU undergraduate students majoring in our B.S. Geographic Sciences and Community Planning and B.S. Parks and Recreation Management. The accelerated B.S.- M.S. program offers highly qualified and mature undergraduate students the opportunity for graduate study earlier than would normally be possible. The program is open to students who have demonstrated a mastery and commitment to the emphasis areas offered in the M.S. in Applied Geospatial Science. **Benefits of the Integrated Program include:** The Graduate Record Exam (GRE) is not required. We use coursework experience in the department to evaluate this aspect of the application. Students may transfer 6 units from the B.S. degree to the M.S. degree. Students must meet with an advisor prior to application to determine the 6 units that will be transferred. These units will continue to apply to the B.S. degree, which means the student will have 6 fewer units to complete the two degrees. Students can graduate in 5 years with both a B.S. and M.S. degree, if they plan their program of study appropriately.

At the graduate level, we offer the MS Applied Geospatial Sciences degree and the MS Parks and Recreation Management degree. These graduate degrees are designed for students who want to pursue a career in community development, land management, recreation administration and programming, geographic information systems (GIS), and public planning. The MS Applied Geospatial Sciences degree is offered both on-campus and is available through both thesis and nonthesis plans. This nonthesis plan requires a professional applied paper that is overseen by your practicum committee. The MS Parks and Recreation Management degree is an online only program designed for recreation professionals and does not have a thesis or practicum requirement.

NAU is ideally situated for field studies and research in geography, planning and recreation. The Grand Canyon and five other national parks and the largest American Indian reservation in the U.S. are all within a day's drive of the campus. Department research facilities include two well equipped GIS/ remote sensing labs and a Geodesign studio classroom. Our faculty members have a long-standing commitment to provide personalized attention to the needs of the individual student through close student-faculty interaction in a friendly, intellectually stimulating campus atmosphere.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system.

UNDERGRADUATE: For department information write the Administrative Associate. For university application materials write to Office of Admissions, NAU Box 4084, Flagstaff, Arizona 86011-4084.

GRADUATE: For the M.S. and GIS Certificate and Community Planning graduate certificate programs, a 3.0 GPA and undergraduate geography degree are preferred, but other majors can be accepted with course deficiencies. Teaching and research assistantships are available. Application forms must be submitted to both the NAU Graduate College and to the department. For additional information contact the Geography or GIS Program Coordinators (below) at the

department address, or visit the department website. Applications received in full by August 1st (for Fall semester admissions) and January 1st (for Spring semester admissions) will receive priority consideration for graduate assistantships.

FINANCIAL AID: Office of Student Financial Aid, NAU Box 4108, Flagstaff, Arizona 86011-4108 <http://nau.edu/finaid/>.

GEOGRAPHY AND PUBLIC PLANNING FACULTY:

Jessica R. Barnes, Ph.D., Ohio State University, 2014; Lecturer — human geography, developing world, climate change, cultural geography
R. Dawn Hawley, Ph.D., Arizona State University, 1994; Professor; Geographic Science & Community Planning Coordinator — public land policy, economic geography, urban geography, GIS, U.S. geography
Ruihong 'Ray' Huang, Ph.D., University of Wisconsin-Milwaukee, 2003; Associate Professor — GIS, spatial Statistics, urban transportation planning, land use planning, geomorphology
Alan A. Lew, Ph.D., University of Oregon, 1986; AICP; Professor — urban planning, tourism, East and Southeast Asia
Tia Elizabeth Johnson, Ph.D., University of Arizona, 2016; Lecturer - Historical geography, American Indian, Resource management, GIS
Mark Manone, M.A., Northern Arizona University; Associate Professor of Practice — GIS education, Natural resource management
Brian Petersen, Ph.D. University of California - Santa Cruz, 2010. Assistant Professor — Environmental Studies, Forest Resource Management, Sustainability, Climate Change and Society
Erik Schiefer, Ph.D., University of British Columbia, Canada, 2004; Assistant Professor — Physical Geography, GIS, and Geomorphology. MS Applied Geospatial Sciences Graduate Program Coordinator
Amanda Stan, Ph.D, University of British Columbia, Canada, 2008; Lecturer — Physical Geography, Weather and Climate, Global analysis.
Margo Wheeler, MURS, University of Southern California, 1981; FAICP; Lecturer — Community Planning, Urban Design, Capstone Studio, Planning Law and Ethics, Sustainable Tourism Development.

PARKS AND RECREATION MANAGEMENT FACULTY:

Aaron Divine, M.S., Northern Arizona University, 2005; Senior Lecturer, Outdoor Leadership Program; Parks and Recreation Program Coordinator — Outdoor Leadership, NOLS
Kathleen Finlayson, M.Ed., Northern Arizona University, 2013; Instructor – community and commercial recreation, sports programming
Charles Hammersley, Ph.D., New Mexico, 1988; Professor — community and commercial recreation, outdoor leadership, event planning, recreation facility development and administration
John Lynch, M.A., Northern Arizona University, 2011; Lecturer — Introduction to parks and recreation management, wilderness within, outdoor leadership I and II
Mark Maciha, Ed.D., Northern Arizona University, 2014; Assistant Professor of Practice, Park Ranger Training Program Director — Park protection I and II, wildland recreation, natural resources protection
Judith Montoya, M.A., New Mexico, 1985; Principal Lecturer — community and commercial recreation, recreation program planning, inclusive recreation, camp counseling
Rosanna "Marieke" Taney, M.S., Northern Arizona University, 2006; Lecturer, Distance Learning Program — River rafting and outdoor education specialties

EMERITUS FACULTY:

Robert O. Clark, Ph.D., Denver, 1970 — Geomorphology, climatology, meteorology, arid lands, cartography, world geography, Anglo-America

Carolyn M. Daugherty, Ph.D., Arizona State, 1987; Associate Professor — rural and small town planning, site planning, environmental resource planning

Leland R. Dexter, Ph.D., Colorado-Boulder, 1986; Professor — computer cartography, geomorphology, climate, GIS, remote sensing, field techniques; GIS Programs Coordinator

Pamela Foti, Ph.D., Wisconsin, 1988; Professor — wildland recreation and expeditions, outdoor recreation research and policy, impact analysis, park and recreation agencies

Christina B. Kennedy, Ph.D., Arizona, 1989; Professor — landscape studies, environmental perception, geography of film, resource management, environmental studies

Stanley W. Swarts, Ph.D., UCLA, 1975 — cartography, climate geomorphology, American Southwest, and lands

Graydon Lennis Berlin, Ph.D., Tennessee, 1970; Regents Professor — remote sensing, arid lands, geomorphology, natural hazards

George A. Van Otten, Ph.D., Oregon State, 1977 — cultural, economic, land use planning, geographic education, Native Americans

PIMA COMMUNITY COLLEGE

PHYSICAL & GEOLOGICAL SCIENCES**DEPARTMENT**

DEGREES OFFERED: A.A or A.S. for transfer to four-year colleges and universities

HEAD OF GEOGRAPHY: Michael Talbot

FOR FURTHER INFORMATION WRITE TO: Michael Talbot
Pima Community College West Campus 2202 W. Anklam Rd.
Tucson, AZ 85709 Telephone: (520) 206-6031 Email:
mtalbot@pima.edu Internet: www.pima.edu

COURSES OFFERED: Introduction to Physical Geography: Weather & Climate, Introduction to Physical Geography: Landforms & Oceans, Introduction to Cultural Geography, Introduction to Geographic Information Systems (GIS), Introduction to Medical Geography, Mapping Concepts, Computer Cartography and CAD, Independent Studies in Geography.

MATRICULATION AGREEMENT WITH FOUR-YEAR UNIVERSITIES: PCC Geography courses matriculate to all state colleges and universities.

FACULTY:

Michael Talbot: M.A. Geography, Western Michigan University 1994

ADJUNCT FACULTY:

John Reynolds A.M. Geophysics, Indiana University, 1978

UNIVERSITY OF ARIZONA

SCHOOL OF GEOGRAPHY AND DEVELOPMENT

DATE FOUNDED: 1961

GRADUATE PROGRAM FOUNDED: 1963

DEGREES OFFERED: B.A., B.S., B.S GIST, M.A., M.S., M.S.GIST, MDP, Ph.D.

GRANTED 7/1/16-6/30/17: 115 BA/BS, 4 Masters, 8 Ph.D., 36 GIST, 13 MDP

STUDENTS IN RESIDENCE: 393 Undergraduate Majors, 11 MA, 52 MS, 26 MDP, 53 Ph.D.

DIRECTOR: Lynn A. Staeheli

ASSOCIATE DIRECTOR: Greg Barron-Gafford

FOR FURTHER INFORMATION: Visit the School's website at <http://www.geography.arizona.edu/>. If you have further questions email the Undergraduate and Graduate Program Coordinator, Elizabeth S. Cordova, at elizabec@email.arizona.edu. Main contact information: School of Geography and Development, ENR2 Building, POB 210137, University of Arizona, Tucson, Arizona 85721. Telephone (520) 621-1652. Fax (520) 621-2889.

PROGRAMS AND RESEARCH FACILITIES: Undergraduate: The School offers a B.A. and B.S. in Geography, a B.S. in Urban and Regional Development, a B.S. in Geographic Information Systems Technology, and a B.A. in Environmental Studies. Emphases in the B.A. and B.S. in Geography include physical and environmental, human, and techniques. For the B.S. in Urban and Regional Development, a business minor is strongly recommended. Internships, paid or unpaid, are arranged by the School with local governmental agencies or private sector employers. Graduate: Fields of specialization for the M.A. and Ph.D. degrees include: Critical Human Geography, Human-Environment Relations, Physical Geography, Regional Development, Water Resources and Policy, Climate and Paleoclimate and Methodology and Technology. The School also offers a one-year, professional M.S. in GIST and a Masters in Development Practice. The School participates, with other programs, in offering a Graduate Certificates in GI Science, Water Policy, and Connecting Environmental Science and Decision Making. The School supports a wide range of methodological approaches, including critical methods, GIS, qualitative methods, remote sensing, spatial econometrics, and web-based decision support systems. Strong alliances are maintained with other departments, interdisciplinary programs, and research centers stressing the social and environmental sciences. Many affiliated faculty are actively involved in teaching and graduate training, including serving as primary advisors. For complete information, go to: www.geography.arizona.edu.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. GRE scores required for admission. Assistantships with competitive stipends and remission of tuition and health insurance are available to qualified applicants. Applications for admissions and assistantships should be complete by January 5.

FACULTY:

Kevin J. Anchukaitis, Ph.D., University of Arizona, 2007, Associate Professor — paleoclimatology, dendrochronology, spatiotemporal statistics, climatology, drought, human-environment interactions; Latin America, United States, Asia, Mediterranean

Keiron Bailey, Ph.D., Kentucky, 2002, Associate Professor — participatory geographic information science; geovisualization; east Asia/western Pacific, commercial aviation, structured public involvement

- Jeffrey M. Banister, Ph.D., University of Arizona, 2010, Assistant Research Social Scientist and Assistant Research Professor, Southwest Center and School of Geography and Development — political and cultural geography, Latin America, environment, Mexico
- Greg Barron-Gafford, Ph.D., 2010, Associate Professor and Associate Director — biogeography, environment, leaf biochemistry, ecosystems, climate change, ecology, forest ecology
- Carl J. Bauer, Ph.D., UC Berkeley, 1995, Associate Professor and Director of Graduate Studies — comparative and international water law, policy, and political economy; geography, law, and property; Latin America, Western USA, Spain
- Stefano Bloch, Ph.D., University of Minnesota, 2012, Assistant Professor — Chicano/a urbanism, street gangs, crime, ethnography, policing, qualitative methods, race and ethnicity, spatial theory, subcultures.
- Stephanie Buechler, Ph.D., Binghamton University, 2001, Lecturer and Research Associate — sustainable urban development, gender and the environment, climate change and adaptation in urban and rural areas, water scarcity and community adaptation and international development, U.S., Mexico, Latin America, South Asia
- Gary L. Christopherson, Ph.D., Arizona, 2000, Associate Professor of Practice and Director of the Center for Applied Spatial Analysis — geographic information systems, archaeology, wildfire, urbanization
- Andrew C. Comrie, Ph.D., Pennsylvania State, 1992, Professor — climate variability, synoptic climatology, climate applications in air quality, health, and environment
- Vincent Del Casino Jr., Ph.D., University of Kentucky 2000, Professor and Vice Provost for Digital Learning and Student Engagement and Associate Vice President for Student Affairs and Enrollment Management — human geography, social and cultural geography, health, geographic thought and history, sexuality studies and health politics in Southeast Asia and Long Beach, CA.
- Sapana Doshi, Ph.D., UC Berkeley 2011, Associate Professor — critical development studies, urban geography, cities of the Global South, feminist geography, cultural politics, social movements, ethnography, Mumbai
- Thomas Evans, Ph.D., University of North Carolina at Chapel Hill 1998, Professor — agricultural decision-making, food security, environmental governance along with spatial analysis, GIS, remote sensing and simulation modeling
- Andrea K., Gerlak Ph.D., University of Arizona 1997, Associate Professor — water governance and policy, global environmental policy, transboundary waters, groundwater management resilience, adaptation, social-ecological systems, western U.S., Latin America, SE Asia and Europe.
- John Paul Jones III, Ph.D., Ohio State, 1984, Professor and Dean — social and cultural theory, history of geographic thought, critical human geography, research methodology and techniques
- Mark Kear, Ph.D., Simon Fraser University, 2015, Assistant Professor — financial geography, urban geography, ethnography, urban poverty, financial exclusion, financial literacy, financial empowerment, governmentality, biopolitics, credit and debt, personal/consumer finance, financial regulation, payment systems.
- Diana M. Liverman, Ph.D., UCLA, 1984, Regents Professor, Geography — human dimensions of global environmental change, climate impacts, adaptation and policy, political ecology, Latin America
- Christopher Lukinbeal, Ph.D., San Diego State/University of California, Santa Barbara, 2000, Associate Professor and Director of MS in GIST — cultural geography, media and cinema, GIScience
- Sallie A. Marston, Ph.D., Colorado, 1986, Professor and Director of UA Community and School Garden Program — political, cultural, social theory and feminist geography
- Orhon Myadar, Ph.D., University of Hawaii, Manoa, 2007, Assistant Professor — nationalism, urban geography, mobility, film, resource politics, political geography of post-Soviet states.
- Elizabeth A. Oglesby, Ph.D., University of California, Berkeley, 2000, Associate Professor and Chair of the Undergraduate Committee — critical development, political economy, ethnography, human rights and post-conflict issues, Latin America
- Tracey Osborne, Ph.D., University of California, Berkeley, 2010, Associate Professor — social dimensions of climate change mitigation, agrarian studies, political ecology, Mexico, Latin America and the Caribbean.
- David A. Plane, Ph.D., Pennsylvania, 1981, Professor — migration, population, transportation, and regional science
- Dereka Rushbrook, Ph.D., Arizona, 2005, Associate Professor of Practice and Director of Undergraduate Studies — development, Latin America, social theory/social justice
- Christopher A. Scott, Ph.D., Cornell, 1998, Professor and Director and Research Professor, Udall Center for Studies in Public Policy — water management and policy, climate and water variability, urban water demand, water reuse, energy-water nexus, groundwater; Southwest U.S., Mexico, South Asia
- Katherine Snyder, Ph.D., Yale University, 1993, Professor and Director of Master's of Development Practice Program — Sub-Saharan Africa, Tanzania, Kenya, Ethiopia, Malawi, and Ghana.
- Lynn A. Staeheli, Ph.D., University of Washington, 1989, Professor and Director — Community and political activism, citizenship, public space, memory and post-conflict societies, gender, youth, religion and race, Lebanon, South Africa, US, Europe
- Willem van Leeuwen, Ph.D., Arizona, 1995, Associate Professor, Geography and School of Natural Resources and Environment — landscape ecology, dryland environments, biogeography, remote sensing, field methods
- Margaret O. Wilder, Ph.D., Arizona, 2002, Associate Professor, Geography and Latin American Studies, and Environmental Policy — political ecology of water and environment in Mexico, climate-related vulnerability and adaptation in U.S.-Mexico border, development and Latin America
- Connie Woodhouse, Ph.D., University of Arizona, 1996, Professor — paleoclimatology, dendrochronology, climate variability, water resources, western U.S.
- EMERITI FACULTY:**
- D. Robert Altschul, Ph.D., Illinois
- Wayne Robert Decker, Ph.D., Johns Hopkins University
- Lay James Gibson, Ph.D., UCLA
- Beth Mitchneck, Ph.D., Columbia
- Janice J. Monk, Ph.D., Illinois
- Gordon Mulligan, Ph.D., British Columbia
- Richard W. Reeves, Ph.D., UCLA
- Thomas F. Saarinen, Ph.D., Chicago
- Marvin Waterstone, Ph.D., Rutgers
- Stephen Yool, Ph.D., UC Santa Barbara
- AFFILIATED FACULTY:**
- Brown, Heidi, Ph.D., Yale University, 2007, Assistant Professor — Epidemiology and Biostatistics Division- vector-borne disease, spatial epidemiology and climate change and health
- Bonnie G. Colby, Ph.D., Wisconsin, 1983, Professor, Agriculture and Resource Economics — water, public lands, energy and environmental economics
- Benedict Colombi, Ph.D., Washington State University, 2007, Professor — American Indian Studies
- Crimmins, Michael, Ph.D., University of Arizona, 2004, Associate Professor, Climate Science Extension Specialist, Soil, Water and Environmental Science — climate science support, resource management, drought monitoring and drought preparedness
- Gregg Garfin, Ph.D., Arizona, 1998, Director of Science Translation and Outreach, Institute of the Environment — climate change, adaptation, climate impacts, drought, outreach, US-Mexico

Katherine K. Hirschboeck, Ph.D., Arizona, 1985, Associate Professor, Laboratory of Tree-Ring Research — hydroclimatology, hydrology, synoptic climatology, climate variability, dendroclimatology

Vance T. Holliday, Ph.D., Colorado, 1982, Professor of Anthropology and Geosciences — geoarchaeology, Paleoindian archaeology, soil-geomorphology, Quaternary landscape evolution, Great Plains and the Southwest

Laura E. Huntoon, Ph.D., University of Pennsylvania, 1991, Associate Professor, Planning Degree Program — urban and regional planning

Charles F. Hutchinson, Ph.D., UC, Riverside, 1978, Professor, Arid Lands Studies — remote sensing, physical, arid lands

Kathy Jacobs, Ph.D., University of California, Berkeley, 1981, Professor and Director of Arizona Water Institute — climate adaptation, water management issues, water sustainability, water policy, connecting science and decision-making, stakeholder engagement and drought planning

Miranda Joseph, Ph.D., Stanford, 1995, Professor and Director of Graduate Studies, Gender and Women's Studies — Marxist theory, poststructuralist theory, queer theory, feminist theory, cultural studies

Stuart E. Marsh, Ph.D., Stanford, 1979, Professor, Geography and School of Natural Resources and the Environment, Chair Arid Lands Resource Sciences Interdisciplinary Ph.D. Program, Director, Arizona Remote Sensing Center — environmental remote sensing, land-use land cover change, computer applications

Sharon B. Megdal, Ph.D. Princeton, 1981, Professor, Dept. of Agriculture and Resource Economics and Department of Soil, Water and Environmental Science — water policy and management, public policy

Gary P. Nabhan, Ph.D., Arizona, 1983, Research Social Scientist, Southwest Center and School of Geography and Development — food geography, political ecology, sustainable agriculture and fisheries, biodiversity conservation, ethno botany, conservation sociology/reconciliation ecology, local food systems

Jon Pelletier, Ph.D., Cornell, 1997, Associate Professor, Geosciences — landscape processes, fluvial and aeolian geomorphology

Linda Samuels, Ph.D., UCLA, 2012, Project Director, Sustainable City Project — urban planning, infrastructure as public space, architecture

Edella Schlager, Ph.D., Indiana University, 1990, Professor and Director of PhD Studies — comparative institutional analysis, common pool resource theory, water law/policy/politics in the western US

Paul R. Sheppard, Ph.D., Arizona, 1995, Associate Professor, Laboratory of Tree-Ring Research — dendrochemistry, environmental monitoring with tree rings, dendrogeomorphology, image analysis of tree rings

Thomas W. Swetnam, Ph.D., Arizona, 1987, Professor, School of Renewable Natural Resources and Ecology and Evolutionary Biology, Director of Laboratory of Tree Ring Research — disturbance ecology, paleoclimatology, biogeography

CALIFORNIA

AMERICAN RIVER COLLEGE

EARTH SCIENCES DEPARTMENT (Geography and Geology)

DATE FOUNDED: 1970

DEGREES OFFERED: A.S. in Geography, A.A. for

Transfer in Geography, A.S. and Certificate in GIS

GRANTED: approx. 30 per year including GIS

MAJORS: approx. 20

HEAD: Hugh Howard, Department Chair, Earth Sciences

DEPARTMENT ADMINISTRATIVE ASST: Christine DeWitt, Admin. Asst., Science Division

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Geography/GIS Program, Earth Sciences Department, American River College, 4700 College Oak Drive, Sacramento, CA 95841-4286. (916) 484-8637. Email us at: howardh@arc.losrios.edu Visit our webpage at: <http://arc.losrios.edu/earthsci>

PROGRAMS AND RESEARCH FACILITIES:

American River College offers 10 lower division thematic and regional geography courses, as well as several field courses to destinations across California. Additionally, we offer 12 introductory and advanced courses in GIS and related topics. These courses are supported by two 30-station state of the art PC labs running the latest ESRI software and associated extensions.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: American River College is a community college open to all residents who are high school graduates or who are at least 18 years of age and able to profit from the instruction offered. Financial aid is available.

TENURED FACULTY:

John Aubert, M.A. UC Davis — Physical, Cultural, field courses
Hugh Howard, Ph.D. University of Kansas — GIS, Physical
Glenn Jaecks, Ph.D. UC Davis — Physical and Historical Geology, Oceanography, Paleontology, field courses
Melissa (Lisa) Levy, M.A. East Tennessee State University — Geology, Earth Science, Weather and Climate, field courses
Charles Thomsen, M.A. CSU Chico — Physical, Cultural, field courses

ADJUNCT FACULTY: (5+ years)

Robert Earle, M.A. SF State University — GIS, Database
Nathan Jennings, M.S., University of Wisconsin — GIS, Remote Sensing
Tom Lupo, M.A. SF State University — GIS, Applications
Marius Petraru, Ph.D. Jagellonian University — Physical, Cultural
Ronnie Richards, M.S. Sacramento State University — GIS, Database
Paul Veisze, M.S. UC Berkeley — GIS, Data Acquisition
Michael Winter, M.A. University of Kansas — Physical

EMERITUS FACULTY:

Robert Christopherson, M.A. Miami University Ohio — Physical, Cultural
Phil Renner, M.A. University of Oregon — Physical

CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA

DEPARTMENT OF GEOGRAPHY AND ANTHROPOLOGY

DATE FOUNDED: 1973

DEGREES OFFERED: B.S.

GRANTED 9/1/17-8/31/18: 20 Bachelors

MAJORS: 50

CHAIR: Kristen Conway-Gómez

GEOGRAPHY PROGRAM COORDINATOR: Kristen
Conway-Gómez

DEPARTMENT ADMINISTRATIVE ASST: Remi Burton

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chair, Department of Geography and Anthropology, California
State Polytechnic University, 3801 W. Temple Ave., Pomona,
California 91768. Telephone (909) 869-3569. Fax (909) 869-3586.

E-mail: kconwaygomez@cpp.edu

WEB: <http://www.cpp.edu/~class/geography-anthropology/>

PROGRAMS AND RESEARCH FACILITIES: Geography is in the Department of Geography and Anthropology at Cal Poly Pomona. There are three undergraduate geography major options in the department: Environmental Studies Option, Geospatial Analysis Option, Geographic Studies Option. The core of the B.S. program emphasizes the cutting edge of technical and applied perspectives of the discipline balanced by a wide range of physical, human, and regional geography courses. The program is supported by department, college, and university level computer labs with various platforms and state of the art hardware and software. Faculty and students are increasingly involved in GIS and applied research, and contribute extensively to the College and University's effort to become a GIS literate campus.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The semester system is used. Cal Poly Pomona offers a variety of financial aid programs through the Financial Aid office. The department also offers scholarships for geography and other majors in the department. For further information, contact the department office.

FACULTY:

Kristen Conway-Gómez, Ph.D., University of Florida, 2004, Professor — Latin America, biogeography, human geography, geographic information systems, natural resource conservation

Kyung In Huh, Ph.D., Ohio State University, 2014, Assistant Professor — tropical mountain glaciology / geography, global climate change, water resources in Latin America, airborne and spaceborne remote sensing, GIScience and GPS mapping.

Michael Reibel, Ph.D., UCLA, 1997, Professor — urban, economic, ethnic geography, demography, business and demographic applications in GIS

Lin Wu, Ph.D., UCLA, 1995, Professor — climatology, geographic information systems, environmental modeling, cartography, physical geography, California, Asia

Terence G. Young, Ph.D., UCLA, 1991, Professor — environmental, historical, designed landscapes, recreation, travel, North America

ADJUNCT FACULTY:

Nurudeen Alao, Ph.D., Northwestern University, 1970, — cultural, physical, California

Jason Ambacher, MA, Cal State Fullerton, 2015 — cultural, world regional

Jennifer Bjerke, MA, Rutgers, 2012 — physical, cultural
Matthew V. Ebner, MA, UCLA, 1986 — cultural, physical, California, Latin America, Asia, Africa, Europe

Rudolph Headley-El, MS, Cal State Long Beach, 2017 — Intro GIS, Field geography, Physical

Richard S. Hyslop, J.D., Ph.D., UC Riverside, 1990, Professor emeritus/lecturer — legal, hazards, and emergency management, environmental law, California, US, Canada

Jeanne Marshall, MA, Cal State Fullerton, 1998 — cultural, California

Lorne Platt, Ph.D.

Nikita Prajapati, MA, Cal State Long Beach, 2016 — cultural, physical, world regional, California

Stephen H Sandlin, Ph.D., UC-Riverside, 1997 — cultural, physical, world regional, California

CALIFORNIA STATE UNIVERSITY, CHICO

DEPARTMENT OF GEOGRAPHY AND PLANNING

DATE FOUNDED: 1964

DEGREES OFFERED: B.A. in Geography with options in Human Geography and Planning; and Physical and Environmental Geography

CERTIFICATES OFFERED: Certificate in Geospatial Technology; Certificate in Land Use & Environmental Planning

MINORS OFFERED: Environmental Studies; Geography; Geospatial Literacy; Planning and Development

DUAL DEGREES OFFERED: Geography and Economics; Geography and History

GRANTED 9/1/17 - 8/31/18: 25 Bachelors

STUDENTS IN RESIDENCE: 75 Majors

CHAIR: Dean H.K. Fairbanks

ADMINISTRATIVE ASST: Jessie Mendoza

GIS LAB TECHNICIAN: Peter Hansen

FOR FURTHER INFORMATION CONTACT: Department of Geography and Planning, California State University, Chico, California 95929-0425 or telephone (530) 898-5285 or refer to <http://www.csuchico.edu/geop/>.

PROGRAMS AND RESEARCH FACILITIES: The 45-unit B.A. Program provides breadth in a 21-unit core, including emphasis on writing, research, and map measurement and GIS skills. The other 24 units are chosen from two options: Human Geography and Planning; and Physical and Environmental Geography. The department also offers two 21-unit certificates in Geospatial Technology and Resource Management & Land Use Planning. Geography and Planning also houses a minor in Environmental Studies and Geospatial Literacy. Geography and Planning in collaboration with two other academic departments house two formal double majors: Geography and Economics; and Geography and History.

In particular, it stresses practical field experience and training in land use, environmental planning and development in urban and rural areas. Field studies in the region and internships with local government and private agencies are important elements of the program. The mountain and valley counties and towns of the University's Northern California service region are an excellent laboratory for the undergraduate options in planning. The University's two nature reserves are co-managed by department faculty and are an excellent laboratory for the undergraduate option in physical and environmental geography.

The department offers comprehensive computer facilities and field equipment for undergraduate study. These include an extensive collection of digital geographic information and imagery, and technical field equipment; a physical geography laboratory; a multi-purpose 30 seat GIS, cartography, remote sensing and statistical analysis computer laboratory; a multi-media outfitted group project geography lounge; multi-media seminar room; access to University ecological preserves (Big Chico Creek Ecological Reserve); and an outdoor classroom for restoration ecology in the Butte Creek preserve.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University academic calendar consists of fall and spring semesters and some summer session.

A range of eight-ten scholarships are available to undergraduate students based on GPA, merit and need. Student interns are often hired for CSU Chico Research Foundation contract projects at the Geographical Information Center and Center for Economic Development on a competitive basis. Internships are also available from surrounding cities, county, state, and federal agencies, and in private business as well as non-profit organizations.

FACULTY:

Scott Brady, Ph.D., Louisiana State University, 1996, Professor — cultural geography, geographic education, Mexico & Central America

Jacquelyn R. Chase, Ph.D., UCLA, 1993, Professor — rural planning & development, gender, urban-rural relations, economic geography, Latin America, Brazil

Dean H.K. Fairbanks, Ph.D., University of Pretoria, South Africa, 2001, Professor — landscape ecology, GIS/remote sensing, political ecology, environmental planning, spatial statistics, California, Europe, Southern Africa, South Africa

Don L. Hankins, Ph.D., UC Davis, 2005, Professor — fire ecology and management, water resources, restoration ecology, indigenous peoples geography, Australia

LaDona G. Knigge, Ph.D., SUNY-Buffalo, 2006, Associate Professor — urban geography, community planning, qualitative research, critical GIS

Naomi W. Lazarus, Ph.D., University of Connecticut, 2014, Assistant Professor — GIS, cartography/geovisualization, web-GIS, statistical methods, hazards geography, human geography

Eugenie Rovai, Ph.D., Clark University, 1991, Professor — hazards, water resources, cartography

Noriyuki Sato, Ph.D., Indiana University, 2007, Associate Professor — climatology, climate change, transportation, quantitative methods, remote sensing

Mark Stemen, Ph.D., University of Iowa, 1999, Professor — environmental studies, sustainability issues, environmental education, historical geography of the US

ADJUNCT:

Owen Bettis, M.A., CSU, Chico, 2012 — physical geography

Steven Herman, M.A., University of North Carolina, 1982 — geographic education, California geography, American West

Jeremy Miller, M.S., Antioch Univ., 1999 — sustainability issues, physical geography

Ryan Miller, M.A., Univ. of Washington, 2014 — urban Planning, GIS

Robert Pierce, M.A., CSU, Chico, 2003 — physical geography

Steven Stewart, M.A., CSU, Chico, 1996 — GIS, cartography, geographic education

Claudia Stuart, M.L.A., UC Berkeley, 1992 — rural land use planning, environmental impact, CEQA/NEPA

EMERITI:

Richard L. Haiman, Ph.D., UCLA, 1973, Professor

Donald G. Holtgrieve, Ph.D., Oregon, 1973, Professor

Ladd Johnson, Ph.D., UCLA, 1964, Professor

Guy Q. King, Ph.D., University of Utah, 1982, Professor

Ralph Meuter, Ph.D., University of Oklahoma, Professor

Edward L. Myles, Ph.D., Michigan State, 1973, Professor

Susan Place, Ph.D., UCLA, 1991, Professor

Frank Seawall, Ph.D., Pennsylvania State University, Professor

Jerry R. Williams, Ph.D., Florida, 1969, Professor

CALIFORNIA STATE UNIVERSITY, FULLERTON

DEPARTMENT OF GEOGRAPHY & the ENVIRONMENT

DATE FOUNDED: 1959

GRADUATE PROGRAM FOUNDED: 1967

DEGREES OFFERED: B.A., M.A.

GRANTED 9/1/16-8/31/17: 25 Bachelors, 6 Masters

STUDENTS IN RESIDENCE: 64 Majors, 23 Masters

CHAIR: Mark H. Drayse

DEPARTMENT ADMINISTRATIVE ASST: Kim Bette

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Undergraduate Advisor or Graduate Advisor, Department of Geography, 800 N. State College Blvd., California State University, Fullerton, California 92834. Telephone (657) 278-3161. Fax (657) 278-5223. Internet: <http://geography.fullerton.edu>.

PROGRAMS AND RESEARCH FACILITIES:

The department offers courses of study leading to both the Bachelor and Master of Arts degrees. We provide students with a well-rounded education that bridges the social and natural sciences and provides geotechnical training. Students take courses in human, environmental, and physical geography. In addition, we offer applied courses in geographic information systems (GIS), remote sensing, and urban planning. The Geography degree prepares students for different career paths, including education, environmental analysis, government, planning, and resource management and conservation. We prepare students for critical challenges of the 21st century by promoting global understanding and environmental stewardship.

Our well-equipped Geographic Information Systems laboratory includes a dedicated 30-station microcomputer lab to support instruction and research. The Department also houses a NASA-supported Center for Remote Sensing and Environmental Analysis. The new Cal-Dendro Lab supports research using tree-ring analysis. Students can receive certificates in Geographic Information Systems and Geospatial Technologies. Internship, independent study, and study abroad opportunities are available.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Semester system. The department offers two undergraduate major options: the B.A. in Geography and the B.A. in Geography with an Emphasis in Environmental Analysis. Each requires successful completion of 42 semester units of geography. All students must complete a 15-unit geography core. The major requires breadth units in regional, physical, environmental, and human geography, and senior-level classes in advanced and geotechnical geography. Please contact the Office of Admissions to apply.

GRADUATE: The M.A. program calls for completion of 30 semester units. Students complete a thesis or take comprehensive written exams. Students take required seminars in geographic research and writing, human geography, and physical geography. Graduate assistantships are available.

FACULTY:

John C. Carroll, Ph.D., Oregon, 1995, Associate Professor — environmental hazards, GIS, North America

Dydia DeLyser, Ph.D., Syracuse, 1998, Associate Professor — cultural, historical, and feminist geography; qualitative methods
Mark H. Drayse, Ph.D., UCLA, 1997, Professor and Chair — regional development, natural resources, Africa, North America
Trevis Matheus, Ph.D., Indiana, 2017, Assistant Professor — meteorology, climate change, dendrochronology
Zia Salim, Ph.D., San Diego State and U.C. Santa Barbara, 2014, Assistant Professor — urban and social geography, housing, migration, cultural landscapes
Jonathan Taylor, Ph.D., Kentucky, 2000, Professor — political ecology, Japan
Robert Voeks, Ph.D., U.C. Berkeley, 1987, Professor — ethnobotany, Brazil, African diaspora
Lei Xu, Ph.D., McMaster, 2007, Associate Professor — population and migration, Asia
Jindong Wu, Ph.D. Minnesota, 2006, Associate Professor — environmental remote sensing, climate change, ecosystem ecology

CALIFORNIA STATE UNIVERSITY, LONG BEACH

GEOGRAPHY DEPARTMENT

DEGREES OFFERED: Bachelors, Post-Baccalaureate Certificate, Masters (M.A. and M.S.)

CHAIR: Dr. Paul Laris

UNDERGRADUATE/CERTIFICATE ADVISOR: Mr. Austin Beahm

DIRECTOR, MGSci MASTERS PROGRAM: Dr. Suzanne Wechsler

GRADUATE ADVISOR, MA PROGRAM: Dr. Suzanne Dallman

ADDRESS: 1250 Bellflower Blvd., PH1-210, Long Beach, CA 90840.

DEPT. WEBSITE: <http://www.cla.csulb.edu/departments/geography/>
MSGISci WEBSITE: <http://www.BeachGIS.com>

FINANCIAL AID WEBSITE: <http://www.csulb.edu/financial-aid>

DISCIPLINES: Environmental Geography, Physical Geography, Geospatial Science, Human Geography, Urban Studies, Global Studies

FACULTY SPECIALIZATIONS: Africa, Biogeography, Cartography, Climatology, Coastal Geomorphology, Conservation, Cultural and Political Ecology, Cultural Geography, Economic Geography, Environmental Geography, Ethnography, Europe, Expatriate Migration, Feminist Geography, Geographic Data Quality, Geographic Education, Geography of Religion, Geospatial Information Science, Geovisualization, Globalization, Restructuring and Community Development, Historical Geography, Human Geography

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE

GEOGRAPHY AND ENVIRONMENTAL STUDIES

DATE FOUNDED: 1960

GRADUATE PROGRAM FOUNDED: 1960

DEGREES OFFERED: B.A., M.A.

GRANTED 2016-2017: 51 Bachelors, 13 Masters

STUDENTS IN RESIDENCE: 110 Majors, 33 Masters

CHAIR: Edward Jackiewicz

DEPARTMENT ADMINISTRATIVE COOR: Judith Gomez

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Edward Jackiewicz, Chair, California State University, Northridge, Northridge, California 91330-8249. Telephone (818) 677-3532. Fax (818) 677-2723. E-mail: geography@csun.edu. Internet: <https://www.csun.edu/social-behavioral-sciences/geography-environmental-studies>

PROGRAMS AND RESEARCH FACILITIES: The geography degree program allows for flexibility in course selection while providing a solid background in human, environmental, and physical aspects of the discipline including a newly created water resources curriculum. The major features a strong technical component based on applications of geographic information systems (GIS), cartography, and remote sensing, along with training in geographical analysis and data presentation. The department offers a certificate in GIS. The MA is offered with two options: standard program or GIS specialization. Department research facilities include GIS cartographic laboratories, fourteen weather stations throughout California, environmental and physical monitoring equipment available for student research, Sanborn map library (depository for maps of cities west of the Mississippi River-145,000 plates), and a research map library (400,000 flat maps, 5,000 air photographs).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Admission to graduate program with a cumulative undergraduate GPA of at least 3.0, or an acceptable GRE score and a GPA of at least 2.75 in the last 60 units attempted.

FACULTY:

Sanchayeeta Adhikari, Ph.D., Univ. of Florida, 2011 Assistant Professor — Human-environment geography, remote sensing, & GIS, protected areas, South Asia
Soheil Boroushaki, Ph.D., UWO, 2010 Associate Professor — GIS, Multi-criteria decision analysis, location theory and analysis, spatial decision support systems
Erin N. Bray, Ph.D., UCSB, 2013, Assistant Professor — hydrologic science, river systems, fluvial geomorphology
James W. Craine, Ph.D., SDSU, 2006, Professor — media geography, cultural geography, geo-visualization
Ronald A. Davidson, Ph.D., UCLA, 2003, Professor — public space, teacher education, narrative and geography, regional geography
Mario Giraldo, Ph.D. Georgia 2007, Associate Professor — Sustainability, biogeography, GIS, remote sensing applications, mountain agriculture, water resources
Luke P. Drake, Ph.D., Rutgers University, 2015, Assistant Professor — Urban/economic, political ecology, GIS, qualitative methods
Steven M. Graves, Ph.D., Illinois, 1999, Professor — pop culture, social, urban/economic, geography education
Edward L. Jackiewicz, Ph.D., Indiana, 1998 Professor — third world development, Latin America and the Caribbean, urban
Julie E. Lairy, Ph.D., UCLA, 1982, Professor — climatology, geomorphology

Regan M. Maas Ph.D., UCLA, 2010, Associate Professor — Health/Medical Geography, Spatial Demography, Urban Geography, GIS

Amalie Jo Orme, Ph.D., UCLA, 1983, Professor — coastal and fluvial geomorphology, Quaternary studies

Yifei Sun, Ph.D., SUNY at Buffalo, 2000, Professor — GIS, urban/economic, spatial statistics, China

EMERITI FACULTY:

James P. Allen, Ph.D., Syracuse, 1970, Professor — cultural, social population, Anglo-America

Warren R. Bland, Ph.D., Indiana, 1970, Professor — economic, transportation, manufacturing, Canada

William A. Bowen, Ph.D., Berkeley, 1972, Professor — historical, physical, California, computer cartography

Robert Gohstand, Ph.D., UC, Berkeley, 1973, Professor — Soviet Union, cartography

David Hornbeck, Jr., Ph.D., Nebraska, 1974, Professor — historical, Southwest U.S., California, economic, applied geography

Robert B. Howard, Ph.D., UCLA, 1974, Professor — geomorphology

Antonia Hussey, Ph.D., Hawaii, 1986, Professor — Southeast Asia, economic development, China, tourism

Phillip S. Kane, Ph.D., UC, Berkeley, 1975, Professor — geomorphology

Gong-Yuh Lin, Ph.D., Hawaii, 1974, Professor — meteorology, climatology

C. Gary Lobb, Ph.D., UC, Berkeley, 1970, Professor — cultural, tropical ecology, Latin America

Elliot G. McIntire, Ph.D., Oregon, 1968, Professor — cultural, conservation, biogeography

Eugene J. Turner, Ph.D., Washington, 1977, Professor — cartography, computer applications, GIS

Ralph D. Vicerio, Ph.D., Wisconsin, 1968, Professor — historical Anglo-America

I-Show Wang, Ph.D., Minnesota, 1971, Professor — population, East Asia

support GIS, cartography, and remote sensing, and a paleoecology lab. The University Library houses an extensive collection of books, atlases, maps, and journals in support of geography.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Application for admission to the program is made to the Admissions Office of the University. Departmental and university-wide scholarships, grants, and student aid are available.

FACULTY:

Robin E. Datel, Ph.D., Minnesota, 1983, Professor — geography of the Sacramento region, historic preservation, urban historical geography, urban social geography

Marsha J. Dillon, Ph.D., UC, Berkeley, 1976, Professor — natural resources, population change, economic structure, political cohesion

Bruce Gervais, Ph.D., UCLA, 2001, Professor — biogeography, climatology, paleoecology, sustainability

Thomas S. Krabacher, Ph.D., UC, Davis, 1990, Professor — cultural ecology, economic development, landscapes, environmental history

Anna Klimaszewski-Patterson, Ph.D., University of Nevada, Reno, 2016, Assistant Professor — Paleocology/Landscape Archaeology, Landscape Modeling, Geovisualization, Augmented/Virtual Reality and Internet of Things (IoT), GIScience, Applied Geography

Miles R. Roberts, Ph.D., University of South Carolina, 1990, Professor — geomorphology, biogeography, ecology, spatial statistics

Michael Schmandt, Ph.D., Arizona State University, 1995, Professor — urban planning, geographic techniques, food, applied geography, transportation patterns, California (Central Valley), field geography

Mathew C. Schmidlein, Ph.D., University of South Carolina, 2008, Associate Professor — environmental hazards and vulnerability, GIScience, human geography, public health

James Wanket, Ph.D., UC, Berkeley, 2002, Professor — quaternary studies, climate, biogeography, geomorphology, California

EMERITUS FACULTY:

Michael D. Fitzwater, Ph.D., UC, Davis, 1981, Professor — physical, meteorology, plant ecology, soil science, air pollution meteorology/climatology

Robert M. Phillips, Jr., Ph.D., UCLA, 1974, Professor — physical, suburban/rural field study, food and hunger, agriculture, Africa, Southeast Asia, human impact on global ecosystems

Tim S. Hallinan, M.A., UC, Berkeley, 1969, Professor — cultural, Latin America, urban/urban field study, landscape, population, geography of religions

Robert T. Richardson, Ph.D., Oregon, 1973, Professor — physical, climate, geomorphology, map and air photo interpretation, cartography, remote sensing, GIS

CALIFORNIA STATE UNIVERSITY, SACRAMENTO

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1954

DEGREE OFFERED: B.A.

GRANTED 8/28/17-5/11/18: 40 Bachelors

MAJORS: 120

CHAIR: Thomas Krabacher

DEPARTMENT ADMINISTRATIVE SUPPORT

COORDINATOR: Lori Phillips

FOR CATALOG AND FURTHER INFORMATION, WRITE

TO: Department of Geography, California State University, Sacramento, 6000 J Street, Sacramento, California 95819-6003. Telephone (916) 278-6109, Fax (916) 278-7584. E-mail: TSK@csus.edu. Internet: <http://www.csus.edu/geog/>

PROGRAMS AND RESEARCH FACILITIES: The department offers the major with concentrations in physical geography, human geography, GIS and analysis, and metropolitan area planning. Through lab and field courses, students become well acquainted with each other and with the faculty. Internships, principally with public agencies, provide an excellent opportunity for interested majors to expand their training to the work place. Location in Sacramento provides field courses access to a great range of resources in physical, urban, and rural geography. Students have opportunities to work closely with faculty on field-, lab-, and archival-based research, including senior capstone projects. Facilities include computer labs to

CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL STUDIES

DATE FOUNDED: 1971

DEGREE OFFERED: Geography: B.A. Geography B.A.
Global Studies; Environmental Studies: B.A.

GRANTED 9/1/16-6/20/17: Geography: 5 Bachelors; Global
Studies: 3 Bachelors; Environmental Studies: 20
Bachelors

MAJORS: Geography: 29 Environmental Studies: 85

CHAIR: Kevin Grisham

DEPARTMENT ADMINISTRATIVE SUPPORT

COORDINATOR: Patricia Massei

FOR FURTHER INFORMATION WRITE TO: Professor Kevin Grisham, Department of Geography and Environmental Studies, California State University, San Bernardino, 5500 University Parkway, San Bernardino, California 92407-2397. Telephone (909) 537-5519. Fax (909) 537-7645. E-mail: kgrisham@csusb.edu; pmassei@csusb.edu; or www.geog.csusb.edu.

PROGRAMS AND RESEARCH FACILITIES: The department offers geography majors a broad undergraduate background that integrates physical and human topics while providing choice flexibility within these categories. The geography major has two options; general geography and global studies. For global studies, a major would learn about the characteristics and consequences of globalization from an international perspective. The department also administers an interdisciplinary Environmental Studies major program and certificate program in Geographic Information Systems. Internships with local public and private agencies are encouraged, as are independent studies. Graduates typically find employment within southern California in public and private planning firms, California Department of Transportation, U.S. Forest Service, as well as attending graduate school. All faculty members maintain active research programs that include development of geographic information systems, planning issues such as water resources or affordable housing, and other spatial research.

The Geography Department maintains Cartography, GIS, and Spatial Analysis Lab with 25 computers with 21" displays, two servers, color laser printers, an XGA projection system, and the entire suite of ESRI products. The 100 MBLAN has a 1 Gb backbone connection to the core and an OC-3 connection to the Internet. We also have 30 handheld GPS receivers, an RTK-grade GPS receiver, a laser rangefinder with internal compass and clinometer, and 10 ruggedized field computer with PenMap software. The lab is funded by a variety of grants and cooperative agreements, including some from the National Science Foundation, the Federal Geographic Data Committee, the EPA, and the USDA. The lab serves as a data repository for the CSUSB Water Resources Institute and the San Bernardino Regional Data Clearinghouse.

FACULTY:

Jennifer Alford, Ph.D., University North Carolina Greensboro, 2014, Assistant Professor — environmental geography; water resources; natural resources management and policy; geospatial analysis

Brett Goforth, Ph.D., UC, Riverside, 2009, Assistant Professor — biogeography, weather & climate, map interpretation

Kevin Grisham, Ph.D., UC, Riverside, 2009, Associate Professor — Model United Nations and Model Arab League programs; geopolitics

Rajrani Kalra, Ph.D., Kent State University, 2007, Associate Professor — urban information systems, urban and economic

geography, geospatial techniques, South Asia, globalization and developing countries

Michal Kohout, Ph.D., Clark University, Associate Professor — United States-Mexico borderlands, labor standards, Europe

Norman Meek, Ph.D., UCLA, 1990, Professor — geomorphology, military geography, Quaternary studies, climate change

Bo Xu, Ph.D., University of Georgia at Athens, 2008, Associate Professor — GIS, remote sensing

EMERITI FACULTY:

Andrew Bodman, Ph.D., The Ohio State University, 1978, former Provost and Vice President for Academic Affairs — economic geography

Jeffrey D. Hackel, Ph.D., UC, Riverside, 1988, Professor Emeritus — conservation and resources, Africa, biogeography, geographic research methods

Theodore R. McDowell, Ph.D., Oregon State, 1980, Professor Emeritus — water resources, climate, conservation, remote sensing, natural hazards

James L. Mulvihill, Ph.D., Michigan State, 1976, Professor Emeritus — urban planning, urban, economic, Latin America

Richard H. Rowland, Ph.D. Columbia, 1971, Professor Emeritus — former and post-Soviet Union, population, California

CALIFORNIA STATE UNIVERSITY, STANISLAUS

DEPARTMENT OF ANTHROPOLOGY, GEOGRAPHY, & ETHNIC STUDIES

DEGREES OFFERED: B.A. in Geography

MAJORS: 34 Geography

MINORS: 6 Geography

DEGREES GRANTED: 2 B.A.

DEPARTMENT CHAIR: Peggy Hauselt

PROGRAM DIRECTOR: Peggy Hauselt

ADMINISTRATIVE COORDINATOR: Susan Helm-Lauber

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Geography, California State University, Stanislaus, One University Circle, Turlock, California 95382. Telephone (209) 667-3127. E-mail: PHauselt@csustan.edu. Internet: www.csustan.edu/geography/

PROGRAMS AND FACILITIES: The program offers students a broad education in Geography and the opportunity to work in some exciting projects and laboratories including the GIS Lab and the Bio-Ag Center (an outdoor lab for environmental planning, sustainable techniques and soils). We provide a unique opportunity to study abroad, as well as service learning opportunities and internships that engage students with local communities. We also direct the Master of Science in Interdisciplinary Studies – Geospatial Concentration. The Department strongly supports and encourages field and international educational experiences.

ACADEMIC PLAN AND ADMISSION REQUIREMENTS: The department offers a major and minor in Geography. Geography majors select a concentration in the major from the following options: 1) Cultural/Social Geography, 2) Physical Geography/Environmental Studies, 3) Geospatial Technology, 4) Globalization & Development and 5) California Studies. The department also offers concentrations for Liberal Studies and Social Science majors and a minor in Environmental and Resource Studies. A major goal of the department is to provide students with meaningful knowledge of the world's cultures and its physical settings as well as to understand the interactions that result. Majors are expected to take various human,

physical, regional, methodology, field and technique courses to fulfill the requirements for the major.

FACULTY:

Augustine Avwunudiogba, Ph.D., Univ of Texas, Austin, 2011, Associate Professor — Physical Geography, Geomorphology, GIS, Remote Sensing, Mexico, Africa

José R. Díaz Garayúa, Ph.D., Kent State Univ, 2008, Assistant Professor — Human Geography, Community GIS, Race, Ethnicity, Place, Latin America

Peggy Hauselt, Ph.D., UC Davis, 2007, Associate Professor — Environmental, Agricultural, Biogeography, GIS

Alison McNally, Ph.D., UC Davis, 2014, Assistant Professor — Environmental, Biogeography, GIS, Water, California

ADJUNCT FACULTY:

Chuck Bowen, M.A., Univ of Georgia, 1967 — Weather & Climatology, Environmental Science, Latin America

Richard Eigenheer, Ph.D., UC Davis, 1976 — Historical, Cultural, US/Canada, California

Cece Hudelson, M.Sc., London School of Economics, 1990 — Economic, Cultural, East Asia, Sub-Saharan Africa

Catherine Garoupa White, Ph.D., UC Davis, 2016 --- Environmental Justice, Ethics, Applied Geography

AFFILIATED FACULTY:

Jennifer Helzer, Ph.D., Univ of Texas, Austin, 1998, Professor — Cultural, Historical, Urban, North America, Europe, California

EMERITI FACULTY:

Melvin H. Aamodt, Ph.D. Indiana University, 1968

Ida Bowers, Ph.D. University of Hawaii, 1973

Eric Karlstrom, Ph.D., University Calgary, 1981,

Leon S. Pitman, Ph.D. Louisiana State University, 1973

COSUMNES RIVER COLLEGE

DEPARTMENT OF SCIENCE, MATH & ENGINEERING

DATE FOUNDED: 1970

DEGREES OFFERED: A.S. in Geography, A.S. in Environmental Studies & Sustainability, GIS Certificate

MAJORS: approx. 15

HEAD: Debra A. Sharkey

DEPARTMENT ADMINISTRATIVE ASST: Cindy Petty

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Cosumnes River College, Department of Geography, 8401 Center Parkway, Sacramento, CA 95823-5799, (916-691-7210), www.crc.losrios.edu.

PROGRAMS: Cosumnes River College offers 13 lower division courses in Geography including field study courses to Yosemite National Park, the Eastern Sierra and the California coast. In addition, the program offers two transferable A.S. degrees (Geography and Environmental Studies) and a professional GIS certificate.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Any person 18 years or older can apply to Cosumnes River College for admission. Financial aid is available.

FACULTY:

Scott Crosier, M.A., UC Santa Barbara, Professor — Geographic Information Systems (GIS), Physical Geography, Geography of California, Field Studies

Richard Davis, M.A., San Francisco State University, Adjunct Professor — Physical Geography, World Regional Geography
John Rusmore, Ph.D., UC Davis, Adjunct Professor — Physical Geography

Debra Sharkey, M.A., UC Davis, Professor — Cultural Geography, Physical Geography, Environmental Studies, Field Studies, Weather and Climate, World Regional Geography

EAST LOS ANGELES COLLEGE

DEPARTMENT OF ANTHROPOLOGY, GEOGRAPHY, GEOLOGY

DATE FOUNDED: (1949)

DEGREES OFFERED: Associate in Arts in Geography for Transfer (AA-T): Associate in Arts in Environmental Studies: Physical Sciences (AA)

FOR FURTHER INFORMATION CONTACT: Dr. Stephen Koletty, Department of Anthropology, Geography, Geology, East Los Angeles College, 1301 Avenida Cesar Chavez, Monterey Park, California 91754-6099. Telephone: (310) 367-2115. E-mail: kolettsr@elac.edu

COURSES OFFERED: Physical Geography, Physical Geography Laboratory, Cultural Elements of Geography, Introduction to Weather and Climate, World Regional Geography, Geography of California, Global Climate Change, Introduction to Geographic Information Systems, GIS Applications

PROGRAM: The Associate of Arts in Geography for Transfer Degree is designed for students wishing to pursue a Bachelors degree in Geography at a California State University. The degree provides students with a comprehensive set of courses designed to maximize their success as they pursue a degree and subsequent career in Geography or a related field. The major provides students with a comprehensive understanding and appreciation for the complex linkages between the geosphere, the atmosphere, the hydrosphere, and the biosphere, and the manner in which Earth's different landscapes are formed. Students also study the geographic character of human society and activities, and aspects of globalization in contemporary life. Students are trained to analyze and interpret geographic patterns using maps, graphs, Geographic Information Systems and other analytic tools commonly employed by geographers to interpret our world. The required courses help students hone skills in spatial thinking, geographic analysis, landscape interpretation, and field research. These courses have been selected to fulfill the lower division requirements for Geography majors in the California State University, and prepare them for success in upper division courses in Geography.

FACULTY:

Stephen Koletty, Ph.D., University of Southern California
Tiffany Seeley, M.A., California State University, Fullerton

ESRI

DATE FOUNDED: 1969

PRESIDENT: Jack Dangermond

FOR FURTHER INFORMATION ABOUT CAREER OPPORTUNITIES AND APPLICATION PROCEDURES, CONTACT: Human Resources, Esri, 380 New York Street, Redlands, California 92373-8100; telephone: 909-793-2853; e-mail: jobs@esri.com; World Wide Web: www.esri.com/careers

Esri is the world's leading provider of geographic information systems (GIS) software. Jack and Laura Dangermond founded the company in 1969 as an urban and landscape design consultancy. Their small team applied early computer mapping and analysis methods pioneered at Harvard's Laboratory for Computer Graphics, where Jack was a graduate student. Over time, Esri evolved into a software and services company, building upon the geographic information science and technologies developed in academia and industry since the 1970s. It now employs more than 3,000 people in the U.S., and many more at over 80 international distributors. Today some 350,000 public, private and non-profit organizations around the world rely on Esri technology. Over a million GIS professionals use Esri's GIS platform - ArcGIS - to create information products used by countless more knowledge workers, decision makers, and citizen stakeholders.

The U.S. Department of Labor and various economic impact studies indicate that the GIS workforce is large and growing. Specialized education in geography is one route into this workforce. Graduates with specializations in human geography might work in teams that investigate the spatial dimensions of health, or the provision of public services, transportation planning, or commercial applications like logistics, retail site selection, or demographic analysis for marketing. Others use GIS for humanitarian work. Physical geographers may be involved in floodplain modeling, conservation biology, forestry, or energy resources discovery, processing and transmission. Others may help advance the state of the art in geographic information science and technology at startups, research organizations, or even Esri.

GIS technologies and methods continue to evolve. Learning is a way of life for GIS users. Esri is committed to supporting lifelong learners. Its support extends from teachers, pupils and "GeoMentor" volunteers in schools, to students, educators and researchers in higher education, to recent graduates who aspire to careers in GIS, to GIS professionals who seek to advance their careers, career changers looking for a better future, and even to retirees who seek to give back to their communities. Esri's offerings for lifelong learners include:

- Software donations and curriculum solutions for primary and secondary schools
- Coordination and training for GeoMentors
- Low cost access to ArcGIS for colleges and universities
- No-cost access for students and recent graduates
- Curriculum solutions for higher education
- Paid internships and conference assistantships
- Esri Press books and associated online exercises
- *ArcNews* and *ArcUser* magazines
- Web-based and instructor-led online training
- A Young Professionals Network
- Massive Open Online Courses (MOOCs), and
- Volunteer opportunities for retirees.

The goal of Esri's Lifelong Learning program is to inspire people to apply geography in amazing ways that benefit individuals, families, communities, and our changing world.

For additional information about Esri's higher education programs, Contact Esri's Higher Education team at higher@esri.com.

PALOMAR COLLEGE

DEPARTMENT OF EARTH, SPACE, AND ENVIRONMENTAL SCIENCES

DATE FOUNDED: 1946

DEGREES OFFERED: A.A. Geography; A.S. Geographic Information Systems, Certificate of Achievement, Certificate of Proficiency; A.S. Drone Technology, Certificate of Achievement, Certificate of Proficiency

CHAIR: Wing H. Cheung, PhD.

DEPARTMENT ADMINISTRATIVE ASSISTANT:
Brenda Morris

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Ms. Brenda Morris, Academic Department Assistant, Department of Earth, Space, and Environmental Sciences, Palomar College, 1140 West Mission Road, San Marcos, CA, 92069. Telephone (760) 744-1150 ext. 2512. E-Mail: bmorris@palomar.edu. Internet: <http://www.palomar.edu/earthscience/>.

PROGRAMS AND RESEARCH FACILITIES: Program includes the study of (1) physical geography, (2) human geography, (3) meteorology, (4) environmental issues, (5) geography of California, (6) geographic information science (GIS), (7) remote sensing, and (8) unmanned aircraft systems (UAS) or drones. Students may participate in regional field studies courses or direct study courses in order to concentrate in his/her chosen field and program area.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System. Financial Aid: Federal and state programs available.

FACULTY:

Wing H. Cheung, PhD, University of California-Irvine, 2017, Professor — human geography, GIS, remote sensing, environmental studies, UAS

Catherine M. Jain, MA, San Diego State University, 2000, Professor — physical geography, meteorology, environmental studies

SAN DIEGO MESA COLLEGE

SOCIAL SCIENCES DEPARTMENT

DEGREES OFFERED: A.A in Geography, A.A. for Transfer in Geography to the California State University system

FOR FURTHER INFORMATION WRITE TO: Dr. John Crocitti, Chair, Social Sciences Department, San Diego Mesa College, 7250 Mesa College Drive, San Diego, CA 92111-4998 Telephone (619) 388-2471. E-mail: jcrocitt@sdccd.edu
Internet: <http://www.sdmesa.edu/students/academic-programs/geography/>

COURSES OFFERED: Physical Geography, Physical Geography Laboratory, Cultural Geography, World Regional Geography, Introduction to Urban Geography, Independent Study

FACULTY:

Kenneth J.E. Berger, D.Env. (University of California at Los Angeles, 1982), Professor

Waverly C. Ray, Ph.D. (Texas State University – San Marcos, 2012), Assistant Professor

Mark M. Trembley, M.A., M.L.A. (University of California at Berkeley, 1970, 1975, respectively), Professor Emeritus

Christa Stutz Farano, Ph.D. (Texas State University – San Marcos, 2015), Adjunct Faculty
Barbara Batterson, M.S. (University of California at Davis, 1990), M.A., M.S. (San Diego State University, 2007, 2011, respectively), Adjunct Faculty
David Lulka, Ph.D. (San Diego State University/University of California at Santa Barbara, 2006), Adjunct Faculty
Heather Davis, M.A. (San Diego State University, 2008), Adjunct Faculty
Samuel Cortez, M.A. (San Diego State University, 2012), Adjunct Faculty

SAN DIEGO STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1914

GRADUATE PROGRAM FOUNDED: 1956

GRANTED 08/22/17-08/22/18: 36 Bachelors, 14 Masters, 5 Ph.D.

STUDENTS IN RESIDENCE: 75 Majors, 31 Masters, 18 Ph.D.

CHAIR: Piotr Jankowski

DEPARTMENT COORDINATOR: Patricia O'Leary

FOR FURTHER INFORMATION WRITE TO: Molly Costello, Undergraduate Advisor, Candra Young, Graduate Program Coordinator, Dr. Trent Biggs, Master's Program Advisor, or Dr. Fernando Bosco, Ph.D. Program Advisor, Department of Geography, San Diego State University, San Diego, California 92182-4493. Telephone (619) 594-5437. Fax (619) 594-4938. E-mail: geography@mail.sdsu.edu. Internet: geography.sdsu.edu.

PROGRAMS AND RESEARCH FACILITIES: The Department faculty is dedicated to quality teaching and scholarly research. Graduate and undergraduate students interact closely with faculty.

DOCTORAL: A Ph.D. program in geography is offered jointly with the University of California, Santa Barbara. The program offers work in the following systematic areas with supporting development of skills in spatial techniques as follows: (A) Systematic Areas: (1) Human Geography: Comparative urban structure; economic geography; social and critical theory; social and political geography; urban cultural geography; urban and regional modeling. (2) Environmental Geography: Society and environment; watershed/ecosystem analysis. (3) Physical Geography: Biogeography; climatology; hydrology and geomorphology. (B) Spatial Analytical Techniques: Remote sensing and image processing; geographic information systems; cartography and internet mapping; big data analytics, geostatistics, geocomputation and spatial modeling; spatial quantitative and qualitative methods.

MASTERS: A flexible curriculum complemented by careful advising permits the department to design a program tailored to the professional goals of each master's candidate. Students benefit from a long tradition of close faculty-student contact. The main emphases of the master's program are the systematic areas and spatial techniques listed above in the doctoral section. Graduate student internships are available. A general M.A. degree and an M.S. in Geographic Information Science or Watershed Science are both offered.

UNDERGRADUATE: The undergraduate major offers two B.A. degrees, and a B.S. degree. The B.A. degree in Applied Arts and Sciences is offered with emphasis in Foundations of Geography. The B.A. degree in Liberal Arts and Sciences consists of emphases in (a) Environment and Society, (b) Human Geography and Global Studies, (c) Integrative Geography, (d) Methods of Geographic Analysis, and (e) Urban and Regional Studies. The B.S. degree in Applied Arts and

Sciences consists of emphases in (a) Environmental and Physical Geography, and (b) Geographic information Science. The Internship Program provides opportunities for students to apply their geographic training in business, planning, and resource management situations.

GEOGRAPHIC INFORMATION SCIENCE CERTIFICATE: The certificate offers flexible program of 9 courses distributed between the departments of Geography and Computer Science. The program emphasis is on computational skills and data analytics.

FACILITIES AND EQUIPMENT: In addition to well-equipped classrooms and lecture halls, the Department has spatial processing, cartographic, qualitative methods, remote sensing/GIS, and physical geography laboratories, as well as field and photogrammetric equipment. The Center for Interdisciplinary Studies of Youth and Space (ISYS) offers qualitative and applied research opportunities for faculty and students interested in children, youth, families and communities. SDSU operates three field stations in San Diego and Riverside counties. The Center for Earth Systems Analysis Research (CESAR), the Department's specialized laboratory facility, has spatial data processing capabilities including 10 Sun workstations and servers, 55 Dell workstations and servers, 10 Apple MacPros, E-size plotters and printers, and IP/GIS/mapping software (ERDAS, ENVI, ArcGIS, ArcView, IDRISI, Overwatch Feature Analyst, Definens and BAE Systems). The Center for Human Dynamics in the Mobile Age addresses opportunities that spring from convergence of new developments in spatial science, mobile technology, big data, and social behavior research. The Center for Information Convergence and Strategy offers opportunities for transdisciplinary research and education, with particular focus on data mining and advanced visual techniques, building strategic solutions for government and private industry. The UC San Diego supercomputer center is readily accessible. Extensive field equipment includes survey and mapping quality GPS units, spectral radiometer, field spectrometers and two high-resolution airborne digital imaging systems. In addition, Love Library has a collection of over 150,000 flat maps and more than 1,000 atlases.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

DOCTORAL: This program is administered jointly by the Departments of Geography at SDSU and UCSB. Normally, the student will spend the first year at SDSU, the second at UCSB, and subsequent years at SDSU. Although there is no specified number of units, students with a master's degree in geography can expect to complete a minimum of 45 semester units (75 quarter units). Satisfactory completion of a dissertation consisting of original research of publishable quality is required. Research and teaching associateships are available on a competitive basis. Deadline for application form, statement of purpose, three letters of reference, transcripts, and GRE scores is December 15. Undergraduate GPA of at least 3.25, a graduate GPA above 3.50, and a combined (verbal and quantitative) GRE score of at least 307 (new scale) or 1100 (old scale) is expected. Both verbal and quantitative scores should exceed the 50th percentile.

MASTERS: The Master's program requires 30 semester units of coursework including the submission and defense of a thesis. Assistantships are available for qualified students on a competitive basis; deadline for applications, three letters of reference, transcripts and GRE scores is December 15. Semester system. Minimum graduate admission standards include a GPA of 3.0 on last 60 semester units of undergraduate credit, and a combined (verbal and quantitative) GRE score of at least 300 (new scale) or 1000 (old scale).

UNDERGRADUATE: For admission requirements, refer to the University General Catalog.

FACULTY:

Stuart C. Aitken, Ph.D., Western Ontario, 1985, Professor and The June Burnett Chair in Children's and Family Geographies — urban, gender, film, children, qualitative methods

Li An, Ph.D., Michigan State, 2003, Professor — landscape ecology, human-environment interactions, modeling of complex systems, statistics, GIS

Trent Biggs, Ph.D., UC Santa Barbara, 2003, Associate Professor — landuse effects on hydrology, watershed science, regional biogeochemistry, physical geography

Fernando Bosco, Ph.D., Ohio State University, 2002, Professor — urban, social movements and collective action, social and cultural theory, economic

George Christakos, Ph.D., Harvard, 1990, Professor, and The Stephen and Mary Birch Foundation Endowed Chair in Geographical Studies — statistics, geostatistics, environmental/ecological/health and mathematical modeling

Anne-Marie Debbané, Ph.D. York University, Canada, 2010, Assistant Professor — political ecology/economy, urban nature and social justice, water governance and development, geographies of socio-environmental change in South Africa

Fernando De Sales, Ph.D., UCLA, 2006, Assistant Professor — climate modeling, land-surface atmosphere interaction processes, impacts of land-use and land-cover change on climate, regional dynamic downscaling, and forecast verification methods

Kathleen A. Farley, Ph.D., Colorado, 2002, Associate Professor — environmental science and policy, land use change, ecosystem processes and services, physical geography

Piotr Jankowski, Ph.D., Washington, 1989, Professor & Chair — GIScience, spatial decision support systems, public participation GIS, visual analytics

Pascale Joassart, Ph.D., University of Southern California, 1999, Associate Professor — Economic geography, urban geography, public policy

Arielle Levine, Ph.D., UC Berkeley, 2006, Assistant Professor — coastal and marine spatial planning, community involvement in natural resource conservation and management, participatory mapping, institutional dynamics in international conservation and development

Hilary McMillan, Ph.D., Cambridge University, 2006, Associate Professor — hydrological processes, hydrological predictions, water resources, impact of humans on watershed processes, social-hydrology

Atsushi Nara, Ph.D., Arizona State University, 2011, Assistant Professor — GIScience, spatio-temporal data mining and knowledge discovery, modeling behavioral geography and social dynamics, geocomputation tool development

John F. O'Leary, Ph.D., UCLA, 1984, Professor — biogeography, physical, environmental analysis

André Skupin, Ph.D., SUNY at Buffalo, 1998, Professor — GIScience, cartography, information visualization, visual data mining

Douglas A. Stow, Ph.D., UC, Santa Barbara, 1985, Professor — remote sensing, environmental monitoring, landscape ecology

Kate Swanson, Ph.D., U. of Toronto, 2005, Associate Professor — youth identities and childhood, labor migration, indigenous peoples, urban, Latin America

Ming-Hsiang Tsou, Colorado, 2001, Professor — GIScience, Internet-based GIS applications, distributed computing, intelligent agents, user interface design

EMERITI FACULTY:

Edward Aguado, Ph.D., UCLA, Wisconsin 1983

Barbara E. Fredrich, Ph.D., UCLA, 1975

Arthur Getis, Ph.D., Washington, 1961

Ernst C. Griffin, Ph.D., Michigan State, 1972

Allen S. Hope, Ph.D., Maryland, 1986

Warren A. Johnson, Ph.D., University of Michigan, 1969

Elmer A. Keen, Ph.D. Washington, 1967

David S. McArthur, Ph.D., Louisiana State, 1969

Philip R. Pryde, Ph.D., Washington, 1969

Imre E. Quastler, Kansas, 1971

Frederick P. Stutz, Ph.D., Michigan State, 1970

John R. Weeks, Ph.D., UC, Berkeley, 1972

Richard D. Wright, Ph.D., Kansas, 1967

SAN FRANCISCO STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY & ENVIRONMENT

DATE FOUNDED: 1937

GRADUATE PROGRAM FOUNDED: 1965

DEGREES OFFERED: B.A. Geography, B.S.

Environmental Science, M.A. Geography, M.A.

Geography Concentration in Resource Management & Environmental Planning, M.S. Geographic Information Science

GRANTED 9/1/16 – 8/31/17: 41 Bachelors, 10 M.A., 2 M.S.

STUDENTS IN RESIDENCE: 220 Majors, 50 Masters

CHAIR: Jerry Davis

DEPARTMENT OFFICE COORDINATOR: Alisha Huajardo

FOR FURTHER INFORMATION WRITE TO: Nancy Wilkinson, Graduate Coordinator, Department of Geography & Environment, San Francisco State University, 1600 Holloway Avenue, San Francisco, California 94132. Telephone (415) 338-2049. Fax (415) 338-6243. E-mail: nancyw@sfsu.edu. Internet: <http://geog.sfsu.edu/>.

PROGRAMS AND RESEARCH FACILITIES: The M.A. program prepares students for careers as environmental or technical professionals working in public agencies, consulting firms or nonprofits, or for careers in academic geography. Opportunities for specialization include geographic techniques, physical geography, land use planning and human geography. A Masters Concentration in Resource Management and Environmental Planning prepares individuals for careers in environmental management, planning, monitoring and advocacy. The MS in GIScience program prepares graduate students for advanced careers in a wide range of geospatial information research and applications, including geographic information systems (GIS), remote sensing, global positioning systems (GPS), and spatial statistics. Departmental facilities include a geographic analysis teaching laboratory, GIS/Remote Sensing lab, environmental science lab, physical geography lab, map library; funded research projects are supported by the Institute for Geographic Information Science. SFSU is the California State University GIS Specialty Center.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Semester system. The major program includes four core courses; a distribution requirement of one course each in physical, human, regional and techniques/applied geography; and 3-4 upper courses in a focus of interest, for a total of 39-42 units.

GRADUATE: Semester system. Minimum of 30 units of work in geography including 5 graduate seminars (M.A.) or 2 graduate seminars and 3-4 graduate GIScience courses (M.S.), and a Masters thesis or research project. A minimum of 3-4 semesters needed for completion of coursework. Admission requirements include a GPA of 3.25 or better in last 60 units, GRE scores, Statement of Purpose and two letters of recommendation, and a B.A. or 15 undergraduate semester units in geography (or a related field for the M.S.). A student may be admitted to the program conditionally, pending completion of undergraduate prerequisite coursework with appropriate grades.

FACULTY:

- Sara Baguskas, Ph.D., UC Santa Barbara 2014, Assistant Professor --*
Terrestrial biogeography; Plant ecophysiology; Climate change;
Coastal fog; Mediterranean ecosystems; Water resource
management; Urban ecohydrology; Science education and
outreach
- Jennifer Blecha, Ph.D., Minnesota, 2007, Assistant Professor —* urban
ecology, food systems and sustainable agriculture, urban
agriculture, gender, animals
- Leonhard Blesius, Ph.D., Iowa, 2002, Associate Professor —* remote
sensing of the environment, landslide susceptibility analysis,
geomorphological hazards
- Tendai Chitewere, Ph.D., Binghamton (SUNY), 2006, Associate
Professor —* environmental anthropology, sustainable
communities, green consumerism, water resources, agriculture
- Jerry D. Davis, Ph.D., Georgia, 1987, Professor —* geomorphology,
soils, GISci, field methods, drone-based remote sensing,
watershed science & modeling
- Courtney Donovan, Ph.D., Washington, 2008, Assistant Professor —*
medical geography, women's health, immigrant health,
international health, gender
- Qian Guo, Ph.D., Tennessee, 1996, Associate Professor —* regional
geography, cultural geography, China
- Jason Henderson, Ph.D., Georgia, 2002, Professor —* land use
planning, transportation
- Ellen Hines, Ph.D., Victoria, 2002, Professor —* GISci, endangered
marine species, marine resources
- XiaoHang Liu, Ph.D., UC Santa Barbara, 2003, Associate Professor
—* GISci, remote sensing, spatial analysis, urban and
environmental modeling
- Leora Nanus, Ph.D., Colorado, 2008, Assistant Professor —*
hydrology, watershed biogeochemistry, water quality,
environmental science, GIS
- Andrew J. Oliphant, Ph.D., University of Canterbury, 2000, Professor
—* micrometeorology, boundary layer meteorology, applied
climatology
- Nancy Lee Wilkinson, Ph.D., Oregon, 1984, Professor —* water
resources, environmental perception, environmental history

EMERITUS FACULTY:

- Roger J. Crawford, Ph.D., Washington, 1969*
Patricia Foschi, Ph.D., Oxford, 1993
Larry Foster, Ph.D., Michigan State, 1962
Barbara A. Holzman, Ph.D., UC Berkeley, 1993
Max C. Kirkeberg, M.A., Wisconsin, 1959
Hans J. Meihoefer, Ph.D., Washington, 1968
John E. Westfall, Ph.D., George Washington, 1969

SONOMA STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY, ENVIRONMENT, AND PLANNING

DATE FOUNDED: 1968

DEGREES OFFERED: B.A.

GRANTED 1/1/17-12/31/18: 81 Bachelors

MAJORS: 335

CHAIR: Jeff Baldwin

DEPARTMENT ADMINISTRATIVE COORDINATOR:

Karen Targett

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Sonoma State, Department of Geography, Environment, and
Planning, 1801 E. Cotati Ave., Rohnert Park, California 94928.
Telephone (707) 664-3211. Fax (707) 664-3332. E-mail:
jill.martin@sonoma.edu. Internet: <http://web.sonoma.edu/gep/>

PROGRAMS AND RESEARCH FACILITIES: Our department is
dedicated to providing majors with a broad undergraduate background
in geography, environment, and planning. Through our recent merger
of our Geography and Global Studies with our Environmental Studies
and Planning Departments are better able to offer students the
opportunity to shape their degree in ways that fit their interests and
career paths. Students may choose a Bachelor of Arts concentration in
Environmental Systems; Geospatial Science and Technology; Society,
Environment, and Development; Sustainable Communities; and
Planning for Sustainable Communities; as well as a BS in Energy
Management and Design. While some of our lower division courses
are large (up to 128 students), we balance that with smaller more
personalized upper division courses (17-40 students) which provide
easy contact between professor and student. Seniors write a Capstone
Thesis, involving original research. We encourage our students to
pursue internships, and we provide independent study for those who
have a particular research topic they wish to investigate. Faculty have
research interests that have direct applicability to their classes in areas
such as paleoecology, paleoclimatology, GIS and remote sensing,
conservation and restoration science and policy, urban planning, and
political economies and ecologies of development. We conduct
research and field classes locally, as well as in Latin America and
Madagascar. We possess a well-equipped GIS lab and have GPS
receivers and other equipment for field work. We also house three
centers: the Center for Interdisciplinary Geospatial Analysis (CIGA),
which conducts research, education and community service with the
application of geospatial technology; Sonoma Quaternary Laboratory
(SQUAL), which specializes in reconstructing ecological, climate and
landscape change caused by environmental and climate forces as well
as human impacts over the past several thousand years; our Center for
Sustainable Communities focused upon the integration of planning
with water management, public health, and climate change mitigation;
and our Environment Technology Center for the study of energy
management and conservation

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Semester system. Application for admission to
the program is made to the Admissions Office of the University. Apart
from university-wide scholarships, grants, and student aid, three
departmental scholarships are awarded annually: The Terence Smith
Geography Scholarship, the Geography Alumni Scholarship, and the
Claude Minard Memorial Scholarship. The department also employs a
number of students through grant opportunities and work-study.

FACULTY:

- Rheyna Laney, Professor; Ph.D. in Geography, Clark University,
1999 —* Resources, agriculture, new technologies pedagogies,
Africa.
- Laura A. Watt, Professor and Adjunct Faculty with the Cultural
Resources Management Masters Program; Ph.D. in
Environmental Science, Policy, and Management, University of
California Berkeley, 2001 —* Working landscapes, public lands
management.
- M. Thomas Jacobson, Professor; J.D. University of California
Hastings College of Law, 1987, Masters in City Planning
University of California, Berkeley, 1987. Program:
Environmental Studies and Planning Director of the Center for
Sustainable Communities —* Planning for sustainability: water,
public health, greenhouse gas emission reduction.
- Dr. Matthew Clark, Professor and Director of Center for
Interdisciplinary Geospatial Analysis; Ph.D. in Geography,
University of California, Santa Barbara, 2005 —* Remote
sensing, GIS, biogeography, ecosystem analysis and
conservation, Latin America.
- Dr. Caroline E. Christian, Associate Professor and Adjunct Faculty in
Biology; Ph.D. in Population Biology, University of California,
Davis, 2002 —* Grassland restoration.
- Dr. Jeff Baldwin, Associate Professor; Ph.D. in Geography,
University of Oregon, 2003 —* Environmental ethics, beaver re-
colonization, Caribbean tourism.

- Dr. Michelle Goman, Associate Professor; Ph.D. in Geography, University of California, Berkeley, 1996 — Biogeography, paleoecology and paleoclimatology, geomorphology; Mesoamerica, United States, East Africa.*
- Dr. Daniel R. Soto, Assistant Professor; Ph.D. in Applied Physics, Stanford University, 2010 — Alternative energy systems.*
- Dr. Jose Javier Hernández Ayala, Assistant Professor; Ph.D. in Physical Geography/Climate Science, University of Florida 2016 — Extreme weather modelling, climate change adaptation.*

UNIVERSITY OF CALIFORNIA, BERKELEY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1898

GRADUATE PROGRAM FOUNDED: 1908

DEGREES OFFERED: A.B., Ph.D.

GRANTED 9/1/17-8/31/18: 67 Bachelors; 6 Ph.D.

STUDENTS IN RESIDENCE: 102 Majors, 50 Ph.D.

CHAIR: Nathan F. Sayre

DEPARTMENT MANAGER: Josh Mandel

FOR INFORMATION AND ADMISSIONS:

For general information, Telephone (510) 642 3903. E-mail: jmandel@berkeley.edu. For the undergraduate and graduate handbook and admissions information, contact Marjorie Ensor, Student Academic Advisor. Telephone (510) 642-3904. E-mail: ensor@berkeley.edu. Mail address: Department of Geography, 508 McCone Hall, University of California, Berkeley, CA 94720-4740. Fax: (510) 642-3370. For more information about the University of California, Berkeley go to: <http://bulletin.berkeley.edu/>. Extensive information on the Department can be found at: <http://geography.berkeley.edu/>

PROGRAMS AND RESEARCH FACILITIES: Berkeley Geography offers the highest quality graduate training for future scholars and teachers at the collegiate level, as well as for those going into professional careers in government, NGOs and consulting. The program is unified by a common interest in landscapes, spatial processes, and contemporary problems of foremost importance. The program has three major subdivisions: Development & Environment, Local & Global Relations, and Earth System Science. Within these domains, a wide range of faculty interests are represented, including political ecology, economic geography, cultural geography, modernity studies, urban studies, geography of race and gender, climatology, biogeography, biogeochemistry, glaciology, and geomorphology. Faculty come with a broad spectrum of regional specialties as well, including Africa, East Asia, Europe, Latin America, the Arctic, the Pacific Basin, California, Mexico, and the US West. The faculty has been expanded in recent years to include a number of affiliates in other departments with expertise in such fields as GIS, natural resources, fluvial geomorphology, archeology, cognition, paleo-environments, and urban architecture.

Berkeley students are expected to be independent, and we welcome those who have had professional experience and wish to return to deepen their education. Students are encouraged to range freely through the curriculum and to follow their inspiration where it leads, working in tandem with faculty advisors. Students choose their own mentors, often conferring with two or three faculty in equal measure; these may include faculty affiliates and members from other departments. While faculty have their own research agendas and teaching specialties, and often collaborate with students, we believe students should march to their own drummer. We expect students to read extensively, develop the necessary research skills, and produce a

well-crafted dissertation. Many students publish their findings along the way, as well.

The University of California at Berkeley is the premier graduate research and education institution in the United States, and Geography students can take advantage of a wealth of corollary programs and faculty. Geographers regularly interact with faculty and students from the College of Natural Resources, College of Environmental Design, College of Engineering, Energy and Resources Group, Earth and Planetary Science, Biological Sciences, Departments of Anthropology, Sociology, Economics, Gender and Women's Studies and Ethnic Studies in the Division of Social Sciences, and with Art History, English and others of the Humanities. The campus is rich with interdisciplinary Centers and Institutes, including International Studies, Latin American Studies, Labor Studies, Atmospheric Sciences, Southeast and East Asian Studies, Humanities, and European Studies. Collaboration with the Lawrence Berkeley National Laboratories is also common. Geographers direct several of these centers and students benefit from research programs, grants and symposia organized under their aegis. Geographers also provide core teaching in Global Studies, Environmental Sciences, and American Studies.

Geography is housed in McCone Hall, near the lively North Gate of campus. The Earth Sciences and Map Library is downstairs. Across the glade is the Main Library, center of the system housing 11 million volumes, and the exceptional Bancroft Library, the greatest archive of materials on Western and Central America. The Department facilities include classrooms, offices for faculty and graduate students, research laboratories, and cartography/GIS and remote sensing teaching labs. Central to our operations is the Department Computer Facility, one of the best of its kind on campus and a hub of everyday faculty, staff and student operations. Its main lab, specializing in graphics, cartography, and GIS, includes scanners, digitizer, and color printers, backed up by a Web Server, extensive software library, and the campus TCP-IP network. The Department staff provides excellent support in all areas, including student services, grants, equipment, computing and cartography.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

GRADUATE: Admissions (Ph.D.): Students are admitted to the University of California by the Graduate Division, on the recommendation of the Department. The prospective graduate student submits the Graduate Application for Admission and Fellowship online (obtain application electronically at: http://www.grad.berkeley.edu/admissions/grad_app.shtml).

The following are submitted to the on-line application: statement of purpose; personal history essay; official transcript, with a Grade Point Average (GPA) of at least a B (3.0) in the last two years of college work; scores from the Graduate Record Examination (GRE) General Test; scores from an official TOEFL report (required of international applicants from countries whose official language is not English); and three letters of academic appraisal. Application deadline is December 1 for Admissions and Fellowships. Admission is for Fall only. The GRE should be taken in October prior to the application deadline.

Ph.D. Degree Requirements: All students take GEOG 200A/B in their first year and register for at least 12 units per semester (primarily graduate seminars) for a minimum of two years before taking the Qualifying Examination and advancing to candidacy. By the end of the third year, students entering with a B.A. or B.S. only must hand in a paper that would be suitable for submission to an academic or scientific journal. All students must take the Qualifying Exam by the end of the third year, although it is recommended that students entering with an M.A. take it by the end of their second year. Before starting dissertation research, each student must have an approved Dissertation Prospectus. The Ph.D. dissertation is written by the

student under the supervision of a committee of three members of the University faculty.

Financial Aid: Outstanding applicants are nominated for University Fellowships of various kinds, which top candidates are normally offered. The department also offers financial support in the form of Graduate Student Instructorships and internal fellowships from Block Grants and endowments (the Carl Sauer, the Holway, Kenneth and Florence Oberholtzer, McCone, Brechin-Chlebowski and the Society of Woman Geographers).

UNDERGRADUATE: Admission: The Berkeley campus is on a semester calendar, with the Fall semester beginning in late August. The application filing period for the Fall semester, for both freshman and transfer applicants, is the month of November; applications must be postmarked no later than November 30. The UC application for admission to the fall term is available in early October. You may submit an application electronically at: www.universityofcalifornia.edu/apply or you may print the form for mailing from the same site. Online completion of the application is encouraged.

Degree Requirements: Geography majors must take three lower division courses, and at least eight upper division courses. Of the latter, there are two options: majors complete five courses in one specialty group and two in the other, plus one methodology course; or majors complete four courses in one specialty group and two in the other, plus two methodology courses. The two specialty areas are Earth System Science and Economy, Culture & Society.

The Department offers a Minor that requires a minimum of five upper division courses. Students must maintain an overall grade point average of 2.0 for all courses taken for the minor. A minimum of three courses must be taken on the Berkeley campus. Students must take at least one course in the physical area and one course in the human area from amongst the courses listed in the range of 109-175. Students may select courses in the range of 181-188, but if so there are several that have limited enrollment and require permission of the instructor.

FACULTY:

- Jeffrey Q. Chambers, Ph.D., UC Santa Barbara, 1998, Professor* — terrestrial ecosystem ecology and biogeography, tropical forests and climate change interactions, landscape dynamics and remote sensing
- Sharad Chari, Ph.D., UC Berkeley, 2000, Associate Professor* — Human geography, historical ethnography, social theory, political economy, development, agrarian studies, capitalism, labor and work, difference/ differentiation, racism, biopolitics, Black radical tradition, materiality, oceanic humanities, India, South Africa, Indian Ocean
- John C.H. Chiang, Ph.D., Columbia University, 2001, Professor* — tropical ocean-atmospheric dynamics, seasonal and longer-term climate variability, paleoclimate dynamics
- Kurt M. Cuffey, Ph.D., University of Washington, 1999, Professor* — the paleoclimate record in ice sheets, the dynamics of glaciers and ice sheets, glacial landforms, physical and chemical transformations of polar snowpacks, drainage basin processes
- You-tien Hsing, Ph.D., University of California, Berkeley, 1993, Professor* — economic restructuring and local states in post-Mao China, the work of overseas Chinese capital networks, technology development in Asia's newly industrialized economies, Asia
- Jake Kosek, Ph.D., UC Berkeley, 2002, Associate Professor* — cultural politics of nature and difference, science and technology studies, critical race theory, ethics, biopolitics, human and the non-human environmental politics
- Laurel G. Larsen, Ph.D., University of Colorado, 2008, Associate Professor* — hydroecology, landscape dynamics, complex environmental systems, environmental restoration

Jovan Lewis, Ph.D., London School of Economics, 2014, Assistant Professor — Economic anthropology of Jamaica and the USA; cooperation and inequality; constructions of race, economy, and the market.

David O'Sullivan, Ph.D., University of London, 2000, Associate Professor — Spatial modelling, complex theory, geocomputation, applying GIS tools to the urban environment

Robert Rhew, Ph.D., UC San Diego, Scripps Institution of Oceanography, 2001, Associate Professor — terrestrial-atmosphere exchange of trace gases, atmospheric chemistry and composition, halogen biogeochemistry, stratospheric ozone depletion issues

Nathan F. Sayre, Ph.D., Chicago, 1999, Professor — human-environment interactions, ranching and pastoralism, rangeland ecology and management, scale, endangered species, environmental history, urbanization/land use change

Harley Shaiken, B.A., Wayne State, 1977, Professor — industrialization, work organization and global production, Latin America

ADJUNCT FACULTY:

David Wahl, Ph.D., UC Berkeley, 2005 — Central America, Western US, Pacific Islands

AFFILIATED FACULTY:

Teresa Caldeira, PhD, Berkeley, Professor of City and Regional Planning

Pheng Cheah, PhD, Cornell, 1998, Professor of Rhetoric

William Dietrich, Ph.D., University of Washington, 1982, Professor of Earth and Planetary Science

Iryna Dronova, PhD, Berkeley, 2012, Professor of Landscape Architecture and Environmental Planning

Maggi Kelly, PhD, University of Colorado-Boulder, 1996, Professor of Environmental Science, Policy and Management

G. Mathais Kondolf, Ph.D., Johns Hopkins, 1988, Professor of Environmental Planning

Nancy Peluso, PhD, Cornell, 1998, Professor of Environmental Science, Policy and Management

John D. Radke, Ph.D, British Columbia, 1983, Associate Professor of Landscape Architecture and Environmental Planning

Isha Ray, PhD, Stanford, 1997, Professor of Energy Resources

Raka Ray, PhD, University of Wisconsin-Madison, 1993, Professor of Sociology

Sally Thompson, PhD., Duke, 2010, Professor of Civil and Environmental Engineering

EMERITI FACULTY:

Paul Groth, Ph.D., UC Berkeley, 1983

Gillian P. Hart, Ph.D., Cornell, 1978

Michael Johns, Ph.D., Johns Hopkins, 1990

Beatriz Manz, Ph.D., SUNY Buffalo, 1977

Norman L. Miller, Ph.D., Wisconsin, 1987

Richard A. Walker, Ph.D., Johns Hopkins, 1977

Michael J. Watts, Ph.D., Michigan, 1979

UNIVERSITY OF CALIFORNIA, DAVIS

GRADUATE GROUP IN GEOGRAPHY

DATE FOUNDED: 1955

REORGANIZED AS GRADUATE GROUP: 1994

DEGREES OFFERED: M.A., Ph.D.

GRANTED 7/1/16-6/30/17: 1 Masters, 6 Ph.D.

STUDENTS IN RESIDENCE: 64

NOT IN RESIDENCE: 2

CHAIR: Robert Hijmans

PROGRAM COORDINATOR: Carrie Armstrong-Ruport

GRADUATE ADVISORS: Ryan Galt; Robert Hijmans; Jay Lund; James Quinn

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Carrie Armstrong-Ruport, Geography Graduate Group, Department of Human Ecology, One Shields Avenue, University of California, Davis, California, 95616. Telephone (530) 752-4119. E-mail: caruport@ucdavis.edu. Internet: <http://geography.ucdavis.edu/>.

PROGRAMS AND RESEARCH FACILITIES: Graduate degrees in Geography are offered through the Graduate Group in Geography (hereafter GGG), which is an interdepartmental group with faculty from the Colleges of Agricultural and Environmental Sciences, Biological Sciences, Engineering, Letters and Science, and the Schools of Medicine and Veterinary Medicine. With over 60 geography affiliated faculty members in 20 departments across campus, in terms of the number and diversity of affiliated faculty, we are among the nation's largest geography program. The graduate group structure emphasizes shared research interests amongst faculty and students, with the flexibility to grow and quickly change to reflect emerging areas of interdisciplinary knowledge and technology. The overall focus of the program is on the natural and built environment, building on the strengths of the campus faculty.

Faculty interests in the GGG are diverse and attract students in such areas as biophysical geography and related natural science and engineering fields, as well as human geography and related social science fields. A number of faculty use and teach GIS, remote sensing, modeling, spatial analysis, and related geographical techniques, and the faculty have a strong field orientation as well. The instructional program focuses on several areas of emphasis where faculty expertise and student interest are the greatest: environmental sciences; global environmental change; landscape architecture and environmental design; methods; models and GIS; nature and society; people, place and region; and regional and community development. GIS science is a cross-cutting area of strength for the group. Faculty and students conduct their research throughout the world, with particular strength in Latin America, Europe, the Middle East, Asia, and California and the Western United States.

Library materials are available on campus, in the State Library, and other state and federal agencies in Sacramento. The city of Sacramento, the state capital, lies 15 minutes east; San Francisco is 75 miles west. The city of Davis has a small-town friendliness and the park-like UC campus has a student body of 35,000. UC Davis is one of the nation's top research universities where more than 7,000 students are engaged in graduate or professional studies. The campus is near two major urban centers, within the agriculturally diverse Central Valley and in close proximity to the Pacific Ocean and the Sierra Nevada, providing outstanding research opportunities at UC research and field stations.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The Geography Graduate Group offers the Master of Arts (M.A.) and Doctor of Philosophy (Ph.D.) degrees.

Normally, admission into the graduate program is for full-time status, and in Fall Quarter only. Applicants should be prepared in geography or a related field. Students must contact the faculty to identify a major professor during the admission process.

The minimum admission requirement is a grade point average of B (3.0 out of 4.0) in upper-division course work taken during the applicant's last two years as an undergraduate, or other evidence of comparable scholarship. The GRE General Test is also required. Test should have been taken within the past five years. The TOEFL iBT is required of all applicants whose native language is not English, or whose education was not in English. A minimum score of 80 is required. Complete online applications for both admission and financial aid must be received by December 15 to the GGG for fellowship, block grants and out-of-state fee waivers.

To obtain materials visit the GGG website at <http://geography.ucdavis.edu>. Contact the GGG Program Coordinator, Department of Human Ecology, One Shields Avenue, University of California, Davis, CA 95616. Telephone: (530) 752-4119. E-mail: caruport@ucdavis.edu.

FACULTY:

Javier Arbona — race, space, and memory; histories of colonialism and imperialism, particularly with relationship to urbanization and cities; critical military, security, and policing studies; experimental geography and art practices; urban, architectural, and spatial theories

Gwen Arnold — environmental policy; common-ground resource theory and management; bureaucratic decision-making in resource management; hydraulic fracturing (fracking); institutional analysis; social networks

Michael Barbour (Emeritus) — plant ecology, North-Central-South America, Australia

Tom Beamish — social and organizational response to environmental change and disaster

Stephen Boucher — international agricultural development; Agricultural credit and insurance markets.

Cynthia Brantley (Emeritus) — African social history, gender in Africa, history of Africa nutrition, East Africa

Noli Brazil — spatial demography; neighborhood inequality; residential mobility; urban; sociology of education

Catherine Brinkley — public health outcomes around the food-energy-waste nexus. Qualitative methods and social network mapping and spatial analytics to understand farm-to-city services such as food supply and waste-to-energy. Particular interest in how these networks impact neighborhood socio-economics and greenhouse gas emissions in an effort to support sustainable land-use planning around environmental justice.

Stephen Brush (Emeritus) — cultural ecology, eastern Mediterranean, North – Central – South America

Mary L. Cadenasso — crop and ecosystem sciences, horticultural sciences

Thomas A. Cahill (Emeritus) — atmospheric optics and haze, especially smoke from forest fires

Dave Campbell — public policy and community governance; citizenship and civic engagement; non-profit and faith-related organizations; program evaluation

Diana Davis — environmental history, veterinary history, colonialism, political economy, Middle East and North Africa, pastoral societies and arid lands

David de la Peña — participatory design, autonomous communities, architecture, urban design, sustainable site-planning, urban agriculture

Adela de la Torre — HIV prevention in high risk groups in Mexico and Nigeria, binational/border health, immigration policy in the US and Latin America, health, education and income disparities in the US; gender, health and geography

- Natalia Deeb-Sossa* — borderlands, in-betweenness and instability, sites of boundary-making and fragmentation, but also resistance and continual reconstruction
- Dennis Dingemans (Emeritus)* — urban planning, North America, Europe
- Deborah L. Elliott-Fisk (Emeritus)* — Quaternary environments, coastal, mountain, and alpine, restoration, North America; biogeography, geomorphology and soils, viticultural geography
- Joan Florsheim (Emeritus)* — geomorphology, climate change, anthropogenic disturbances, and restoration
- Mark Francis (Emeritus)* — urban and community design, North America, Europe
- Isao Fujimoto (Emeritus)* — community change, Asian Studies
- Ryan E. Galt* — cultural and political ecology, agricultural and environmental governance, political economy of sustainable agriculture, cartographic design, the Americas
- Charles Goldman (Emeritus)* — conservation, restoration, geographic information systems (GIS), North America
- Elise Gornish* — restoration ecology and invasive species management, particularly investigating effects of management across spatial scales.
- Steven Greco* — conservation, restoration, geographic information systems (GIS), North America
- James Grieshop (Emeritus)* — community development, North – Central America
- Louis Grivetti (Emeritus)* — nutritional geography, Africa, eastern Mediterranean, Southeast Asia
- Luis Guarnizo* — economic sociology, transnational migration, immigrant entrepreneurs, comparative international development, citizenship
- Joyce Gutstein (Emeritus)* — environmental geography, biodiversity, education
- Erin Hamilton* — sociology, social demographics
- Susan L. Handy* — transportation and land use, travel behavior
- Andrew Hargadon* — designing programs that align industry and entrepreneurship with university research, in particular in the fields of sustainable technologies
- Lynette Hart* — companion animals, elephants, Africa, North America
- Bruce Haynes* — sociology
- Rebecca Hernandez* — broadly focuses on the ecology, ecosystems, and sustainability of arid lands globally. Sustainability work focuses on the geography of energy, the land-energy-environment nexus, land-use and land-cover change of energy, environmental impacts of energy, energy transmission, energy policy, solar and wind energy systems and optimization, and the use and development of big geospatial energy datasets. Ecological work on soils incorporates biogeography and spatiotemporal dynamics of soil biogeochemistry and microbes in arid land ecosystems.
- Robert Hijmans* — ecological modeling, geo-informatics, agricultural geography, biodiversity conservation, climate change
- Frank Hirtz (Emeritus)* — law & development, development planning, social policy & welfare, Southern Africa, Southeast Asia
- Benjamin Houlton* — global change impact assessments; computational modeling of Earth processes; global biogeochemical cycles and climate change; Earth system science; planetary health
- Richard Howitt (Emeritus)* — resource economics, environmental economics, quantitative methods, econometrics, operations research
- Hsuan Hsu* — literary representations of space, environment, and inequality
- Yufang Jin* — remote sensing of terrestrial ecosystems, fire disturbance, ecophysiology, biogeochemical cycle, climate change, and GIS
- Suad Joseph (Emeritus)* — women in development, Middle East
- Carl Keen* — teratology and birth defects, North America, Southeast Asia
- Martin Kenney* — Silicon Valley and regional development, Asian overseas investments, electronics industry
- Pete Klimley* — movements of fishes, sharks and marine mammals relative to their social and physical environments; ultrasonic, radio and satellite telemetry; mechanisms of orientation and migration
- Kurt Kornbluth* — biological and agricultural engineering
- Eric Larsen* — fluvial geomorphology, hydrology, watersheds, North America
- F. Thomas Ledig (Emeritus)* — evolution and biogeography, North America, Mexico, Australia, Mediterranean basin
- Frank Loge* — Design and function of sustainable urban system; landscape ecology related to fisheries management; ecologies of infectious diseases; interconnection between water and energy systems
- Jonathan London* — environmental justice, rural community development, participatory action research, political ecology, Central Valley
- Jeff Loux (Emeritus)* — environmental policy, community planning, land use planning, North America
- Mark Lubell* — environmental policy, community-based management, social networks, human cooperation, quantitative analysis
- Travis Lybbert* — economic development; poverty dynamics, risk & uncertainty; technology transfer & adoption, intellectual property
- Jay R. Lund* — resource management and planning, water resources, urban geography
- Dean MacCannell (Emeritus)* — semiotics, social policy and the environment, North America
- Amima Mama* — focusing on the contribution research can make in the pursuit of social justice and feminist agendas and community advocacy
- Greg McPherson (Emeritus)* — urban forest ecology, benefit-cost analysis
- Jay Mechling (Emeritus)* — U.S., vernacular landscapes, food ways, animal/human relations
- Beth Middleton* — North America and Caribbean. Native American community/economic development; political ecology; Federal Indian law; Native American natural resource policy; qualitative GIS; indigenous geography and cartography; Afro-indigeneity; intergenerational trauma and healing; participatory research methods; rural environmental justice; multi-cultural dimensions of conservation, land use, and planning
- Brett Milligan* — designed and managed landscapes; urban geography; ecology of infrastructure; landscape modeling; representation and performance metrics; climate change adaptation; theory of accelerated landscape change
- Patricia L. Mokhtarian (Emeritus)* — travel behavior modeling, telecommunication impacts, transportation and land use
- Frances Moore* — social and economic impacts of climate change; adaptation; climate policy; impacts on agriculture; risk management
- Jeffrey Mount (Emeritus)* — fluvial geomorphology
- Peter Moyle (Emeritus)* — fish biology, wildlife conservation, watershed ecology and nature/culture
- N. Claire Napawan* — design of the built environment and investigating the roles in which landscapes might adapt to provide ever-increasing productive and infrastructural programs to the global city, given economic, social, and environmental changes within urban development, including population growth and climate change
- Bettina Ng'weno* — states and property in Latin America and Africa. The construction and mobilization of space with a focus on governance, categorization, citizenship, territory and movement. Social production of space and the stories and histories told about emplacement and the movement of ideas, people and things between Africa and Asia
- Debbie Niemeier* — transportation-air quality modeling and policy, sustainability, and environmental justice
- Lorence R. Oki* — environmental horticulture and water quality
- Patsy Eubanks Owens* — environments of children and adolescents, community participation

Nicholas Pinter — geomorphology: the geology of the earth-surface; human influences on landscapes and geomorphic processes; rivers, flooding, and floodplain management

Richard Plant (Emeritus) — geographic information systems (GIS), China, Europe, North America

James Quinn (Emeritus) — conservation biology, Gap Analysis, GIS

Noha Radwan — Arabic and comparative literature

Michael Rios — political geography, urban design, community development

Robyn Rodriguez — how understandings of belonging are changing with increased mobility across borders and whether citizenship regimes are being reconfigured as a consequence. She has explored these concerns with a particular focus on contractual laborers from the Philippines.

Lynn Roller (Emeritus) — classical landscapes and biophysical environment; Eastern Mediterranean

Margaret Rucker (Emeritus) — clothing and environmental hazards, North America, China

Hugh Safford — community and landscape ecology, fire ecology, restoration ecology and biogeography

Ann Savageau — natural world, human material culture, and their intersection and interaction

Heath Schenker (Emeritus) — landscape history, Europe and South America

Mark Schwartz — taxonomic and geographical aspects of conservation biology

Kate Scow — land, air and water resources

Art Shapiro — evolution, population dynamics, North-South America

Sheryl-Ann Simpson — urban, political, cultural and health geography, comparative social planning, critical GIS and spatial analysis, immigration and social/political participation

Aaron Smith — agriculture and resource economics, econometrics, finance

Michael P. Smith (Emeritus) — urban political economy and culture, globalization and transnationalism

Edward Spang — food-water-energy nexus; environmental indicators; systems analysis; water and energy resource management; environmental policy; clean technology

Smriti Srinivas — urban cultures, place-making, utopias, social memory, cultures of the body and performance, religion, South Asia within a comparative context

Margaret Swain (Emeritus) — sustainable development, tourism, China, Europe

Julie Sze — gender and the environment

Kenneth Tate — rangeland watershed specialist

Robert L. Thayer, Jr. (Emeritus) — environmental perception and sustainable landscape development, North America

James Thorne — international conservation, transportation, ecology

Thomas P. Tomich — agricultural sustainability, sustainable food systems, sustainability metrics and indicators, sustainability science; geography emphasis includes land use and land cover change

Susan Ustin — geographic information systems (GIS), remote sensing, North America

Stefano Varese (Emeritus) — indigenous people of Central and South America, environmental struggles

M. Anne Visser — Social inequality and equity, low wage and informal labor markets, socioeconomic integration and incorporation, public and urban policy

Charles Walker — historical geography, human geography, Latin America

Wesley W. Wallender — hydrological science and modeling, GIS

Geoffrey Wandesforde-Smith (Emeritus) — environmental policy, North-South America, Southeast Asia

Karen Watson-Gegeo (Emeritus) — anthropology, applied linguistics; quantitative and ethnographic methods; discourse analysis; rural development; ethnic identity; feminist research; Hawai'i, Solomon Islands, Pacific Islands, South and Southeast Asia, US Native and immigrant populations

Miriam J. Wells (Emeritus) — rural economic development, immigration, ethnicity, work and labor relations, the role of the state

Stephen M. Wheeler — sustainable development; urban design; city and regional planning; land use; climate change

Diane Wolf — women in development, Southeast Asia

Truman Young — plant population and community ecology, restoration, and conservation, Africa

Minghua Zhang — environmental modeling, GIS, risk analysis, agriculture, North America

UNIVERSITY OF CALIFORNIA, LOS ANGELES

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1915

GRADUATE PROGRAM FOUNDED: 1934

DEGREES OFFERED: B.A., M.A., Ph.D.

GRANTED 7/1/16-6/30/17: 194 Bachelors, 6 Masters, 5 Ph.D.

STUDENTS IN RESIDENCE: 341 Majors, 176 Minors, 68 Graduate Students

CHAIR: Gregory S. Okin

Manager: Kasi McMurray

FOR FURTHER INFORMATION WRITE TO: Graduate Adviser, Department of Geography, University of California, Box 951524, Los Angeles, California 90095-1524. Telephone (310) 825-1071. Fax (310) 206-5976. Internet: www.geog.ucla.edu.

PROGRAMS AND RESEARCH FACILITIES: Producing geographers of the highest quality is the principal goal of UCLA's graduate program, designed primarily for students pursuing the Ph.D. degree. The M.A. Program serves as an essential building block of the doctoral program. The doctorate is awarded to those students who have achieved the level of geographical knowledge and training required of a professional geographer. The degree affirms the ability of its holders to make scholarly contributions in their fields of specialization and to undertake advanced research in those areas.

The research and teaching interests of the faculty cover major areas of geographical knowledge and underlie the graduate program. Broadly grouped these areas include biogeography, physical geography, environmental studies, human geography, regional geography, geographical procedures, and the history and philosophy of geography (see the faculty listing for specific specializations).

Many other distinguished departments in cognate disciplines contribute to the strength of the department. Strong area studies programs exist for Africa, Asia, Europe and Latin America. In addition to departmental faculty several other geographers teach in the Urban and Regional Planning Program.

UCLA provides an enormous range of resources for graduate training and research. The library system contains over five million volumes and one of the largest collections of maps in the western United States.

In the department are laboratories for work in geomorphology, climatology, biogeography, GIS, remote sensing, computer cartography, and quantitative methods. The campus computing facilities include access to a 3090-mainframe system, a Sun cluster, and a LAN operated by Social Sciences Computing (SSC). The SSCnet provides a high level of connectivity, flexibility, power, and service to users (including full Internet access, on-line databases, and an array of software for word-processing, database and spreadsheet,

graphic and cartographic, statistical and mathematical analysis. In Southern California and neighboring Mexico exist a seemingly infinite number of potential opportunities and sites for research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Admission: Application deadline for entrance in Fall 2019 is December 15, 2018. All admissions materials may be found on the web at www.gdnet.ucla.edu. All application materials must be submitted online: a personal statement, two copies of a complete set of transcripts of prior university coursework, official results of the Graduate Record Examination (GRE), and three letters of evaluation (academic references are strongly recommended). Foreign students applying from outside the United States are not required to take the GRE but must submit official Test of English as a Foreign Language (TOEFL) scores. Normally one should have (1) completed the undergraduate major in geography or in a cognate field, (2) received a B.A./B.S. degree, (3) attained at least a 3.3 grade-point average (GPA) in courses taken in your junior and senior years and in the major for admission to the M.A. program or a 3.5 GPA in graduate courses for students entering the Ph.D. program with a M.A., (4) attained a high GRE score (normally above 1200) in the combined verbal and quantitative sections, (5) strong letters evaluating past academic, and possibly professional, performance and potential for high achievement in graduate studies, and (6) for students applying to the Ph.D., evidence of substantive research in the form of a published paper, thesis chapter, or equivalent documentation.

In addition to the above requirements, admission to the M.A. or Ph.D. program requires that a faculty member from the department express a willingness to serve as interim advisor to the applicant. Students are therefore strongly advised to establish personal contact with potential advisors before application. For a list of faculty and their research interests, please visit www.geog.ucla.edu.

Geography normally admits applicants whose ultimate degree objective is Ph.D. although a M.A. degree may be earned en route to the Ph.D.

M.A. Degree Requirements: Students must complete at least eight courses in addition to two core courses in the history and philosophy of geography and quantitative methods. A thesis is required, based in whole or in part on original investigation.

Ph.D. Degree Requirements: Students must complete eight graduate geography courses (in addition to the two core courses if not already taken during the M.A.) are required. Written and oral qualifying examination precedes dissertation research. The dissertation is the ultimate focus of the Ph.D. program and should make an original contribution to geographic research.

Financial Assistance: The department has limited funding available for graduate students (e.g. teaching assistantships, stipends, tuition assistance and/or other fellowships).

FACULTY:

John A. Agnew, Ph.D., Ohio State, 1975, Professor — political, social, urban geography
Stephen A. Bell, Ph.D., Toronto, 1991, Professor — historical and cultural geography, Latin America, geographic thought
Judith A. Carney, Ph.D., UC, Berkeley, 1986, Professor — cultural geography, environment and development in the Third World, gender issues, Africa
Kyle C. Cavanaugh, Ph.D., UC Santa Barbara, 2011, Assistant Professor — coastal ecology, biogeography, spatial ecology, and remote sensing
Daniela F. Cusack, Ph.D., UC, Berkeley, 2009, Associate Professor — biogeography, tropical ecosystems and soils
Jared M. Diamond, Ph.D., Cambridge, England, 1961, Professor — regulation of nutrient transport; integrative and evolutionary physiology, biogeography

Lieba Faier, Ph.D., UC Santa Cruz, 2003, Associate Professor — gender issues, global migration, Japan, Philippines and the United States

C. Cindy Fan, Ph.D., Ohio State, 1989, Professor — population geography, regional development, quantitative methods, spatial modeling, China

Thomas W. Gillespie, Ph.D., UCLA, 1998, Professor — biogeography, geographic information systems, remote sensing

Jamie M. Goodwin-White, Ph.D., University of Washington, 2005, Assistant Professor — population geography

Juan C. Herrera, Ph.D., UC Berkeley, 2013, Assistant Professor — comparative ethnic studies, urban geography, Central American Studies

Kelly A. Kay, Ph.D., Clark University, 2016, Assistant Professor — Nature/society relations, environmental politics and policy, North America

Helga M. Leitner, Ph.D., Vienna, Austria, 1978, Professor — international migration, politics of immigration and citizenship, urban development & sustainability, global urbanism, urban social movements, and socio-spatial theory

Dennis P. Lettenmaier, Ph.D., University of Washington, 1975, Professor — hydrologic modeling and prediction, hydrology-climate interactions, and hydrologic change

Glen M. MacDonald, Ph.D., Toronto, 1984, Professor and The John Muir Memorial Chair — biogeography, climate change, environmental change, water resources, drought, and environmentalism

Adam D. Moore, Ph.D., Wisconsin-Madison, 2010, Associate Professor — political geography

Gregory S. Okin, Ph.D., California Institute of Technology, 2001, Professor — physical geography and soils, geomorphology and remote sensing

Shaina S. Potts, Ph.D., UC Berkeley, 2017, Assistant Professor — financial geography, geopolitics of sovereign debt and uneven development

Marilyn N. Raphael, Ph.D., Ohio State, 1990, Professor — physical, climatology, global climate change, cartography/geographic information systems

David L. Rigby, Ph.D., McMaster, 1988, Professor — economic geography, quantitative methods, regional development

Yongwei Sheng, Ph.D., UC Berkeley, 2000, Professor — physical geography, GIS, remote sensing, photogrammetry and global change

Eric S. Sheppard, Ph.D., Toronto, 1976, Professor and The Alexander von Humboldt Chair — geographical political economy, uneven geographies of globalization, neoliberalism, urbanization in the global South, urban sustainability and environmental justice, and critical GIS

Michael E. Shin, Ph.D., Colorado, 1998, Associate Professor — political, applied GIS, quantitative, international relations

Laurence C. Smith, Ph.D., Cornell, 1996, Professor — hydrology, remote sensing and GIS

Yongkang Xue, Ph.D., Utah, 1994, Professor — climatology, remote sensing

AFFILIATED FACULTY:

Susanna B. Hecht, UCLA Planning
Thomas Painter, UCLA JIFRESSE, JPL
Michael Storper, UCLA Planning

EMERITI FACULTY:

Charles F. Bennett, Ph.D.
William A.V. Clark, Ph.D.
Michael R. Curry, Ph.D.
J. Nicholas Entrikin, Ph.D.
Gerry Hale, Ph.D.
Antony R. Orme, Ph.D.
Melissa Savage, Ph.D.
Allen J. Scott, Ph.D.

Werner H. Terjung, Ph.D.
Norman J.W. Thrower, Ph.D.
Stanley W. Trimble, Ph.D.
Hartmut S. Walter, Ph.D.

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

DEPARTMENT OF GEOGRAPHY

GRADUATE PROGRAM FOUNDED: 1974

DEGREES OFFERED: BA, BA with GIS Emphasis, BS in

Physical Geography, Minor in Spatial Studies, MA, PhD

STUDENTS IN RESIDENCE: 208 Undergraduate Majors,

87 Graduate Students

CHAIR: Stuart Sweeney

FOR CATALOG AND FURTHER INFORMATION,

CONTACT: Graduate Program Advisor: Department of Geography,
University of California Santa Barbara, Santa Barbara, CA 93106-
4060. Telephone: (805) 893-3663; Fax: (805) 893-2578; e-mail:
grad_assistant@geog.ucsb.edu; Internet: www.geog.ucsb.edu.

PROGRAMS AND RESEARCH FACILITIES: The Geography Department at UCSB offers specialized graduate training leading toward the Master's and PhD degrees. Faculty expertise and graduate training map into the following domains:

GEOGRAPHIC INFORMATION SCIENCE AND GEOINFORMATICS: This domain includes the department's historic and continuing strengths in geographic information systems and sciences, remote sensing, and cartography. All of these address aspects of representing, retrieving, integrating, and visualizing spatial and temporal information. Research and training in this area ranges from geo-visualization, spatial data science and advanced spatial analysis, data infrastructures, information retrieval, and semantics to transportation systems modeling and simulation.

URBAN ANALYTICS AND REGIONAL SCIENCE: This includes a broad range of topics and methods applicable to problems in transportation, urban/regional planning, economic geography, and conservation planning. The department has particular expertise in developing and applying methods of spatial optimization and decision support.

POPULATION AND HEALTH: The focus of this domain includes traditional topics from demography and public health as they manifest in place (migration, disease transmission, health disparities, population-environment-development, etc.). Students in this domain usually pursue the interdisciplinary graduate emphasis in Demography and research frequently involves a field component.

COGNITIVE AND BEHAVIORAL SCIENCES: This research domain highlights how people understand, learn about, and interact with the spatial environment. The domain includes topics such as spatial decision-making, navigation and wayfinding, sense of place, activity spaces, and spatial cognitive neuroscience. Training in cognitive and behavioral sciences is highly interdisciplinary, and students in this area often pursue a graduate emphasis in Cognitive Science.

TERRESTRIAL SCIENCES: This domain includes expertise in earth system science, including biogeochemistry, soil science, geomorphology, hydrology, ecohydrology, urban ecology, glaciology and biogeography. Field methods are strongly emphasized in this domain, often combined with advanced use of quantitative geospatial analysis using remote sensing and modeling.

OCEAN SCIENCE: This domain includes many aspects of interdisciplinary marine science including spatial ecology, ocean circulation, coastal and estuarine processes, marine ecosystems, ocean biogeochemistry, and climate change. Training ranges from numerical modeling, field observations, and remote sensing, to spatial statistics, data assimilation, network theory, and machine learning.

ATMOSPHERIC AND CLIMATE SCIENCE: This domain develops theoretical and applied studies of tropical and polar climate dynamics, environmental fluid mechanics, land-atmosphere interactions, regional air-sea interaction, the Madden-Julian Oscillation, the El Niño/Southern Oscillation, high mountain climates and monsoon systems. This domain uses remote sensing, shore-based and ship-based fieldwork, robotic observations, and land-based instrumental atmospheric observations. Research uses regional and global models to investigate subseasonal to seasonal prediction, cryosphere, climate change, climate hazards, fire-weather regimes, mountain weather and climate, troposphere-stratosphere interactions, ocean circulation, ocean carbon cycle and biogeochemistry.

The Geography faculty at UCSB have close research and teaching relationships with other disciplines, which provides an excellent multi-disciplinary environment for graduate education. The faculty are outstanding researchers and have a strong record of obtaining extramural funding, which provides considerable support for graduate students. The Department of Geography is the administrative home to UCSB's Center for Spatial Studies (spatial@ucsb) and is closely coupled with the UCSB Earth Research Institute as well as several other cross-disciplinary emphases and centers.

JOINT DOCTORAL PROGRAM WITH SAN DIEGO STATE UNIVERSITY (SDSU): The Geography Departments at UCSB and SDSU collaborate to offer a distinctive PhD in Geography that takes advantage of the strengths and environments of both departments. Students in the program will have a PhD supervisory committee with a main adviser from SDSU but at least one or two members from UCSB. They will typically be in residence at SDSU throughout their graduate career but spend one year in residence at UCSB. See <http://www.geog.ucsb.edu/graduates/affiliated-programs/#sdsu>

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Applications are to be made to the Admissions Office, UCSB. Admission requirements are the same for all undergraduates entering the University of California Santa Barbara.

GRADUATE: UCSB operates on the quarter system. Fall quarter admission only. Students applying for entrance to the program should have a demonstrated capability in Geography or other appropriate fields, have acquired a high grade point average (at least 3.25) during the junior/senior years, and should submit verbal and quantitative GRE scores upon formal application (combined verbal and quantitative scores should exceed 301/ 1100 on previous scale). The Department has a number of teaching assistantships and research assistantships available, and students may also apply for University fellowships.

FACULTY:

Leila Carvalho, PhD, Meteorology, University of São Paulo, Brazil, Associate Professor — Regional and large-scale climate variability and modeling, global climate change, and scaling processes in geophysics

Susan Cassels, PhD, Demography, Princeton University, Assistant Professor — Epidemiology and mathematical modeling; social network analysis; infectious disease epidemiology

- Kelly Caylor, PhD, *Environmental Sciences, University of Virginia, Professor* — Ecology and hydrology of drylands, distributed environmental sensing & sensor development, sub-saharan agriculture, coupled social-environmental systems
- Oliver Chadwick, PhD, *Soil and Water Science, University of Arizona, Professor* — Pedology, geomorphology, quaternary geology, soil-water-vegetation interaction and landscape relationships, isotropic fractionations during soil evolution
- Liz Chrastil, PhD, *Cognitive Science, Brown University, Assistant Professor* — Spatial Cognition, spatial neuroscience, navigation, cognition and behavior, perception and action
- Vena Chu, PhD, *Geography, University of California, Los Angeles, Assistant Professor* — Remote sensing, Greenland ice sheet meltwater dynamics
- Richard Church, PhD, *Environmental Systems and Research, Johns Hopkins University, Professor* — Planning and environmental location/allocation modeling, water resources planning, operations research methods
- Keith Clarke, PhD, *Analytical Cartography, University of Michigan, Professor* — Cartography and GIS
- Helen Couclelis, PhD, *Urban Modeling, Cambridge University, Professor Emerita* — Spatial theory and modeling, behavioral geography, planning, and philosophy of science
- Timothy DeVries, PhD, *Earth System Science, University of California, Irvine, Assistant Professor* — Ocean circulation and biogeochemistry, carbon cycle, climate change, numerical modeling
- Tommy Dickey, PhD, *Geophysical Fluid Dynamics, Princeton University, Professor Emeritus* — Atmosphere-ocean interactions and upper ocean mixing, turbulence and internal waves, bio-optics, biogeochemistry, and biological-physical interactions
- Qinghua Ding, PhD, *Meteorology, University of Hawaii, Assistant Professor* — Climate dynamics
- Vamsi Ganti, PhD, *Civil Engineering, University of Minnesota, Twin Cities, Assistant Professor* — Physical Sedimentology; geomorphology; quantitative interpretation of the sedimentary record
- Catherine Gautier, PhD, *Physics and Meteorology, University of Paris, Professor Emerita* — Radiative transfer, earth radiation budget and cloud processes, large scale hydrology and surface/atmosphere interaction, global processes, and earth system science
- Michael Goodchild, PhD, *Geography, McMaster University, Professor Emeritus* — Urban and economic geography, geographic information systems, and spatial analysis
- Konstadinos Goulias, PhD, *Civil Engineering, University of California, Davis, Professor* — Transportation planning and modeling, travel behavior, behavioral dynamics, and microsimulation
- Krzysztof Janowicz, PhD, *Geoinformatics, University of Münster, Germany, Associate Professor* — Geographic Information Science, Semantic Web, sensor web, mobile computing, geographic information retrieval, gazetteers, similarity and context
- Charles Jones, PhD, *Land, Air, and Water Resources, University of California, Davis, Associate Professor* — Precipitation variability, extreme events, weather forecasts, predictability studies, regional modeling, monsoon systems, and climate change
- Jennifer King, PhD, *Earth System Science, University of California, Irvine, Professor* — Biogeochemistry, earth system science, global change, ecosystem ecology, plant-soil-atmosphere interactions
- Werner Kuhn, Dr.sc.techn., *Surveying Engineering, ETH Zurich, Professor* — Geographic Information Science, usability, semantics of spatial information, ontology of the environment, linked data, semantic reference systems
- Hugo Loaiciga, PhD, *Civil Engineering, University of California, Davis, Professor* — Planning, design, and analysis of water resource systems; theory and computational aspects of surface and groundwater hydrology
- David Lopez-Carr, PhD, *Geography, University of North Carolina, Chapel Hill, Professor* — Population (migration, fertility), health, environmental change, deforestation, rural development, Latin America
- Joe McFadden, PhD, *Integrative Biology, University of California, Berkeley, Associate Professor* — Land-use and land-cover change, biosphere-atmosphere interactions, Earth system science, sustainability science, urban ecology
- Joel Michaelsen, PhD, *Geography, University of California, Berkeley, Professor Emeritus* — Climatology, meteorology, and statistics
- Dan Montello, PhD, *Psychology, Arizona State University, Professor* — Spatial perception, cognition, and behavior; cognitive issues in cartography and GIS; spatial aspects of social behavior; environmental psychology and behavioral geography
- Alan Murray, PhD, *Geography, University of California, Santa Barbara, Professor* — Location modeling; urban and regional planning; spatial optimization; sustainability
- Nick Nidzieko, PhD, *Environmental Fluid Mechanics, Stanford University, Assistant Professor* — Coastal physical oceanography
- Dar Roberts, PhD, *Geological Sciences, University of Washington, Professor* — Remote sensing of vegetation; geology, ecology, and ecophysiology
- Dave Siegel, PhD, *Ocean Physics, University of Southern California, Professor* — Numerical simulation of small-scale thermocline motions, bio-optical oceanography, mixing and turbulence, the role of radiative processes in air-sea processes, kinematics and dynamics of oceanic particulates
- Ray Smith, PhD, *Physics, Stanford University, Professor Emeritus* — Remote sensing of oceans, physical and biological oceanography; primary production and bio-optical modeling in aquatic environments, with emphasis on Antarctic ecosystems; marine and sea ice ecology of southern ocean; UV effects on phytoplankton; optical / biological / physical oceanography; marine resources; remote sensing of oceans; and earth systems science
- Terry Smith, PhD, *Geography and Environmental Engineering, Johns Hopkins University, Professor Emeritus* — River geomorphology; Computational modeling; Individual and aggregate decision making; Artificial intelligence
- Stuart Sweeney, PhD, *City and Regional Planning, University of North Carolina, Chapel Hill, Professor* — Applied statistics; population and development geography; agricultural systems and livelihoods; Central America, Mexico, and Africa.
- Libe Washburn, PhD, *Engineering Sciences, University of California, San Diego, Professor* — Coastal circulation, mesoscale processes, air-sea interactions, and interdisciplinary oceanography

UNIVERSITY OF SOUTHERN CALIFORNIA

SPATIAL SCIENCES INSTITUTE

DATE FOUNDED: 2010

DEGREES OFFERED: B.S., Geodesign; B.S., Global Geodesign; Minor, GIS and Sustainability Science; Minor, Human Security and Geospatial Intelligence; Minor, Spatial Studies; M.S., Geographic Information Science and Technology (online); M.S., Human Security and Geospatial Intelligence (online); M.S., Spatial Data Science; M.S., Spatial Economics and Data Analysis; Graduate Certificate, Geographic Information Science and Technology (online); Graduate Certificate, Geospatial Intelligence (online); Graduate Certificate, Geospatial Leadership (online); Graduate Certificate, Spatial Analytics; Ph.D., Population, Health and Place

GRANTED 9/1/16-08/31/17: 37 M.S. (Geographic Information Science & Technology), 32 Graduate Certificates (Geographic Information Science & Technology), 10 Graduate Certificates (Geospatial Intelligence)

STUDENTS IN RESIDENCE: 42 B.S. (GeoDesign), 20 Minor (Spatial Studies), 24 Minor (Human Security and Geospatial Intelligence), 18 M.S. (Spatial Data Science), 8 Ph.D. (Population, Health and Place)

STUDENTS NOT IN RESIDENCE: 122 M.S., 53 Graduate Certificate, Geographic Information Science and Technology, 25 Graduate Certificate, Geospatial Intelligence

DIRECTOR: John P. Wilson

MANAGING DIRECTOR: Susan Kamei

ACADEMIC PROGRAMS DIRECTOR: Kendrick Watson

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Kendrick Watson, Spatial Sciences Institute, University of Southern California, 3616 Trousdale Parkway, AHF B55, Los Angeles, CA 90089-0374. Telephone: (213) 740-8298. Fax: (213) 740-9687. Web: <http://spatial.usc.edu/>

PROGRAMS AND RESEARCH FACILITIES: The University of Southern California has recently embarked on an initiative to promote spatial thinking across the natural and social sciences, the humanities, and the professions. This initiative is led by the Spatial Sciences Institute and the spatial sciences are cast in terms of all the ways that geography (place, space, etc.) can be used to acquire, organize, represent, analyze, model, and visualize information. The Spatial Sciences Institute is housed in the Allan Hancock Foundation Building and includes faculty and staff offices, two conference rooms, an instructional computer laboratory, a collaborative classroom, and dedicated spaces for graduate and undergraduate student researchers. The Institute boasts an impressive array of computing technologies dedicated to research and education. Both online and residential students are provided with state-of-the-art geographic information technologies via dedicated virtual desktops and servers and residential students can access these same tools through a dedicated student research laboratory and a mobile laboratory that we use for teaching at the Wrigley Marine Science Center on Catalina Island. These platforms power a multitude of applications, including the entire suite of industry-standard GIS applications from Esri and GPS applications from Trimble, specialty software like the TerrSet geospatial monitoring and modeling software suite, the latest in virtualization technologies from VMWare, and an ever-growing suite of open sources tools and plugins. All of the aforementioned computer

facilities are supported by Dornsife College Technology Services and a dedicated systems administrator housed in the Spatial Sciences Institute. The Spatial Sciences Institute is also an Esri Development Center, National Geospatial Intelligence Agency and United States Geological Survey Academic Center of Excellence, and a founding member of the UNIGIS International Association, a worldwide consortium of 10+ institutions which collaborates on the development and delivery of online geographic information science academic programs.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Students already enrolled at the University of Southern California can major in Geodesign or Global Geodesign and minor in GIS and Sustainability, Human Security and Geospatial Intelligence, or Spatial Studies.

GRADUATE: Online M.S. degrees are offered for students specializing in Geographic Information Science & Technology (GIST) or Human Security and Geospatial Intelligence (HSGI) and Graduate Certificates are offered for students specializing in Geographic Information Science & Technology, Geospatial Leadership, and Geospatial Intelligence. These graduate programs draw on the experience and expertise of an active research faculty as well as the resources and opportunities afforded by a major research university located in a world-class metropolis. The minimum requirements for admission to the graduate programs are a B.A. or B.S. degree from an accredited institution and an overall grade point average of 3.0 or higher for all undergraduate work completed. Students are admitted to the GIST and HSGI M.S. degrees and three aforementioned Graduate Certificate programs all three semesters. Students interested in the M.S. in Spatial Data Science (SPDS) which is offered jointly by the Department of Computer Science and Spatial Sciences Institute should apply through the Department of Computer Science. Students interested in the M.S. in Spatial Economics and Data Analysis (SEDA), which is jointly offered by the Department of Economics and Spatial Sciences Institute, should apply through the Department of Economics. Students are admitted to the SEDA and SPDS M.S. degrees in fall and spring semesters. The Spatial Analytics Graduate Certificate serves students enrolled in a doctoral program at USC and the Population, Health and Place Ph.D. degree is an interdisciplinary program offered jointly by the Departments of Preventive Medicine and Sociology and the Spatial Sciences Institute. This program is administered by the Spatial Sciences Institute and students apply before 1 December each year for admission in the following fall semester.

FACULTY:

Jennifer Bernstein, Ph.D., University of Hawaii, 2017. Lecturer – American environmentalism, Western American environmental history, online teaching and learning, California geography

Yao-Yi Chiang, Ph.D., University of Southern California, 2010, Associate Professor (Research) — geospatial data integration, digital map processing, graphics recognition, pattern recognition, image processing

Steven D. Fleming, Ph.D., University of Georgia, 2004, Professor of the Practice of Spatial Sciences — geospatial intelligence, remote sensing, physical geography, GIS, cartography, photogrammetry

Karen K. Kemp, Ph.D., University of California Santa Barbara, 1992, Professor of the Practice of Spatial Sciences — spatial analysis, environmental modeling, GIS for the humanities, GIS professional competency

Su Jin Lee, Ph.D., University of Southern California, 2012, Lecturer — GIS, remote sensing, human and environmental interaction, solar radiation modeling, terrain analysis, land use, land cover change

- Travis Longcore, Ph.D., University of California Los Angeles, 1999, Assistant Professor of Architecture, Spatial Sciences and Biological Sciences — urban bioresource management, conservation planning, ecological light pollution, endangered species
- Laura C. Loyola, Ph.D., University of Southern California, 2015, Lecturer and Director of Undergraduate Studies — GIS, human and evolutionary biology, anthropology, remote sensing
- Andrew Marx, Ph.D., University of Maryland, College Park, 2013, Associate Professor of the Practice of Spatial Sciences — geospatial intelligence, remote sensing, spatio-temporal analysis, human rights, GIS
- Katsuhiko (Kirk) Oda, Ph.D., Texas A&M University, 2011, Assistant Professor (Teaching) — spatial thinking, GIS education, GIS, walkability, spatial cognition
- Darren Ruddell, Ph.D., Arizona State University, 2009, Associate Professor (Teaching) — geospatial technologies, climate and society, human-environment interactions, geodesign, urban sustainability
- Elisabeth A. Sedano, Ph.D., University of Southern California, 2014, Lecturer — urban geography, web mapping, volunteered geographic information, outdoor advertising
- Jennifer N. Swift, Ph.D., Bogazici University Istanbul, 1995, Associate Professor (Teaching) — GIS, web GIS, mobile GIS, data modeling, geodesign, online education
- Robert O. Vos, Ph.D., University of Southern California, 1999, Assistant Professor (Teaching) and Director of Graduate Studies — industrial ecology, GIS assessment of carbon footprinting, environmental politics and policy
- John P. Wilson, Ph.D., University of Toronto, 1986, Professor, Department of Sociology and Director, Spatial Sciences Institute — geographic information science, geodesign, spatial analysis, environmental modeling, health
- An-Min Wu, Ph.D., University of Minnesota, 2014, Lecturer — soil science, geospatial technology, remote sensing, environmental GIS
- AFFILIATED FACULTY:**
- Jennifer Ailshire, Ph.D., University of Michigan, 2009, Assistant Professor (Davis School of Gerontology) — social determinants of health, health disparities, aging and the life course, social relationships, social demography, spatial methods, quantitative methods
- George Ban-Weiss, Ph.D., University of California, Berkeley, 2008, Assistant Professor (Department of Civil and Environmental Engineering) — global and regional climate modeling, effects of atmospheric particles and land-use on climate and air quality
- François Bar, Ph.D., University of California, Berkeley, 1990, Associate Professor (Annenberg School for Communication) — social and economic impacts of information technologies, telecommunication policy, user driven innovation, technology appropriation
- Myles G. Cockburn, Ph.D., University of Otago, 1999, Professor (Department of Preventive Medicine) — health GIS, cancer epidemiology, environmental epidemiology, melanoma, prostate cancer
- Elizabeth Currid-Halkett, Ph.D., Columbia University, 2006, Associate Professor (Price School of Public Policy) — city data, economic geography, economic development, cultural economy, social networks
- Maged Dessouky, Ph.D., University of California, Berkeley, 1992, Professor and Director (Department of Industrial and Systems Engineering) — production and operations management, modeling of manufacturing processes and systems, operations research applications to industrial systems
- Philip J. Ethington, Ph.D., Stanford University, 1989, Professor (History and Political Science) and Co-Director, Center for Transformative Scholarship — digital humanities, cartography, urban history, visual culture, immigration, race relations
- Laura Ferguson, Ph.D., London School of Hygiene and Tropical Medicine, 2011, Assistant Professor (Department of Preventive Medicine) — global health, human rights, population health, health systems
- Brian Finch, Ph.D., University of Texas at Austin, 2000, Professor (Research) (Sociology) — social demography, social epidemiology, social stratification and inequality, social statistics
- Meredith Franklin, Ph.D., Harvard University, 2007, Assistant Professor (Department of Preventive Medicine) — spatial statistics, environmental statistics, atmospheric science
- Yolanda Gil, Ph.D., Carnegie Mellon University, 1992, Research Professor and Associate Director of Data Science for Joint Degrees (Department of Computer Science) — artificial intelligence, discovery informatics, scientific workflows, social knowledge collection, knowledge management
- Sofia Gruskin, J.D., Yeshiva University, 1990, Professor (Department of Preventive Medicine, Gould School of Law) — health and human rights, global health and population, reproductive health
- Jennifer Hook, Ph.D., University of Washington, 2006, Associate Professor (Sociology) — family demography, gender, inequality, work-family, social policy, child welfare, comparative sociology
- Matthew E. Kahn, Ph.D., University of Chicago, 1993, Professor and Chair, Department of Economics — environmental economics, economic development, sustainability, climate change, urban growth
- Craig A. Knoblock, Ph.D., Carnegie Mellon University, 1991, Professor (Research) (Computer Science) and Interim Director of the Information Sciences Institute — data extraction from the Web, information gathering, artificial intelligence
- Lon Kurashige, Ph.D., University of Wisconsin, Madison, 1994, Professor (Department of History) — Asian-American history, emigration/immigration, racial ideologies, ethnic identity politics
- Vanessa Osborne, Ph.D., University of California, Irvine, 2007, Writing Lecturer (Writing Program) — 20th Century American literature, popular culture
- Ann Owens, Ph.D., Harvard University, 2012, Associate Professor (Department of Sociology) — spatial analysis, quantitative analysis, urban sociology, social stratification, social policy
- Nathan Perl-Rosenthal, Ph.D., Columbia University, 2011, Associate Professor (History) — political and cultural history, eighteenth century North Atlantic, revolutions
- Mansour Rahimi, Ph.D., Virginia Polytechnic Institute, 1982, Associate Professor (Department of Industrial and Systems Engineering) — engineering sustainable systems, industrial ecology, design for environment, eco-industrial development
- Alexander Robinson, M.L.A., Harvard University, 2005, Assistant Professor (School of Architecture) — GIS mapping, landscape architecture design, landscape performance and infrastructure
- Kelly T. Sanders, Ph.D., University of Texas at Austin, 2013, Assistant Professor (Department of Civil and Environmental Engineering) — analytical modeling of urban and agricultural systems; sustainable energy, water, and waste management
- Cyrus Shahabi, Ph.D., University of Southern California, 1996, Professor and Chair, Department of Computer Science (Departments of Computer Science and Electrical Engineering) — databases, GIS, multimedia
- Emily Smith-Greenaway, Ph.D., Penn State University, 2014, Assistant Professor (Sociology) — demography, infant and child mortality, African studies, health services

COLORADO

COLORADO STATE UNIVERSITY

DEPARTMENT OF ANTHROPOLOGY

DEGREES OFFERED: Geography major (B.S.)

CHAIR: Dr. Michelle Glantz

GEOGRAPHY COORDINATOR: Dr. Jason Sibold

FOR FURTHER INFORMATION PLEASE CONTACT:

Colorado State University, Anthropology Department, 1787 Campus Delivery, Fort Collins, CO 80523. Telephone (970) 491-5447. Fax (970) 491-7597. E-mail: cla-anthro_info@mail.colostate.edu.

PROGRAMS AND RESEARCH FACILITIES: Geography at CSU focuses on providing undergraduate students with a broad background in geographic thinking with an emphasis on the traditional geographic focus of understanding dynamic interaction between human and the environment in an era of rapid global change. Faculty use a range of research methods including geographic information systems (GIS), remote sensing, spatial modeling, and dendrochronology to address applied research questions in Colorado, the Rocky Mountains, Southeast Asia, Mesoamerica, Melanesia, and southern South America. Research focus areas include:

- Biogeography
- Climate change implications for society and ecosystems
- Conservation
- Land change science (land-use and land-cover change)
- Livelihood systems
- Mountain geography

A new major (B.S.) in Geography is an option within the Department of Anthropology. Current courses offered range from introductory courses that introduce students to geography and the two main branches of human and physical geography, to advanced courses which focus on methods (e.g. spatial analysis and GIS, remote sensing) and topical subjects such as climate change, forest ecology, mountain geography, the geography of commodities, political geography and land change science.

Biogeography Lab: This laboratory is focused on research and teaching centered on forest dynamics and change in the context of anthropogenic land use, climate variability and change, and biophysical variables. The lab has computers and software for spatial analysis with GIS and remote sensing, and equipment to process and analyze tree-ring samples.

The Geospatial Lab: The Geospatial Lab supports the use of Geographic Information Sciences by students within the College of Liberal Arts (CLA) at Colorado State University. Students can use lab resources in support of their research and class projects. The lab also is used for courses on the use of Geographic Information Systems and Remote Sensing (GIS & RS). The courses introduce students to the uses of GIS & RS across a range of academic disciplines found at CSU. Besides those taking classes associated with the Geospatial Lab over 75 students from across the CLA departments make use of the lab each semester to utilize its capabilities for carrying out spatial analysis related to their research and to print maps and posters for presentation at conferences.

The Remote Sensing and Land Change Science Lab: This lab is focused on utilizing remote sensing and GIS tools to investigate land-cover and land-use changes and the drivers of these changes. Students and professors are currently investigating land changes in Asia

(Vietnam, Laos, Thailand, Tibet/China), Africa (Madagascar), Melanesia (the Island of New Guinea), and North America (United States (Colorado and Alaska), Mexico, and Honduras). This laboratory has five computers running GIS software (ArcGIS) and remote sensing software (ENVI, ERDAS Imagine, Leica Photogrammetry System, and eCognition).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Colorado State University is on a semester plan. Admission requirements are available from: Director of Admissions, Office of Admissions, Colorado State University, Fort Collins, CO 80523 (<http://admissions.colostate.edu/>). Financial Aid information may be obtained from Student Financial Services, Financial Aid Office, Centennial Hall (<http://sfs.colostate.edu/>).

FACULTY:

Andrew Bliss, Ph.D., University of California, Berkeley, 2011 — glaciology, climatology, hydrology, geomorphology
Heidi Hausermann, Ph.D., University of Arizona, 2010 — political ecology, agrarian change, land-use change, critical health geographies
Merrill Johnson, Ph.D., University of Georgia, 1981 — political, economic, geography and virtual worlds, Latin America
Stephen Leisz, Ph.D., University of Copenhagen, Copenhagen, Denmark, 2007 — remote sensing technologies, land change science, climate change
John Lindenbaum, Ph.D., University of California, Berkeley, 2009 — cultural geography, commodities, hunger, food
Jason Sibold, Ph.D., University of Colorado, Boulder, Colorado, 2005 — biogeography, forest biogeography, climate change, conservation

FRONT RANGE COMMUNITY COLLEGE

DEPARTMENT OF SOCIAL SCIENCE (BOULDER COUNTY CAMPUS), DEPARTMENT OF SOCIAL AND BEHAVIORAL SCIENCES (LARIMER CAMPUS), DEPARTMENT OF SCIENCE AND TECHNOLOGY (WESTMINSTER CAMPUS)

DATE FOUNDED: 1968

DEGREES OFFERED: A.A. in Geography

DEGREES GRANTED (Or Expected) 9/1/17 – 8/31/18: 6

MAJORS: 22

CHAIR: Spencer Morrison (Boulder County Campus), Jeanette Mobley-Tanaka (Larimer Campus), Clara Wentz (Westminster Campus), Cory Reinking (online learning)

PROGRAM ADMINISTRATIVE ASSISTANT: Mary Torbett (Boulder County Campus), Brenda Stroman (Larimer Campus), LaVerne Loechel (Westminster Campus)

PROGRAMS AND RESEARCH FACILITIES: The geography discipline offers introductory coursework in physical geography (with lab), human geography, world regional geography, human ecology, and global climate change. Most coursework is guaranteed to transfer to any public four-year college or university in the state of Colorado. A careers course focuses on internships, careers, and research in the geosciences. The Larimer Campus hosts a dedicated geography laboratory classroom, and G.I.S. coursework and lab space are offered at all three campuses.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The A.A. with Geography Designation is part of a statewide articulation agreement that allows geography students to

transfer credits towards fulfilling degree requirements in geography or related programs at Adams State University, University of Colorado Boulder, University of Colorado Colorado Springs, University of Colorado Denver, Metropolitan State University of Denver, and University of Northern Colorado. In addition, most coursework will fulfill degree requirements in geography at Colorado State University. Students completing the A.A. in geography are expected to take two lecture/lab courses in physical geography, one in human geography, and one in world regional geography, as well as fulfill other first and second year core courses and elective requirements generally required for an A.A. or B.A. degree.

Front Range Community College is a member of the Colorado Community College System with three main campuses in Fort Collins (Larimer Campus), Longmont (Boulder County Campus) and Westminster (Westminster Campus) and satellite campuses in Brighton and Loveland. Admission and financial aid requirements for the geography major are the same as for the college. FRCC has been recognized nationally by the Aspen Institute for high success rates for students transferring to four-year colleges and by Military Friendly, which ranked FRCC as the top veteran friendly college in the large community college category. A number of scholarship opportunities are available to students through the FRCC Foundation and a number of other college and state programs.

FACULTY:

Michael Castellon, Ph.D., University of Wisconsin, 1996 – human geography, world regional geography, Latin America
Ian Feinhandler, Ph.D., University of Colorado, 2006 – political geography, international development, South Asia
Max Miller, M.S., University of Wyoming, 2009 – G.I.S., cartography, physical geography
Patrick Shabram, M.A., San Jose State University, 1998 – physical geography, climate change, viticulture

UNITED STATES AIR FORCE ACADEMY

DEPARTMENT OF ECONOMICS AND GEOSCIENCES

DATE FOUNDED: 1964

DEGREES OFFERED: B.S.

GRANTED 9/1/17-5/31/18: 41

MAJORS: 155

DEPARTMENT HEAD: Colonel Jennifer C. Alexander, USAF

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Office of the Registrar, U.S. Air Force Academy, HQ USAFA/DFEG (Economics and Geosciences), 2354 Fairchild Drive, Suite 6K110, USAF Academy, Colorado, 80840-6299. Telephone (719) 333-3080. Fax (719) 333-7137.

E-Mail: Steve.Gordon@usafa.edu.

Internet: <https://www.usafa.edu/departments/economics-geosciences/>.

PROGRAMS AND RESEARCH FACILITIES: The mission of the United States Air Force Academy is to educate, train and inspire men and women to become officers of character, motivated to lead the United States Air Force in service to our nation. The Air Force Academy vision is to be the Air Force's premier institution for developing leaders of character.

The Geosciences program administers the Geospatial Science major (in full), the Foreign Area Studies-Geoscience major (interdisciplinary) and the Meteorology major (in conjunction with the Department of Physics).

Geospatial Science graduates distinguish themselves from other graduates by the conceptual framework in which they view the world. They leverage knowledge of cultural and physical processes and digital modeling techniques to focus on the effects of space and place and interpret any landscape using an inherently geospatial approach.

The outcomes of the Geospatial Science major are: 1) Formulate a geospatial question, 2) Describe and explain the relevant physical and human data needed to answer a geospatial question, 3) Acquire useable and relevant geospatial data, 4) Process geospatial data to produce a useable and relevant result, 5) Interpret the patterns, processes and/or interrelationships represented by geospatial data/information, and 6) Effectively defend your interpretation or recommendation.

The Department of Economics and Geosciences also administers a professional certificate in geospatial intelligence (GEOINT) that is accredited by the United States Geospatial Intelligence Foundation (USGIF). The Department maintains the Geospatial Analysis Laboratory, a state-of-the-art resource for faculty and cadet research and coursework in geospatial analysis and remote sensing. The USAFA Meteorology Laboratory is also housed in the Department for faculty and cadet research in Meteorology and GIS.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Semester System. Admissions are extremely competitive with most students graduating near the top of their high school classes. A candidate must be a US citizen, must pass high academic standards, and must receive a nomination from his or her Federal senator or representative. Applications may be obtained from the Office of the Registrar, United States Air Force Academy, USAF Academy, CO, 80840 and more information can be found at <http://www.academyadmissions.com/>. All students are members of the United States Air Force and therefore receive salary and expenses. All graduates receive the B.S. degree and a commission as an officer in the USAF.

FACULTY:

Jennifer C. Alexander, Ph.D., University of Utah, 2004, Permanent Professor and Head — numerical weather prediction, aviation meteorology
Eric J. Cercone, M.S., Naval Postgraduate School, 2007, Assistant Professor — meteorology, GIS, climatology
Justin D. Cook, M.A., University of Colorado, 2015, Instructor — population geography, human geography, GIS, geopolitics
Steven J. Gordon, Ph.D., Arizona State University, 1999, Associate Professor and Director of Geosciences — geomorphology, GIS, rock weathering, microclimatology
Carl Frohman, M.A., University of Minnesota, 2001, Instructor — Asian geography, international relations, military geography
Terrence W. Haverluk, Ph.D., University of Minnesota, 1993, Professor — cultural geography, historical geography, North America, geopolitics
Thomas L. Koehler, Ph.D., University of Wisconsin, 1979, Associate Professor — synoptic and mesoscale meteorology, satellite meteorology
David Manhire, M.A., Ohio University, 1998, Instructor — population geography, human geography, geopolitics, regional geography
Daniel Portillo, B.S., Lamar University, 1982, GIS Specialist/Cartographer — computer cartography, GIS, remote sensing
Sarah E. Robinson, Ph.D., Arizona State University, 2002, Assistant Professor — desert geomorphology, remote sensing, geochronology
Joseph Rozak, M.S., Naval Postgraduate School, 2009, Instructor and Director of Meteorology — meteorology, GIS, climatology
Elizabeth A. Simpson, M.A., American Military University, 2012, Instructor — GIS, GEOINT
Patricia Vollmer, M.S., Air Force Institute of Technology, 2002, Assistant Professor — geopolitics, meteorology, math, physics

UNIVERSITY OF COLORADO, BOULDER

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1927

GRADUATE PROGRAM FOUNDED: 1930

DEGREES OFFERED: B.A., M.A., Ph.D.

GRANTED 12/2016-08/2017: 53 Bachelors (UC Boulder only), 7 Masters, 12 Ph.D

STUDENTS IN RESIDENCE: 114 Majors, 23 Masters, 48 Ph.D.

NOT IN RESIDENCE: 11 Ph.D.

CHAIR: William Riebsame Travis

DEPARTMENT ADMINISTRATIVE ASST: Darla Shatto

FOR PROGRAM BROCHURES, WRITE TO: Department of Geography, 260 UCB, University of Colorado Boulder, Colorado 80309-0260. Telephone (303) 492-2631 (Undergraduate); (303) 492-8311 (Graduate). Fax (303) 492-7501. Internet: <http://geography.colorado.edu>

PROGRAMS AND RESEARCH FACILITIES: The program aims to train scholars who will produce geographical knowledge, and professionals with outstanding promise for success in the public and private sectors. The program offers advanced training, including formal course instruction, research guidance, and other professional experiences, in physical geography, human geography, GIScience, and environment- society geography. Research strengths include political ecology, natural hazards, and human dimensions of climate change; development geography, indigenous studies, medical and health geography, quantitative spatial analysis, and political geography; hydrologic science, climatology, cryospheric science, and biogeography; and geovisualization, remote sensing, and spatio-temporal modeling. Although students' programs are individualized, each must demonstrate a command of the history and nature of the discipline, and of a variety of modes of analysis and of geographic skills.

The department maintains teaching and research relationships with the Institute of Behavioral Science (IBS), the Institute of Arctic and Alpine Research (INSTAAR), the Cooperative Institute for Research in Environmental Sciences (CIRES), and the National Center for Atmospheric Research (NCAR). A host of other federal, state, and metropolitan agencies in the vicinity offer opportunities to the student. A department Internship Program is available for undergraduate students in Geography.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Semester plan. For more information about undergraduate admissions, how to apply, and the selection process, visit colorado.edu/admissions. For information about scholarships and financial aid, visit colorado.edu/financialaid.

GRADUATE: Semester plan. Prospective students should have interests coincident with those of the faculty and strong preparation in the physical or social sciences, but not necessarily in geography. In addition to department approval, an applicant for admission as a regular degree student must (1) hold a baccalaureate degree from a college or university of recognized standing for M.A. admission, and a Master's degree for Ph.D. admission, or have comparable preparation to enter graduate study; (2) show promise of ability to pursue satisfactorily advanced study and research, and have at least a 3.25 undergraduate GPA on a 4.0 system. In addition, strong GRE verbal, quantitative, and analytical scores are required.

Financial aid may be available in the form of Teaching and Research Assistantships and University Fellowships. The application deadline is December 1.

FACULTY:

Waleed Abdalati, Ph.D. University of Colorado, 1996, Professor and Faculty Director of CIRES — remote sensing of Earth's ice cover

Suzanne P. Anderson, Ph.D. UC-Berkeley, 1995, Professor — geomorphology, hydrology, weathering, glaciology

Jennifer Balch, Ph.D. Yale, 2008, Assistant Professor — role of fire in the earth system, global change ecology, tropical forest ecology

Holly R. Barnard, Ph.D. Oregon State University, 2009, Associate Professor — ecohydrology, forest hydrology, tree physiology, stable isotope geochemistry

Peter D. Blanken, Ph.D. University of British Columbia, 1997, Professor — biometeorology, climatology, energy/ water/carbon exchange

Joseph H. Bryan, Ph.D. UC- Berkeley, 2007, Associate Professor — critical cartography, indigenous politics in the Americas, human rights, development, struggles over territory

Barbara P. Buttenfield, Ph.D. University of Washington, 1984, Professor — GIS modeling, cartographic generalization, scale, visualization

Carson Farmer, Ph.D. National University of Ireland, Maynooth, 2011, Assistant Professor — computational GIScience, spatio-temporal dynamics, spatial analysis methods in data-intensive/big data research, open source software, transportation

Jennifer Fluri, Ph.D. Pennsylvania State University, 2005, Associate Professor — feminist geopolitics, development and security, gender, housing, Afghanistan, south Asia

Mara Goldman, Ph.D. University of Wisconsin, 2006, Associate Professor — political ecology, Science and Technology Studies, indigenous knowledge, pastoralism, conservation, East Africa and India

Stefan Leyk, Ph.D. University of Zurich, 2005, Associate Professor — GIScience, uncertainty modeling, small area estimation, cartographic pattern recognition, land cover change, spatial dynamic modeling

Katherine B. Lininger, Ph.D. Colorado State University, 2018, Assistant Professor — fluvial geomorphology, ecogeomorphology, hydrology, river management

Noah P. Molotch, Ph.D. University of Arizona, Tucson, 2004, Associate Professor — surface water and snow hydrology, ecohydrology, remote sensing

Timothy Oakes, Ph.D. University of Washington, 1995, Professor — cultural geography, cultural politics, China, tourism, heritage politics, urbanization

John V. O'Loughlin, Ph.D. Pennsylvania State University, 1973, Professor — political geography, former Soviet Union, nationalism, post-Communist societies, climate change and political violence in sub-Saharan Africa

Colleen Reid, Ph.D. UC-Berkeley, 2014, Assistant Professor — health effects of climate change, environmental and social epidemiology, spatial exposure assessment

Fernando Riosmena, Ph.D. University of Pennsylvania, 2005, Associate Professor — Mexico-US migration, social demography, international migration and health, Latin America, informal economy

Mark Serreze, Ph.D. University of Colorado, Boulder 1989, Professor and Director of National Snow and Ice Data Center — Arctic climate change, sea ice, science communication, cryosphere variability and climate change

Seth Spielman, Ph.D. SUNY Buffalo, 2008, Associate Professor — Geographic data science, spatial statistics, demographic and economic estimates, American cities

William Riebsame Travis, Ph.D. Clark University, 1981, Associate Professor — natural hazards, extreme events, decision-making for climate change, risk, American West

Yaffa Truelove, Ph.D. University of Cambridge, 2015, Assistant Professor — urban geography, water politics, feminist political geography, cities of the Global South, India
Thomas T. Veblen, Ph.D. UC-Berkeley, 1975, Professor — biogeography, forest ecology, fire dynamics and climate change, Latin America, New Zealand, dendrochronology, US West
Emily Yeh, Ph.D. UC-Berkeley, 2003, Professor — political ecology, Chinese development, Tibet and Himalayas, cultural politics and political economy

ASSOCIATED FACULTY:

Max Boykoff, Adjunct Associate Professor
Clint Carroll, Adjunct Assistant Professor
Paul Lander, Adjunct Assistant Professor
John Lenters, Adjunct Professor
Tania Schoennagel, Adjunct Assistant Professor
Gregory Simon, Adjunct Associate Professor
Leah Wasser, Adjunct Assistant Professor

EMERITI FACULTY:

Nelson Caine — hydrology, geomorphology
Susan W. Beatty — plant ecology, biogeography, soils, disturbance effects on landscape
Kenneth E. Foote — American and European landscape history, computer techniques and Internet applications, learning and teaching geography in higher education
John Pitlick — surface water hydrology, fluvial geomorphology, water resources
Andrei Rogers — population, migration
Konrad Steffen — remote sensing, climatology
Mark W. Williams — hydrology, snow hydrology, alpine biogeochemistry, water chemistry, snow chemistry

UNIVERSITY OF COLORADO, COLORADO SPRINGS

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL STUDIES

DATE FOUNDED: 1973

DEGREES OFFERED: B.A., M.A. in Applied Geography

GRANTED 8/20/2016-5/20/2017: 40 B.A.; 4 M.A.

STUDENTS IN RESIDENCE: 200 Majors; 15 M.A.

CHAIR: Emily Skop

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography and Environmental Studies, University of Colorado, 1420 Austin Bluffs Parkway, Colorado Springs, CO 80918. Telephone: (719) 255-3016. Fax: (719) 255-4066. E-mail: evogt@uccs.edu.

PROGRAMS AND RESEARCH FACILITIES: The University of Colorado at Colorado Springs is a growing campus of approximately 11,200 students located along the Colorado Front Range. The Department of Geography and Environmental Studies offers a B.A. in Geography and Environmental Studies and an M. A. in Applied Geography. Areas of emphasis in the department are physical systems; human and cultural dynamics; environmental and sustainability studies; and geospatial techniques.

ACADEMIC PLAN AND ADMISSION REQUIREMENTS:

UNDERGRADUATE: There are six required courses and four optional tracks: Human and Cultural Dynamics, Physical Systems, Environmental and Sustainability Studies, and GIScience. A maximum of 54 credit hours in Geography and Environmental Studies classes may be taken by a major in Geography and Environmental Studies. All students must take a capstone course before graduation.

GRADUATE: The goal of the program is to provide graduate level education that enables students to address community concerns through applied geographic research. Graduates of this M.A. program will have an understanding of and appreciation for the interactions between the human and natural world; skills to synthesize, analyze, and evaluate diverse social and physical information; ability to conceptualize spatial relationships for problem solving; and communication skills to clearly present solutions or recommendations. Admission of students to the M.A. in Applied Geography program requires applicants to hold a baccalaureate degree or a master's degree from an accredited college or university; have an undergraduate grade point average of 3.0 or better ("A" is equal to 4.0); complete the GRE General Test; provide 3 letters of recommendation; and provide two copies of official transcripts from all institutions attended.

Students may complete either a thesis option or a non-thesis option for the M.A. in Applied Geography. The department strongly encourages students to fulfill the thesis option that consists of 24 credits of coursework and 6 credits of thesis. All students must take GES 5770: History and Nature of Geography during their first fall semester and GES 5010: Seminar in Geographic Research during the subsequent spring semester.

For more information, please see our departmental web page at <http://www.uccs.edu/geography/>. Follow the MA Program links. Also, you may contact David Havlick, Graduate Director at (719) 255-4906 or dhavlick@uccs.edu.

FACULTY:

Christine Biermann, Ph.D., Ohio State University, 2014, Assistant Professor — critical physical geography, socioecological forest dynamics, biodiversity conservation, political ecology
Diep Dao, Ph.D., University of North Carolina – Charlotte, 2013, Assistant Professor — Geographic Information Science, Spatial analysis and modeling, urban regional analysis, GPS
Cerian Gibbes, Ph.D., University of Florida, 2011, Associate Professor — Human-environment, remote sensing, climate/land interactions, socio-ecological implications of conservation strategies
John Harner, Ph.D., Arizona State University, 1996, Professor — cultural, urban, GIS, Mexico
David Havlick, Ph.D., University of North Carolina, 2006, Professor — political ecology, militarization, ecological restoration and conservation
Curt Holder, Ph.D., Clark, 2000, Professor — ecohydrology, human-environment interactions, Latin America
Steven Jennings, Ph.D., University of California, Davis, 1989, Associate Professor — biogeography, geography education, mountain environments
Emily Skop, Ph.D., Arizona State University, 2002, Professor and Chair — urban, population, ethnic
Rebecca Theobald, Ph.D., University of Colorado, 2007, Assistant Research Professor — geography of education, community geography, urban governance and public services
Brandon Vogt, Ph.D., Arizona State University, 2007, Associate Professor — geomorphology, mountain systems, lightning/landscape interactions, Colorado, geovisualization, lidar
Eric Billmeyer, M.A., University of Colorado, 2004, Senior Instructor — fluvial geomorphology, restoration, sedimentology, geospatial tools
Marie Hoerner, Ph.D., University of Chicago, 2017, Instructor — paleoclimate, paleoecology, sedimentary geology
Carole J. Huber, M.A., University of Colorado, 1992, Senior Instructor — world regional, sustainability, sense of place
Michael P. Larkin, M.S., University of Colorado at Boulder, 2000, Senior Instructor — cultural geography, human geography
Devin Moeller, ABD, University of Northern Illinois, Instructor and Geospatial Lab Director — energy studies, life cycle assessment, applied geospatial technologies

EMERITAE:

Eve Gruntfest, Ph.D., University of Colorado, 1982, Professor Emerita
— natural hazards, weather and society integrated studies
Thomas P. Huber, Ph.D., University of Colorado, 1980, Professor Emeritus
— geomorphology, remote sensing, Colorado/mountain environments
Robert P. Larkin, Ph.D., The Pennsylvania State University, 1973, Professor Emeritus — population, geographic education

UNIVERSITY OF COLORADO, DENVER

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL SCIENCES

DATE FOUNDED: 1975

DEGREES OFFERED: B.A. in Geography, M.S. in Environmental Sciences, M.A. in Applied Geography and Geo-Spatial Science

GRANTED 9/1/16–8/31/17: 45 B.A. in Geography, 16 M.S., 4 in M.A.

STUDENTS IN RESIDENCE: 173 Majors, 53 Masters

CHAIR: Brian Page

DEPARTMENT PROGRAM ASSISTANT: Sue Eddleman

DEPARTMENT ADMINISTRATIVE ASSISTANT: Meron Ayele

FOR CATALOG AND UNDERGRADUATE APPLICATION:

Admissions, University of Colorado Denver,
<http://www.ucdenver.edu/apply/>. For program brochures and other department information including admission to the graduate program contact: Department of Geography and Environmental Sciences, University of Colorado Denver, Downtown Denver Campus, Box 172, PO Box 173364, Denver, CO, 80217-3364. Telephone: 303-315-7525. Internet: <http://clas.ucdenver.edu/ges>

PROGRAMS AND RESEARCH FACILITIES: CU Denver is a dynamic university consisting of 13 schools and colleges and 140 programs spread over two campuses. Located in Downtown Denver, the Department of Geography and Environmental Sciences offers a BA in Geography, an MS in Environmental Science, and an MA in Applied Geography and Geo-Spatial Science. The department also offers certificates in: GISci, a Sustainable Urban Agriculture, and Environmental Science Education. Department strengths coalesce around the study of human-environment interaction, emphasizing historic and contemporary climate change, landscape transformation, the conservation and management of cultural and natural resources, political ecology, environmental history, natural hazards and disaster management, urban sustainability, and environmental health.

The department forms the core of GIS activity on campus and is a key player in the Facility for Advanced Spatial Technology (FAST) lab, which is a multidisciplinary laboratory providing state-of-the-art geo-spatial science technology for teaching. The lab has site licenses for the most advanced GIS, image processing and database management software available in the industry. In addition, the department has a new research-dedicated geo-spatial science laboratory and a community engagement studio space. Other department research facilities include: the Five Fridges Farm Field Research Station, a 13 acre urban farm near downtown used to support the department's program in urban agriculture; an environmental hydrology laboratory; and a climate science laboratory.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester plan. For admissions information, please see: <http://www.ucdenver.edu/apply/>. For financial aid, please see: <http://www.ucdenver.edu/aid/>

FACULTY:

Peter Anthamatten, Ph.D., Minnesota, 2007, Associate Professor — medical geography, spatial analysis, cartography, GIS, nutrition, geographic education
Christy Briles, P.D., University of Oregon, 2008, Assistant Professor — paleoecology, biogeography, climate change, palynology
Frederick B. Chambers, Ph.D., Arizona State, 1990, Associate Professor — glacier-climate interrelationships, boundary layer climatology
Yi-Chia Chen, Ph.D., Louisiana State University, Instructor -- political/cultural ecology; representation of heritage landscapes; geography of heritage tourism; construction of place identities
Anne Chin, Ph.D., Arizona State, 1994, Professor — fluvial geomorphology, hydrology, environmental geomorphology
Matthew Cross, Ph.D., University of Colorado Denver, 2018, Instructor — remote sensing, GIS, climatology
Rudi Hartmann, Ph.D., Munich, 1983, Associate Clinical Teaching Track Professor — world regional geography, Europe, China, tourism planning, geographic education
Pamela Jansma, Ph.D., Northwestern, 1988, Professor and Dean — geosciences, Global Positioning System, active tectonics of the Caribbean region
Rafael Moreno-Sanchez, Ph.D., Colorado State, 1992, Associate Professor — land use planning, natural resources management, GIS modeling, internet mapping, Mexico
Brian Page, Ph.D., California-Berkeley, 1993, Associate Professor — political economy of natural resource development, historical geography, cultural landscape studies, urban geography
Gregory Simon, Ph.D., Washington, 2007, Associate Professor — environmental governance, political ecology, science studies, political economy of development, environmental history, India, US West
Amanda Weaver, Ph.D. University of Denver, 2014, Sr. Instructor — urban geography, GIS, geographic education
Bryan Wee (Wee Shao-Chang, Bryan; Wee Shao-Zhang, Bryan) Ph.D., Purdue, 2007, Associate Professor — environmental education, sustainability, cultural geography

EMERITI FACULTY:

Wes LeMasurier, Ph.D., Stanford, 1965 — igneous petrology, volcanology, volcanic geology of Antarctica
John Wyckoff, Ph.D., Utah, 1980, Associate Professor — landscape ecology/biogeography, environmental remote sensing, GIS

UNIVERSITY OF DENVER

DEPARTMENT OF GEOGRAPHY & THE ENVIRONMENT

DATE FOUNDED: 1945

GRADUATE PROGRAM FOUNDED: 1947

DEGREES OFFERED: B.A., M.A., Ph.D. in Geography; M.S. in GISc (on-campus and on-line); B.A., B.S. in Environmental Science

GRANTED 9/1/17-8/31/18: 43 Bachelors (Geography), 11 Bachelors (Environmental Science), 22 Masters, Ph.D.

GEOGRAPHY STUDENTS IN RESIDENCE: 57 Majors, 12 Masters, 10 Ph.D.

NOT IN RESIDENCE: 52 Masters

ENVIRONMENTAL SCIENCE STUDENTS IN RESIDENCE: 128 Majors

CHAIR: Michael Keables

DEPARTMENT ASSISTANT TO THE CHAIR: Nicole Chauvet

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Department of Geography, University of Denver, 2050 E.

Iliff Ave., Denver, Colorado 80208. Telephone (303) 871-2513. Fax (303) 871-2201. Internet: www.du.edu/geography.

PROGRAMS AND RESEARCH FACILITIES: The University of Denver is the oldest independent university in the Rocky Mountain region, and has a total enrollment of over 12,000 students. Its location within a large metropolitan area in close proximity to the Rocky Mountains provides an ideal laboratory for physical and human geographers alike. At the undergraduate level, the Department offers a Geography major and minor, an Environmental Science major and minor, and minors in Geology, Geographic Information Science, Sustainability, and Tourism. At the graduate level, the Department offers both the Master's and Doctoral degrees in Geography, with particular strength in the areas of biogeography, climatology, economic geography, geographic information science, geomorphology, global change, human environment interaction, Latin America, population, Quaternary studies, transportation geography, and urban geography. The Department also offers on-campus and on-line Master of Science degrees in Geographic Information Science. The applied aspects of each area are emphasized to enhance vocational opportunities for graduates. A paid internship program is available with municipal, state, and federal agencies and private firms located in the Denver area for physical geography, human geography, and geographic information science students at both the graduate and undergraduate levels. Facilities at the University and within the Department provide a wide variety of teaching and research opportunities. Departmental lab facilities include a 24-seat GIS instructional lab, a 14-seat Advanced GIS Lab, a Palynology Lab, Soils Lab, Remote Sensing Lab, Climatology Lab, and a Special Projects Lab. The Department maintains an inventory of mapping grade GPS equipment and GPS processing software. We currently maintain 10 Trimble Juno SB handheld GPS units and several Garmin handheld GPS devices, as well as an ASD Spectroradiometer. The Department also maintains a community GPS base station serving the Front Range of Colorado. The University of Denver has an ESRI University Site License with most ESRI software products available. Students will find ArcInfo and Extensions installed in the GIS laboratories. We also maintain current licenses for ERDAS Imagine, ENVI, and other GIS and image processing software. In addition, the Department has an extensive map library and equipment for its geomorphology/soils/pollen laboratories.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: The program of study includes: 1) foundation courses, 2) a core of courses intended to provide each student with knowledge fundamental to geographers, and 3) an array of classes in the areas of human, physical, and GIScience, from which the students choose. Students can also register for our block of field courses in the Fall quarter. Courses taught in the field span geographic scales from the Denver metropolitan area to our field station on Mt. Evans, to developing landscapes in Guatemala or to examine relationships between humans and the environment in Europe, Nicaragua, and in the Sonora and Baja regions of Mexico. The university also provides an all-expense paid study abroad opportunity for all undergraduate students. Admission requires submission of high school and/or college transcripts, SAT or ACT scores, a personal essay, and recommendation(s) from previous teachers or counselors. The University has available a variety of financial aid opportunities for which most students can qualify.

GRADUATE: At the Doctoral level, a research-based dissertation is required, together with appropriate course work, tools, and comprehensive exam. Topical areas of focus include biogeography, climatology, economic geography, geographic information science, geomorphology, global change, human-environment interaction, Latin America, population, Quaternary studies, transportation, and urban geography. At the Master's level, the MA in Geography includes subfields within: (1) Physical Geography, (2) Human Geography, (3) Human-Environment Interaction, or (4) Geographic Information

Science. The department also offers both an on-campus and on-line MS degree program in geographic information science (MS-GISc). Geospatial technology areas include: automated cartography; geographic information systems; global positioning systems; image processing; remote sensing; air photo interpretation; and spatial analysis methods and modeling. In all cases, the Department prides itself in the ability to tailor individual programs to complement the student's interests within a basic framework of practical requirements. Because this is a relatively small department, the student has the opportunity to work closely with his/her advisor. Admission requires submission of appropriate academic transcripts, Graduate Record Examination scores, three letters of recommendation, and applicant's statement of interest. The Department has available a number of graduate teaching and research assistantships. The assistantships carry a stipend and full tuition scholarship plus health insurance coverage. No out-of-state fees are charged to the student.

FACULTY:

- E. Eric Boschmann, Ph.D., Ohio State University, 2008, Associate Professor* — urban, economic, commuting, mixed-methods, GIS
- J. Michael Daniels, Ph.D., University of Wisconsin, 2002, Associate Professor* — geomorphology, environmental change, soils, hydrology
- Andrew R. Goetz, Ph.D., Ohio State University, 1987, Professor* — transportation, urban geography/planning, economic geography
- Hillary Hamann, Ph.D., University of Colorado-Boulder, 2002, Teaching Professor* — hydrology, watershed biogeochemistry, physical geography, water resources, conservation
- Helen Hazen, Ph.D., University of Minnesota-Twin Cities, 2006, Teaching Associate Professor* — health and environment, environmental conservation
- Steven R. Hick, MA, University of Missouri, 1983, Professor of the Practice, Director, MS-GISc Program* — geographic information science, project management, cartography, criminology
- Michael J. Keables, Ph.D., University of Wisconsin-Madison, 1986, Associate Professor and Chair* — climatology, water resources, climate variability
- Michael W. Kerwin, Ph.D., University of Colorado, Associate Professor and Director, Environmental Science Program* — Quaternary geology, dendroclimatology
- Kristopher Kuzera, Ph.D., San Diego State University, University of California, Santa Barbara, 2011, Teaching Assistant Professor and Internship Program Director* — GIScience, Remote Sensing, Statistical Analysis
- Jing Li, Ph.D., George Mason University, 2012, Associate Professor* — geovisualization, spatiotemporal data modeling, high performance geocomputation, web-based GIS
- Hanson Nyantakyi-Frimpong, Ph.D., The University of Western Ontario, Canada, 2014, Assistant Professor* — human-environment interactions, climate change, environmental justice, Africa
- Rebecca L. Powell, Ph.D., University of California-Santa Barbara, 2006, Associate Professor* — human-environment interaction, remote sensing, statistics, land use/land cover, geographic information science (GISc)
- Donald G. Sullivan, Ph.D., University of California-Berkeley, 1989, Associate Professor* — Quaternary studies, biogeography, environmental change
- Paul C. Sutton, Ph.D., University of California-Santa Barbara, 1999, Professor* — geographic information science (GISc), ecological economics, human-environment interactions, population geography
- Matthew J. Taylor, Ph.D., Arizona State University, 2003, Professor and Director of Graduate Studies* — Latin America, political ecology, development
- Erika Trigoso Rubio, Ph.D., University of Oxford, 2010, Teaching Associate Professor* — vulnerability and adaptation to climate change, geographic information science, Latin America

Guiming Zhang, Ph.D., The University of Wisconsin-Madison, 2018, Assistant Professor — geographic information science (GISc), volunteered geographic information (VGI), big geospatial data, spatial analysis, predictive mapping.

ADJUNCT FACULTY:

Thomas Lavanchy, Ph.D., University of Denver, 2015, Visiting Teaching Assistant Professor — human-environmental interactions, hydrology, political ecology, Latin America, geographic information science (GISc), West African Sahel.

Michelle Moran-Taylor, Ph.D., Anthropology, Arizona State University, 2003, Adjunct Professor — cultural geography, cultural ecology, human migration

Martha Narey, Ph.D., University of Denver, 1999, Adjunct Professor — dendroclimatology, drought climatology, climate history, paleoenvironments, vegetation change, rural land use, American Indians

Sean Tierney, Ph.D., University of Denver, 2009, Adjunct Professor — economic geography, energy, transportation

EMERITUS FACULTY:

David B. Longbrake, Ph.D., University of Iowa, 1972, Professor Emeritus — urban geography, urban and regional planning, quantitative methods, global position systems, geographic information systems

Terrence J. Toy, Ph.D., University of Denver, 1973, Professor Emeritus — geomorphology, hillslopes, reclamation of disturbed lands, erosion

CONNECTICUT

MANCHESTER COMMUNITY COLLEGE

GLOBAL STUDIES DEPARTMENT

DATE FOUNDED: 1963

DEGREES OFFERED: A.A. or A.S. in Liberal Arts with an emphasis in Economics, Geography, History or Political Science, A.S. in General Studies

DEGREES GRANTED /1/17 – 8/31/18: ~40-50 A.A. degrees in Liberal Arts or General Studies with an emphasis in the Global Studies Disciplines.

MAJORS: None

CHAIR: Guocun Yang, PhD.

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Global Studies Department, MS#4, Manchester Community College, P.O. Box 1046, Manchester, CT 06045-1046. Telephone (860) 512-2760. Email: vkier@mcc.commnet.edu. Internet: manchestercc.edu

PROGRAMS AND RESEARCH FACILITIES: The Global Studies Department offers students the opportunity to pursue a Liberal Arts or General Studies degree with an emphasis in the disciplines of economics, geography, history or political science. If a student decides to further her education at one of Connecticut's State Universities, there are specific Transfer Programs in place (TAP) in each of these disciplines.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Admission to any of the TAP programs in the Global Studies Department is the same as that for admission to the College. In addition to the College General Education requirements, any student working toward a TAP degree is required to complete additional courses specific to the discipline. If the student is not

fulfilling a TAP degree, Liberal Art and General Studies students are encouraged to choose courses that are consistent and supportive to the discipline of interest.

FACULTY:

Valerie R. Kier, Ph.D., Indiana University, 1997, Professor — economic geography, trade, quantitative methods, cultural geography

UNIVERSITY OF CONNECTICUT

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1976

DEGREES OFFERED: B.A., B.S., M.A., Ph.D., Graduate Certificate in GIS

GRANTED 09/01/17-08/31/18: 6 Bachelors, 1 Masters, 4 Ph.D.

STUDENTS IN RESIDENCE: 20 Majors, 3 M.A., 24 Ph.D.

CHAIR: Chuanrong (Cindy) Zhang

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dean Hanink, Graduate Coordinator, Department of Geography, Unit 4148, 215 Glenbrook Road, Austin Building Room 422, University of Connecticut, Storrs, Connecticut 06269-4148. Telephone (860) 486-3656. Fax (860) 486-1348. E-mail: dean.hanink@uconn.edu. Internet: www.geography.uconn.edu

PROGRAMS AND RESEARCH FACILITIES: The Department offers programs leading to Ph.D., M.A., or B.A./B.S. degrees in Geography. It also offers both an online and blended graduate certificate in GIS. The Department offers a broad program in geography with long-standing strengths in GIScience, spatial analysis and statistics, location theory and economic geography. Current emphases of our program are sustainability, environment and planning; GIS and spatial analysis; society, space, and social change; and climate and environmental change. With respect to the MA and BA/BS degrees, the Department has created strong and flexible programs with a consistent emphasis on the development of marketable, professional skills with a focus on spatial analysis, quantitative and qualitative methodologies, and geographic information systems. The department has strong ties to other departments and programs across the university including, among others, the Center for Integrative Geosciences, the Environmental Studies Program, the Women's, Gender, and Sexuality Studies Program, Center for Environmental Sciences and Engineering; Institute for Collaboration on Health, Intervention, and Policy, Department of Civil and Environmental Engineering in the College of Engineering; Department of Natural Resources and the Environment in the College of Agriculture, Health and Natural Resources; the International Studies Association, the Connecticut State Data Center, Global Studies, and the Center for Excellence in Teaching and Learning.

As a department in a major research university, the support facilities are excellent. A Windows-based instructional lab is used for spatial analysis, GIS, and cartography. Graduate students have 24/7 access to a research computer lab, as well as access to a physical geography lab, survey and field equipment.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. B.A. requires eight geography courses plus four related electives; the B.S. has a six-course core with three electives. The Master of Arts degree has options for a thesis (24 credits of coursework) or coursework and a research paper (30 credits). The graduate certificate program (online and on-campus) consists of two core courses and two electives. The Ph.D. program normally involves a three to four year course of study with a minimum

15 credits of content coursework beyond the Master's degree, plus dissertation. Submission of GREs is strongly recommended for admission and required for applications for teaching and research assistantships. Applications for admission to the departments graduate and certificate programs are accepted any time during the year. However, applications for financial aid (teaching and research assistantships) are reviewed only once annually for applications received by December 15th each year.

FACULTY:

Carol Atkinson-Palombo, Ph.D., Arizona State, 2007, Associate Professor and Director, Environmental Studies — sustainable cities, urban transportation, renewable energy
William H. Berentsen, Ph.D., Ohio State, 1976, Professor — regional development and change, landscapes, Europe and U.S.A.
Mark Boyer, Ph.D., Maryland, 1988, Board of Trustees Distinguished Professor — globalization, global-local linkages, environmental policy, climate change, political economy
Amy Burnicki, Ph.D., Michigan, 2008, Assistant Professor-in-Residence in Geography and Department of Civil and Environmental Engineering — GIScience, quantitative methods, land change science, spatial analysis and modeling
Tim Byrne, Ph.D., Univ. of Calif., Santa Cruz, 1981, Professor in Geography, Center for Integrative Geosciences, and Marine Sciences — marine geology and tectonics, convergent margin geology, structural geology
Thomas J. Cooke, Ph.D., Indiana, 1993, Professor — urban, economic, population, quantitative methods
Debanuj DasGupta, Ph.D., Ohio State, 2016, Assistant Professor — race, ethnicities, & place, feminist geography, mobilities & migration, geographies of sexualities, geographies of disabilities
Heidi Dierksen, Ph.D., Univ. of Calif., Santa Barbara, 2000, Professor, Avery Point Campus — Coastal optics and remote sensing to address questions related to biological and physical processes in the ocean
Ken Foote, Ph.D., Chicago, 1982, Professor and Head — GIScience and visualization, interactive and multimedia cartography, landscape history, geography in higher education
Julie Fosdick, Ph.D., Stanford University, 2012, Assistant Professor in Geography and Center for Integrative Geosciences — sedimentary geology, thermochronology, and paleogeography
Debarchana (Debs) Ghosh, Ph.D., Minnesota, 2009, Associate Professor — Health Geography, HIV/AIDS, drug use, GIScience, social network analysis, mixed methods
Dean M. Hanink, Ph.D., Georgia, 1980, Professor — economic, regional development
John-Andrew Jolly-Ballantine, Ph.D., Univ. of Calif., Santa Barbara, 2008, Associate Professor in Residence — geography education, sustainability, geomorphology, remote sensing, hydrology
Weidong Li, Ph.D., China Agricultural University, 1995, Research Scientist — Geospatial statistics and geo-computation, environmental informatics, GIScience, soil and landscape mapping, land use change and remote sensing
Richard Mrozinski, M.A., Connecticut, 1996, Instructor — GIScience
William Ouimet, Ph.D., Massachusetts Institute of Technology, 2007, Associate Professor in Geography and Center for Integrative Geosciences — geomorphology, earth surface processes, human-environment interactions and landscape evolution
Lisa Park Boush, Ph.D., Arizona, 1995, Professor and Director, Center for Integrative Geosciences — climate change, biodiversity and sustainability
Anji Seth, Ph.D., Michigan, 1995, Professor — climate change, society and climate
Scott Stephenson, Ph.D., UCLA, 2014, Assistant Professor — Climate change, climate policy, GIS, political geography, transportation
Clay Tabor, Ph.D., Michigan, 2015, Assistant Professor — paleoclimates, water Isotopes, climate change
Nathaniel S. Trumbull, Ph.D., Washington, 2006, Associate Professor and Director, Maritime Studies — urban management, water resources planning and management, urban and community

development, regional planning, geographic information systems, information technology and education
Daniel Weiner, Ph.D., Clark, 1986, Professor and Vice President for Global Affairs — development geography; political ecology; GIS and society
Chuanrong Zhang, Ph.D., Wisconsin, Milwaukee, 2004, Professor — GIScience, remote sensing, spatial analysis

ASSOCIATED FACULTY:

Norman Garrick, Ph.D. Purdue, 1986, Associate Professor of Civil and Environmental Engineering — sustainable transportation and urban planning
Phoebe Godfrey, Ph.D. SUNY Binghamton, Assistant Professor in Residence of Sociology — social justice and ecological and social sustainability

EMERITUS and RETIRED FACULTY:

Robert G. Cromley, Ph.D., Ohio State, 1978, Professor Emeritus
Peter L. Halvorson, Ph.D., Cincinnati, 1970, Professor Emeritus
Ross MacKinnon, Ph.D., Northwestern, 1968, Professor Emeritus
Jeffrey P. Osleeb, Ph.D., SUNY Buffalo, 1974, Professor Emeritus

DELAWARE

UNIVERSITY OF DELAWARE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1966

GRADUATE PROGRAM FOUNDED: 1971

DEGREES OFFERED: B.A. (Geography, Geography Education, Environmental Studies), B.S. (Meteorology and Climatology, Environmental Science), M.A. and M.S. (Geography), Ph.D. (Climatology, Geography), Graduate Geographic Information Science Certificate

GRANTED 9/1/16-8/31/17: 52 Bachelors, 6 Masters, 2 Ph.D.

STUDENTS IN RESIDENCE: 284 Majors (28 Geography, 142 Environmental Science, 99 Environmental Studies, 15 Meteorology and Climatology), 12 Masters, 16 Ph.D., 10 GIS Certificate

NOT IN RESIDENCE: 3 Ph.D.

CHAIR: Delphis Levia

ASSISTANT TO THE CHAIR: Kaci Middlemas

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Delphis Levia, Chair, Department of Geography, University of Delaware, Newark, DE 19716. Telephone: (302) 831-2294. Fax (302) 831-6654 (Faxes should be directed to Delphis Levia).

E-mail: info@geog.udel.edu.

Internet: <http://www.ceoe.udel.edu/schools-departments/departments-of-geography>.

GRADUATE PROGRAMS AND RESEARCH FACILITIES:

Delaware's graduate programs provide opportunities to interact closely with faculty whose research interests encompass one or more of three broad areas: climatology, ecohydrology, and human-environment interactions.

A recently crafted Ph.D. degree in Climatology, beginning Fall 2014, builds on the longstanding climatology tradition in the department with additional faculty and resources within the College of Earth, Ocean and Environment. The climatology faculty research focus on land/ocean/ice- atmosphere interactions, and climate dynamics and variability. The faculty employ a wide range of models, from cloud scale to climate scale, and use environmental observations including

surface, upper air, and satellite data, along with state-of-the-art methods of analysis and modeling to study our climate system.

The Geography Ph.D. degree serves as the umbrella degree for advanced geographic research in both physical and human geography. The physical geography research includes cryospheric studies (sea ice, glaciers, snowcover) and ecohydrology research (vegetation change, biogeochemical changes in forests, linkages between hydrology and ecosystem processes). A new human geography focused PhD encourages research in human-environmental relations, political ecology and in fieldwork at home and abroad. Interdisciplinary work is encouraged from across the university and in collaborations with local, national, and international partners. The department is flexible, focusing on individual interests and encouraging multidisciplinary work.

Delaware's masters programs in Geography provide individualized coursework and professional training, with an emphasis on developing research and analytic abilities, as well as professional communication skills. A thesis is required of all masters students.

Graduate GIS Certificate program is designed to provide the theoretical underpinnings of GIS to make informed use of geographic technologies and to gain the technical skills needed to construct and solve problems in the physical and social realms. The program requires one core graduate GIS course followed by 9 additional graduate GIS credit hours.

Topical Emphases:

Climatology emphasizes the study of interactions between the earth and atmosphere and their role in environmental problems. Faculty research interests fall within all the traditional subareas of climatology, including climate dynamics, hydroclimatology, physical climatology, microclimatology, paleoclimatology, and synoptic weather-analysis climatology. Human impacts on energy and moisture exchanges, and climatic influences on socioeconomic activities are of increasing importance and allow many opportunities for interdisciplinary and cross-disciplinary research.

Ecohydrology encompasses research where primary processes in the soil, vegetative layer, or other aspects of the near-surface landscape. Such interests include the effects of forest cover on hydrological and biogeochemical flows and the linkages between hydrology and ecosystem processes.

Cryosphere studies feature heavily in both climate and land-surface research, including snowcover and snowfall studies, glacier dynamics and variations, and sea-ice dynamics and development of sea-ice datasets.

Human geography faculty are examining the adaptations to a changing world focusing on topics of environment and society, sustainability and justice, and urbanization and development. Current research project include the study of Guatemalan immigration to Delaware and its impact on migrant and host communities, political ecology of health with an interest in the historical relationships between health and urbanization in the North American context, geographic and policy dimensions of development in western China (especially as they are related to water resources and climate change), and food and agricultural systems in Mexico (focus on how local actors interact with transnational development organizations to shape landuse policies and agricultural practices).

Field research and measurement provide a major tool of research in this department. The Delaware Environmental Observing System (DEOS) established and maintains over 50 automated weather stations in Delaware and nearby, providing real-time weather information for regional environmental research as well as for a wide variety of outside users. Geographic studies are conducted as multiple scales from local to the global scale.

Research methods encompass analysis and synthesis of existing data, including data from observational networks, remote sensing sources, the census, modeling output, and other archival sources. Geographic Information Science (GIS) is used as an analysis and presentation tool in most of our research areas, and nearly all of our graduate students opt for significant training in GIS. GIS skills are complemented by training in remote-sensing, image analysis, statistical methods, and database programming. Although all masters and doctoral theses require topical research areas, emphasis on the research methods is commonly allowed at the masters level. The Graduate GIS Certificate Program prepares students to utilize GIS in their program area of study by developing the student's theoretical underpinnings of GIS and to develop their technical skills.

The University and Department cover student and faculty computing and computer network needs. All graduate student offices include department-provided workstations. The University provides licensed software sufficient for a wide variety of uses, including GIS, image processing, and statistical analysis software. The Geography Department operates the University's GIS classroom as a state-of-the-art teaching facility. Departmentally owned workstations and data servers handle most of our data-intensive applications. A computer programmer/analyst assist with use of these resources. The Department's computing resources are supplemented by high-end Unix servers and computer clusters at the University level and by supercomputer resources available through SURAGRID, supporting some of our larger data analysis projects and our atmospheric modeling.

The Department maintains a strong interest in geographic education, and graduate students can participate in outreach activities at local, regional, and national levels. The Delaware Geographic Alliance is headquartered in the Department and employs a full-time coordinator. Its mission is to enhance education at the K-12 level throughout the state of Delaware, primarily through providing existing teachers with resources and education.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

The University operates on the semester system. Admission requirements are an undergraduate GPA of 3.0 (4-point scale) and combined verbal and quantitative minimum GRE scores of 300 for the masters and Ph.D. programs. Applicants scoring lower on these criteria may be considered if they demonstrate superior aptitude in other respects. Admission is competitive and is based on the number of well-qualified applicants and the availability of faculty and financial resources. The graduate program will consider applicants without previous background in geography, although remedial work may be required as a condition of acceptance. Admission requirements for the Ph.D. program also include a thesis-based masters degree in geography or a discipline closely related to the proposed area of study, and demonstrated methodological training. Financial support is available through fellowships, research assistantships, and teaching assistantships. Financial support for entering graduate students is awarded on a competitive basis.

FACULTY:

Saleem H. Ali, Ph.D., MIT, 2000, Blue & Gold Distinguished Professor of Energy & Environment — environmental conflict resolution, resource geography, military geography

Cristina Archer, Ph.D., Stanford University, 2004, Associate Professor — renewable energy, wind power, meteorology, climate change, air quality, numerical modeling of atmospheric processes.

Tracy L. DeLiberty, Ph.D., University of Oklahoma, 1994, Associate Professor — climatology, sea ice, GIS, remote sensing

Jing Gao, Ph.D., University of Wisconsin-Madison, 2013, Assistant Professor — geospatial data science, machine learning, uncertainty analysis and modeling, social dimensions of global environmental change, urban land cover and land use change, spatial population studies

Cathleen A. Geiger, Ph.D., Dartmouth College, 1996, Research Associate Professor — climatology, mechanics, kinematics, and dynamics of sea ice, cryosphere, polar regions

Brian Hanson, Ph.D., University of Minnesota, 1985, Professor — climate dynamics, glaciology, numerical modeling

Paul Jackson, Ph.D., University of Toronto, 2011, Assistant Professor — urban geography and political ecology of health

Daniel J. Leathers, Ph.D., Pennsylvania State University, 1988, Professor and Delaware State Climatologist — snowfall and snow cover studies, cryosphere, atmospheric dynamics, hydroclimatology, microclimate

David R. Legates, Ph.D., University of Delaware, 1988, Professor and Coordinator of the Delaware Geographic Alliance — hydroclimatology, precipitation, snowfall measurement, global climate change, remote sensing of precipitation, computational methods

Delphis F. Levia, Ph.D., Clark University, 2000, Professor and Chair — biometeorology, ecohydrology, biogeochemistry, field methods and instrumentation, environmental management

Pinki Mondal, Ph.D., University of Florida, 2011, Assistant Professor — remote sensing and GIS, land use land cover change, human-environment interactions, agricultural systems, climate impacts

Lindsay Naylor, Ph.D., University of Oregon, 2014, Assistant Professor — political geography, food and agricultural systems, critical development studies, critical geopolitics, Latin America

Sara Rauscher, Ph.D., University of Wisconsin-Madison, 2004, Assistant Professor — regional climate modeling dynamics, climate change and variability

April Veness, Ph.D., University of Minnesota, 1984, Associate Professor — urban/social geography, minority problems and places, geographic thought

Dana Veron, Ph.D., Scripps Institution of Oceanography, University of California-San Diego, 2000, Associate Professor and Director of the Environmental Science and Studies Program — regional modeling in Arctic/Antarctic, Arctic energy budget, cloud forcing and feedback, sea breeze, wind resource assessment, air-sea interactions

EMERITUS:

Edmunds V. Bunkš
Frederick Nelson
Thomas Meierding
Peter Rees
Yda Schreuder
Cort Willmott

PROFESSIONAL ACADEMIC STAFF:

Anne Dienert, M.Ed., Delaware, 1990, Delaware Geographic Alliance, Office Manager & Elementary School Manager — geographic education

Mary Schorse, Ph.D., Delaware, 2015, Delaware Geographic Alliance, Secondary & High School Manager — geographic education

Kenji Matsuura, Ph.D., Delaware, 1992, Geographic Programmer/Analyst — climatology, database management, computer applications

JOINT FACULTY:

John M. Byrne, Ph.D., University of Delaware, 1980, Professor (joint appointment with the Center for Energy and Environmental Policy) and Director of the Center for Energy and Environmental Policy (CEEP) — Political economy; sustainable development; environmental justice; technology, environment and society

Gerald J. Kauffman, Ph.D., University of Delaware, 2014, Assistant Professor — water science and policy, hydrology, watershed planning, ecological economics

Holly Michael, Ph.D., MIT, 2005, Associate Professor (joint appointment with Geological Sciences) — coastal groundwater dynamics, groundwater-surface water interaction, groundwater flow and solute transport modeling, water supply sustainability, geostatistical modeling of subsurface heterogeneity

Matthew J. Oliver, Ph.D., Rutgers University, 2006, Associate Professor — biological oceanography, remote sensing, robotics, dynamic spatial planning, instrumentation, animal tagging, big data

Michael A. O'Neal, Ph.D., Washington, 2005, Associate Professor (joint appointment with Geological Sciences) — glacial and fluvial geomorphology, quaternary, geology and geochronology, GIS

James Pizzuto, Ph.D., Minnesota 1982, Professor (joint appointment with Department of Geological Sciences) — fluvial geomorphology

Andrea Sarzynski, Ph.D., George Washington University, 2006, Assistant Professor (joint appointment with School of Public Policy and Administration) — urbanization and environmental change, environmental policy and politics, urban and regional planning

Anthony Seraphin, Ph.D., Delaware, 2004, Associate Professor (joint appointment with Department of Mathematical Sciences) — climate datasets, pollution transport

Rodrigo Vargas, Ph.D., 2007, University of California- Riverside, Assistant Professor (joint appointment with Plant & Soil Sciences) — ecosystem ecology, bioclimatology, soil-plant-atmosphere interactions, carbon cycling

DISTRICT OF COLUMBIA

AMERICAN ASSOCIATION OF GEOGRAPHERS

DATE FOUNDED: 1904

EXECUTIVE DIRECTOR: Douglas Richardson

FOR MORE INFORMATION WRITE TO: American Association of Geographers, 1710 Sixteenth Street NW, Washington, DC 20009-3198. Voice 202-234-1450. Fax 202-234-2744. Email: gaia@aag.org. Internet: <http://www.aag.org>.

PROGRAMS: The American Association of Geographers (AAG) was founded to promote and encourage geographic research and education and to disseminate research findings. The AAG currently counts over 12,000 members in the United States, Canada, and other countries throughout the world. AAG members work, teach, and conduct research at colleges, universities, and in business and government. Many others are independent scholars or students.

The Association accomplishes its goals by publishing its three quarterly journals, the *Annals of the American Association of Geographers*, the *AAG Review of Books* and *The Professional Geographer*, and the monthly *AAG Newsletter*; through outreach and educational programs; through research grants and contracts with government agencies; through the programs of its nine regional divisions, sixty-four specialty groups, and six affinity groups; and through multiple conferences and its annual meetings. At its most recent Annual Meeting in New Orleans, Louisiana in April, 2018,

over 6,000 research papers, interactive short papers, and illustrated papers were presented on numerous topics by more than 8,000 geographers who attended. The AAG's 2019 Annual Meeting will be held from April 3-7, 2019 in Washington, DC. Professor Derek Alderman of University of Tennessee, Knoxville currently serves as president of the AAG. Professor Sheryl Luzzadder-Beach of University of Texas at Austin is vice president. Professor Glen MacDonald of University of California Los Angeles is immediate past president. Additional details regarding AAG history and operations are contained in the Handbook of the AAG, available at <http://aag.org/guide>.

STAFF:

Jennifer Cassidento, Publications Director
David Coronado, Communications Director/Special Projects Implementation
Coline Dony, Senior Geography Researcher
Colleen Dougherty, IT Director
Emily Fekete, Social Media and Engagement Coordinator
Liza Giebel, IT Support Specialist
Niem Huynh, AAG Research Fellow
Jolene Keen, Research Associate
Oscar Larson, Deputy Director for AAG Meetings
Michelle Ledoux, Membership Director
Candice Luebbering, Senior Research Geographer and Director of Outreach and Engagement
Robin Maier, Journals Production Editor (The Professional Geographer)
Candida Mannozi, Deputy Director of Operations
Teri Martin, Deputy Director of Finance
Reacha O'Neal, Administrative Assistant
Becky Pendergast, Director of Design and Digital Products/Program Coordinator
Mark Revell, Workforce Development Specialist and Editor, AAG Guide
Douglas Richardson, Executive Director
Michael Solem, Senior Advisor for Geography Education
Meredith Stone, Annual Meeting and Outreach Associate
Yonette Thomas, Senior Advisor
Elin Thorlund, Membership Specialist and Research Associate
John Wertman, Senior Program Manager for Government Relations

GEORGE WASHINGTON UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1945

DEGREES OFFERED: B.A., M.S.

GRANTED 9/1/16-8/31/17: 60 Bachelors, 11 Masters

STUDENTS IN RESIDENCE: 120 Majors, 27 Masters

CHAIR: Lisa Benton-Short

DEPARTMENT ADMINISTRATIVE ASST: Andrii Berdnyk

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chairman, Department of Geography, 2036 H St NW, 217 Samson Hall, George Washington University, Washington, DC 20052. Telephone (202) 994-6185. Fax (202) 994-2484. E-mail: geog@gwu.edu Internet: geography.columbian.gwu.edu

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography is located in the heart of Washington, DC, within walking distance of the Departments of State, the World Bank, the Organization of American States, the White House, and short subway rides to the Library of Congress, the National Institutes of Health, and

many other research facilities. The department has a large spatial analysis lab and a physical geography lab. In addition, faculty in the department work closely with the Elliott School of International Affairs, the Latin America and Hemispheric Studies Program, Sigur Center for Asian Studies, the Institute for Middle East Studies, and Environmental Studies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

The Department offers a Bachelor of Arts in Geography which is made up of 36 credit hours in the major. Beyond the introductory sequence, there is a core curriculum of two courses in each of the following groups: 1) physical, 2) human, 3) techniques and one course in 4) regional. An additional requirement is a senior proseminar in geography. The Department also offers a Bachelor of Arts in Environmental Studies, which is an interdisciplinary degree. Minors in Geography and Geographic Information Systems (GIS) are also offered.

The Master of Science degree program requires a B.A. or B.S. degree in geography or a related field in the social or natural sciences. Thesis and non-thesis options are available. The thesis option requires a minimum of 30 semester hours, including Thesis Research credit. The non-thesis option requires 36 hours of graduate work. The program of study has a three-course core, after which the student selects courses in conjunction with an advisor and the student's graduate committee. Collaborative research between faculty and graduate students is a hallmark of the M.S. program, which emphasizes strong quantitative and research skills in geographical analysis. Students often co-author conference presentations and research publications. The M.S. program focuses on three areas of departmental expertise: the urban environment and sustainability; urbanization, migration and development; and applied geospatial techniques. A limited number of fellowships and teaching assistantships are available, as are internship possibilities with various agencies. The Department also offers a graduate GIS Certificate Program, a 12-credit program with rolling admission open to students who already have a B.A. or B.S. degree. Masters students may earn both the M.S. and the GIS Certificate simultaneously.

FACULTY:

Mona Atia, Ph. D., University of Washington, 2008, Associate Professor of Geography and International Affairs — Economic Development, Cultural, and the Middle East
Ginger R.H. Allington, Ph.D., Saint Louis University, 2012, Assistant Professor — Arid rangelands, social-ecological systems modeling, land cover/land use change
Lisa M. Benton-Short, Ph.D., Syracuse University, 1997, Associate Professor and Chair of Geography — Urban Geography, Urban Sustainability Environmental Issues
Nuala Cowan, D.Sc., The George Washington University, 2013, Professional Lecturer in Geography — GIS for Emergency Management, Open Geospatial Data for Disaster Preparedness
Elizabeth Chacko, Ph.D., UCLA, 1997, Associate Professor of Geography — Population, Cultural and Urban Geography, South Asia
Joseph P. Dymond, M.S., Louisiana State University, 1999, M.S., Pennsylvania State University, 1994, Professorial Lecturer of Geography — Human, Political, and Latin American Geography
Ryan Engstrom, Ph.D., San Diego State University, 2005, Associate Professor of Geography — Physical Geography, Remote Sensing
Melissa Keeley, Ph. D., Technical University of Berlin, 2007, Assistant Professor of Geography — Urban Sustainability, Green Infrastructure, Environmental Policy
Michael Mann, Ph.D., Boston University, 2011, Assistant Professor of Geography — Spatial Modeling and Prediction, Land Use Change, Wildfire, and Agriculture
Marie D. Price, Ph.D., Syracuse University, 1991, Professor — Political, Cultural, Population, Latin America

David R. Rain, Ph.D., Pennsylvania State University, 1997, Associate Professor of Geography — Urban, Development, Sub-Saharan Africa, Geographic Information Systems
 Wesley Reisser, Ph.D., UCLA, 2009, Professorial Lecturer in Geography — Political Geography, Energy
 Nikolay Shiklomanov, Ph.D., University of Delaware, 2001, Associate Professor of Geography — Arctic Environments and Permafrost, Spatial Analysis, Geomorphology, Climate Change
 Dmitry Streletskiy, Ph.D., University of Delaware, 2010, Assistant Professor of Geography — Climate Change, Arctic Environments, Geography of Russia, Periglacial Geomorphology, and GIS

TECHNICAL STAFF:

Richard Hinton, MGIS, Pennsylvania State University, 2014, Lecturer of Geography — Cartography, Geographic Information Systems, and Geospatial Analysis

EMERITI:

John C. Lowe, Ph.D., Clark University, 1969 — Urban and Transportation Geography
 Dorn C. McGrath, Jr., MCP, Harvard University, 1959, Professor — Urban and Regional Planning, Latin America, Transportation

U.S. DEPARTMENT OF STATE

OFFICE OF THE GEOGRAPHER AND GLOBAL ISSUES

DATE FOUNDED: 1929

DIRECTOR: Lee R. Schwartz, The Geographer, U.S. Department of State

FOR FURTHER INFORMATION ABOUT CAREER OPPORTUNITIES AND APPLICATIONS PROCEDURES CONTACT: Personnel Officer, Bureau of Intelligence and Research, INR/EX/HR, Room 6880, Department of State, Washington, D.C. 20520-6510. Telephone (202) 647-1988. Fax (202) 647-0504.

PROGRAMS AND RESEARCH FACILITIES: The Office of the Geographer and Global Issues carries out current research and analysis of international geographic issues of interest to senior U.S. policy makers. Areas of research include international boundaries, territorial and maritime issues; population, migration, and refugee flows; national asylum and immigration policies; transboundary environmental and public health problems; humanitarian relief concerns; war crimes and atrocities prevention; food and water security; climate change; human and wildlife trafficking; and issues involving the United Nations and other international organizations.

BASIC QUALIFICATIONS: Analytical positions for geographers are available infrequently. Specific job requirements will determine qualifications but a graduate degree in Geography, foreign language, and excellent writing skills are recommended.

STAFF:

Lee R. Schwartz, Ph.D. Columbia, 1986, Office Director, Geographer — political and population geography, former Soviet Union/Eastern Europe, complex emergencies, refugees, human rights, crisis mapping, geospatial sciences for sustainable development, applied imagery analysis, and international diplomacy.
 Jo-Ellen Adkins, J.D., International law, University of Detroit Mercy School of Law Graduate of the London Law Program, specializing in international law B.A. Journalism, Mass Communication, Political Science, University of Iowa, Director, National Geospatial-Intelligence Agency Support Team

Laura Cline, M.A. Geography, 2004, B.A. International Affairs, 2002, George Washington University; Humanitarian Information Unit, National Geospatial-Intelligence Agency Support Team
 Sydney A. Cross, M.A. Political Science, Howard University, 2012; B.A. International Affairs, Trinity Washington University, 2010. Foreign Affairs Analyst, Humanitarian Information Unit
 Kristen Dennison M.A. Political Science, Pennsylvania State University 2011; B.A. International Politics, International Studies, Pennsylvania State University 2011; Analyst – Human rights and democratization
 Leo Dillon, M.S. Geography, University of South Carolina, 1984; Cartographer and Chief of the Geographic Information Unit, foreign geographic names
 Eric R.M. Doornbos, M.A. in Security Studies, Georgetown University, 2015; B.A. in History and International Relations, Calvin College, 2013 — International Boundary and Sovereignty issues
 Aaron M. Ferreira, M.A. International Studies, University of Denver, 2011; B.A. International Studies, University of South Carolina, 2006; Analyst - Conflict and Stabilization Operations, Civilian Security
 Christine Fellenz, B.A., University of Wisconsin-Parkside, 1996; Cartographer, Humanitarian Information Unit
 Timothy Fitzgibbons, MSc. Development Studies, London School of Economics, 2005, A.B. Government and Asian Studies, 1997, Dartmouth College; Chief, Multilateral and Transnational Issues and Human Rights Division
 Debbie Fugate, PhD Geography, San Diego State University and the University of California, Santa Barbara, 2008; MA Geography, San Diego State University, 2003; BA Geography, San Diego State University, 2001. Deputy Office Director
 Kimberly Garner, B.A. in Russian, University of Tennessee, 1991, Executive Officer, National Geospatial-Intelligence Agency Support Team
 Tom J. Gertin, M.S. Geoinformatics and Geospatial Intelligence, George Mason University, 2012; B.A. Public and Urban Affairs, Virginia Polytechnic Institute and State University, 2007. Geospatial Analyst, Humanitarian Information Unit
 Nathan J. Heard, D.Sc., 2009 and MSc, 2003 – Harvard School of Public Health; B.A. Connecticut College, 1995. Humanitarian Information Unit, Public Health Analyst – medical geography and HIV/AIDS
 Michelle A. Herber, BS Imaging Science, Rochester Institute of Technology, 2009; Geospatial Analyst, National Geospatial-Intelligence Agency Support Team
 Sukhraj Kaur, M.A. Political Science, George Mason University, 2015; B.A. Government and International Politics, George Mason University, 2013. Humanitarian Analyst, Humanitarian Information Unit
 Adrienne Keen, Ph.D. Infectious Disease Modeling and Epidemiology, University of London, 2013; M.S. Ecology, Evolution, and Behavior, University of Minnesota, 2007; B.S. Biological Sciences and B.A. Physiology, University of Minnesota, 2004 - Global Health, Environment, and S&T Analyst
 Dennis J. King, Post-Graduate Certificate in Knowledge Management, George Washington University, 2007, M.S. Columbia University, 1983, B. A. University of Florida, 1980, Humanitarian Information Unit – Humanitarian Analyst
 Melinda J. Laituri, Ph.D., University of Arizona, 1993; M.S. California State University, Chico, 1985; B.A. University of California, Berkeley, 1979, Science Advisor, Humanitarian Information Unit; Professor, Colorado State University — geographic information systems, water resource management, watershed science, disaster management, indigenous peoples, local knowledge systems
 Ryan Latgis, B.S. Geographical Sciences: GIS/Computer Cartography, University of Maryland, 2016; Humanitarian Researcher, Humanitarian Information Unit
 James Liddle, BA Mathematics and History, Bucknell University, 1996; Humanitarian Information Unit Chief

David H. Linthicum, M.A. University of Kansas, 1984; B.S. University of MD — international boundary delineation

Paulette Lloyd, Ph.D., University of California, Los Angeles, 2005, Foreign Affairs Research Analyst — trafficking in persons, global women's issues, international justice and accountability

Brooke E. Marston, M.S. Geography and graduate certificate in Geographic Information Science, Oregon State University, 2014; B.A. Geography and B.M. Woodwind Performance, University of Colorado Boulder, 2012; Cartographer, Geographic Information Unit

Andrew McKenna, B.A. Geography and International Affairs, University of North Carolina at Chapel Hill, 2011, Geographer & Humanitarian Affairs Analyst

Michael D. Morin, M.A. George Washington University, 1987; B.A. University of Maine-Orono, 1984, Foreign Affairs Analyst — international justice and accountability, war crimes, atrocity prevention

Kathleena M. Mumford, B.A. Geography, George Washington University, 2012; Analyst, Humanitarian Information Unit

Erika K. Nunez, B.A. Global Studies and Peace, War, and Defense, University of North Carolina at Chapel Hill, 2013, Humanitarian Researcher, Humanitarian Information Unit

Rachel L. Sauer, J.D. and graduate certificate in Human Rights University of Connecticut School of Law, 2010; B.A. Political Science and International Studies University of Illinois, 2007. Analyst - International Organizations; Atrocities Prevention Board

Rod Schoonover, PhD Chemical Physics, University of Michigan, 1993; B.S. Chemistry, B.S. Physics, University of Kansas, 1987, Science and Technology Analyst

Jonathan K. Simmons, Lieutenant Colonel, US Army; M.A. International Relations, Rice University, 2015; M.A. National Security and Strategic Studies, US Naval War College, 2010; M.S. Geology and Geophysics, Missouri University of Science and Technology 2001; B.S. Geophysics, Virginia Polytechnic Institute and State University 1995; Department of Defense Liaison/Analyst, Humanitarian Information Unit

Christine Lamers Somer, BA Cultural Geography, Illinois State University, Deputy Director, National Geospatial-Intelligence Agency Support Team

Gene Thorp, B.A. Geography and B.A. History, University of Maryland Baltimore County, 1992; Cartographer, Geographic Information Unit

Karen A. Tokarsky, M.A. Clinical Psychology, Marshall University, 1985; B.S. Psychology, Indiana University of Pennsylvania, 1983, Administrative Officer

Gary W. Tripmacher, M.A. in International Affairs, George Washington University 2009; B.A. in History, Boston College 2002, Analyst - UN, International Organizations

Nathaniel Wolpert, B.S. Geography, 1999, Salisbury University, specializing in Geographic Information Systems (GIS); National Geospatial-Intelligence Agency Support Team

FLORIDA

FLORIDA ATLANTIC UNIVERSITY

DEPARTMENT OF GEOSCIENCES

DATE FOUNDED: Geography 1964; Geology 1973; Combined 1996

GRADUATE PROGRAM FOUNDED: Geography 1972; Geology 1991; Geosciences 2009

DEGREES OFFERED: Geosciences – B.A. (Geography or Geology focus), B.S. (Geography or Geology focus); M.S.; Ph.D.

GRANTED 6/1/16-5/31/17: Geography 12 Bachelors, 6 Masters; Geology 19 Bachelors, 4 Masters; Geosciences 5 Masters, 3 Doctoral

STUDENTS IN RESIDENCE: Geography 52 Majors; Geology 56 Majors; Geosciences 27 Masters; 31 Doctoral

CHAIR: Zhixiao Xie

DEPARTMENT ADMINISTRATIVE ASST: Susan L. Prince

FOR GRADUATE CATALOG AND FURTHER INFORMATION WRITE TO: Tobin Hindle, Graduate Program Director, Department of Geosciences, Florida Atlantic University, 777 Glades Road, Boca Raton, FL 33431. Telephone 561-297-2846. E-mail: thindle@fau.edu. Internet: www.geosciences.fau.edu.

PROGRAMS AND RESEARCH FACILITIES: The department offers bachelors, masters and doctoral degrees in geosciences and participates in a cross-disciplinary undergraduate environmental studies certificate program and masters degree in environmental science.

Undergraduate: The undergraduate program focuses on human-environmental interactions, earth systems science and GIScience. Fieldwork and other applied techniques are emphasized in all tracts.

Graduate: The masters program in Geosciences allows specializations in human-environmental interactions, earth systems science and GIScience. The Ph.D. degree in Geosciences allows specializations in Hydrology and Water Resources, Urban Land Use in Sustainability, and Cultural and Spatial Ecology. See Faculty specializations below for more information. The department has several well-equipped computer labs for GIS, UAS, digital image analysis, geophysics, biogeography, coastal geomorphology, hydrogeological modeling, and paleoclimatology. ARCGIS, IMAGINE, eCognition, ENVI, SPSS, SAS, VISUAL MODFLOW, AQUIFERTEST, SURFER, HEC, and other standard analysis and display packages are among the programs available in the department.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Admission to the lower division (freshman/sophomore standing) is competitive. Admission to the upper division (junior/senior standing) for transfer students requires an Associate of Arts degree or equivalent coursework and a minimum cumulative GPA of 2.0 on a four point system.

GRADUATE: A GRE score of 146 verbal and 144 quantitative and an upper division GPA of 3.0 are recommended for admission into masters programs. For the doctoral program, a GRE score of 150 verbal and 150 quantitative portion, and a cumulative GPA of 3.0 in the applicant's last degree program are required. A limited number of

competitive graduate assistantships are available, with a stipend plus a waiver of 100% of tuition, excluding matriculation fees. The master's programs require the completion of a minimum of 31 semester credit hours in the thesis track or 34 in the non-thesis track of department and cognate approved coursework. The Ph.D. degree requires 90 credits past the bachelors degree or 60 credits beyond the M.A./M.S. degree.

FACULTY:

Xavier Comas, Ph.D., Rutgers, 2005, Associate Professor — geophysics
Maria Fadiman, Ph.D., Texas-Austin, 2003, Associate Professor — ethnobotany, Latin America
James Gammack-Clark, M.A., Florida Atlantic, 2001, Instructor — GIS, drone, mobile GIS
Tobin K. Hindle, Ph.D., Florida Atlantic, 2006, Associate Scientist — environmental studies, GIS, restoration ecology
Russell L. Ivy, Ph.D., Florida, 1992, Professor and Senior Associate Provost for Academic Affairs — urban, tourism, transportation
Erik Johanson, Ph.D., Tennessee, 2016 Assistant Professor — Human-environment interaction, Paleoclimatology
Weibo Liu, Ph.D., Kansas, 2016, Assistant Professor — GIS, Spatiotemporal Data Modelling, Geocomputation and WebGIS
Scott H. Markwith, Ph.D., Georgia, 2007, Associate Professor — biogeography
Anton Oleinik, Ph.D., Purdue, 1998, Associate Professor — stratigraphy, sedimentology, paleoclimatology
Colin Polsky, Ph.D., Pennsylvania State, 2002, Professor and Director of the Florida Center for Environmental Studies — Human Dimensions of Global Environmental Change
Tiffany Roberts, Ph.D. South Florida, 2012, Assistant Professor — coastal morphodynamics
Tara Root, Ph.D., Wisconsin-Madison, 2005, Associate Professor — hydrology, engineering geology
David Warburton, Ph.D., Chicago, 1978, Associate Professor — environmental geochemistry
Caiyun Zhang, Ph.D., Texas-Dallas, 2010, Associate Professor — Hyperspectral Remote Sensing
Zhixiao Xie, Ph.D., SUNY Buffalo, 2002, Professor — GIS, remote sensing, spatial data analysis and modeling

FLORIDA INTERNATIONAL UNIVERSITY

DEPARTMENT OF GLOBAL AND SOCIOCULTURAL STUDIES

DATE FOUNDED: 2008

DEGREES OFFERED: B.A. Geography; B.A. Sociology/Anthropology; M.A. and Ph.D. Global and Sociocultural Studies (GSS)

GRANTED 2016-2017: 9 Geography B.A.; 61 Sociology/Anthropology B.A.; 8 GSS M.A.; 7 GSS Ph.D.

MAJORS: 25 Geography B.A.; 347 Sociology/Anthropology B.A.; 6 GSS M.A.; 59 GSS Ph.D.

HEAD: Guillermo Grenier

DEPARTMENT INTERIM OFFICE MANAGER: Jody Grove

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Florida International University's Department of Global & Sociocultural Studies, 11200 S.W. 8 Street, SIPA 340, Miami, FL 33199 – Telephone: (305)-348-2247 – Fax: (305)-348-3605 – Email: gss@fiu.edu – Website: <http://gss.fiu.edu/>

PROGRAMS AND RESEARCH FACILITIES:

Undergraduate: The geography Bachelor of Arts degree program at FIU offers students the opportunity to develop knowledge and skills in economic and cultural geography, development, gender and international studies, GIS, and political ecology. The Department has strong regional expertise in Latin America, the Caribbean, Africa, the Middle East, and North America.

Graduate: The graduate program in Global and Sociocultural Studies is a core department in the Steven J. Green School of International and Public Affairs. The Department integrates the disciplinary approaches of geography, anthropology, and sociology with cross-disciplinary theorizing and research. The M.A. and Ph.D. curricula are organized by three intersecting themes: Identities & Inequalities; Migrations & Diasporas; and Nature-Society. Disciplinary concentration in Geography is an option for the Ph.D. as is a graduate certificate in Geographical Information Systems (GIS). Facilities: The Department is located in the Green School of International and Public Affairs Building situated in the center of the campus. The building features state-of-the-art classrooms, faculty offices, a graduate student office suite, a 500-seat auditorium with simultaneous translation booths, two language labs, and a GIS and data processing lab. In addition, students have access to the university's state-of-the-art GIS facility.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate admissions requirements are the same as those for admission to the Steven J. Green School of International and Public Affairs. Geography majors are required to complete two lower division geography courses as program prerequisites. The degree requires 30 credits for completion. Students are encouraged to pursue double majors, minors, and certification in related fields of study. Graduate admissions are submitted on-line through FIU's University Graduate School, <http://gradschool.fiu.edu/>. In addition, a separate statement of purpose and three letters of recommendation should be sent directly to the Department. Please see the Department's web pages for further information. Graduate students may apply for teaching assistantships (stipend plus tuition waiver) and several on-campus fellowships.

FACULTY:

Aslihan Akkaya, Ph.D., Southern Illinois University-Carbondale, 2012, Lecturer [SOC] — Social Media, Language and Identity, Ethics, Piety, Gender and Sexuality, Islam
Young Rae Choi, Ph.D., Ohio State University, 2015, Assistant Professor [GEO] — Marine and coastal governance, political ecology, East Asia
Peter Craumer, Ph.D., Columbia University, 1988, Associate Professor [GEO] — Russia and former Soviet Union, rural geography, agriculture, and population change
Jorge Duany, Ph.D., University of California, 1985, Professor [ANT] — Migration, Ethnicity, Race, Nationalism, and Transnationalism
Juliet Erazo, Ph.D., University of Michigan, 2003, Associate Professor [ANT] — Indigenous social movements, globalization, environmental anthropology, political ecology; Amazonia, the Andes, Ecuador
Christopher Girard, Ph.D., University of Wisconsin-Madison, 1988, Associate Professor [SOC] — Research Methods, deviance, medical sociology, social problem, stratification
Hugh Gladwin, Ph.D., Stanford University, 1970, Associate Professor [ANT] — Economic and cognitive anthropology, public opinion research, research methods; West Africa, Mesoamerica
Ricardo Gonzalez, Ph.D., University of Hawaii, 2008, Instructor [GEO] — Coastal/Marine Geography, Political Ecology, Cultural Geography, Latin America, Caribbean, Europe
Guillermo Grenier, Ph.D., University of New Mexico, 1986, Professor [SOC] — Labor relations, sociology of work, ethnicity, immigration; United States, Cuba/Latin America

Kevin Grove, Ph.D., *Ohio State University*, 2011, Assistant Professor [GEO] — Environmental security, development, geopolitics, Caribbean political economy, vulnerability, adaptation and resilience, urban political ecology

Percy Hintzen, Ph.D., *Yale University*, 1981, Professor [SOC] — Comparative political sociology, postcolonial studies, political & economic development, Caribbean political-economy, diaspora studies, African studies, critical methodology

Gail Hollander, Ph.D., *University of Iowa*, 1999, Associate Professor [GEO] — Economic geography, agro-environmental conflict, food system theory, feminist geography; North America and the Caribbean

A. Douglas Kincaid, Ph.D., *Johns Hopkins University*, 1987, Associate Professor [SOC] — Political sociology, urban/rural sociology, sociology of development; Central America, Latin America

Qing Lai, Ph.D., *University of Michigan*, 2014, Assistant Professor [SOC] — Quantitative methods, demography, life course, social stratification and inequalities, globalization, development, China, social psychology

Abraham Lavender, Ph.D., *University of Maryland*, 1972, Professor [SOC] — Ethnicity and minority groups, Sephardic studies, Crypto-Jewish studies, social deviance, human sexuality, urban sociology; South Florida

Katherine Lineberger, Ph.D., *University of Colorado at Boulder*, 2009, Instructor [SOC]

Shearon Lowery, Ph.D., *Washington State University*, 1979, Associate Professor [SOC] — Social deviance, mass communications, juvenile delinquency, criminology

Sarah Mahler, Ph.D., *Columbia University*, 1992, Associate Professor [ANT] — Urban anthropology, cultural anthropology, physical anthropology; Latin America, Caribbean, North America

Matthew Marr, Ph.D., *University of California-Los Angeles*, 2007, Associate Professor [SOC] — Urban sociology, Japanese society, qualitative research methods, globalization, poverty, public sociology; Japan, United States

Roderick Neumann, Ph.D., *University of California-Berkeley*, 1992, Professor [GEO] — Political ecology, landscape and identity, nature-society, social theory, Africa; Europe

Ulrich Oslender, Ph.D., *University of Glasgow*, 2001, Associate Professor [GEO] — Political geography, cultural geography, political ecology, social movements, Latin America, Colombia, cultural politics of blackness, forced displacement, geopolitical discourses on terror

Mark Padilla, Ph.D., *Emory University*, 2003, Associate Professor [ANT] — Critical medical anthropology, global health, Latin America, Caribbean, Dominican Republic, tourism studies, gender/sexuality studies, HIV/AIDS research and prevention, mixed methods research on health inequities

Vrushali Patil, Ph.D., *University of Maryland*, 2006, Associate Professor [SOC] — Gender, sexuality, culture, transnationalism, feminist theory

Marifeli Perez-Stable, Ph.D., *State University of New York-Stony Brook*, 1985, Professor [SOC] — Latin America, Cuba and the Caribbean, political sociology, historical sociology, public intellectuals, national reconciliation, human rights

Andrea Queeley, Ph.D., *City University of New York*, 2007, Associate Professor [ANT] — Cultural anthropology, social inequality, black popular culture, anthropological fieldwork, African diaspora studies, the Caribbean

Jean Rahier, Ph.D., *University of Paris*, 1994, Professor [ANT] — Race relations, African studies; Africa, Latin America

Derrick Scott, Ph.D., *University of Maryland*, 2012, Instructor [GEO] — Urban geography, geo-economics/politics, GIS, housing issues, new-urbanism, smart growth areas; West Indies, U.S. Cities, Sub-Saharan Africa

Benjamin Smith, Ph.D., *University of Kentucky*, 2008, Associate Professor [GEO] — Cultural landscapes, economic geographies, urban geographies, contemporary Persian Gulf

Richard Tardanico, Ph.D., *Johns Hopkins University*, 1979, Associate Professor [SOC] — Political economy of development, urban sociology; Latin America

Nelson Varas-Diaz, Ph.D., *University of Puerto Rico*, 2002, Professor [SOC] — Social stigmatization of disease (e.g. HIV/AIDS), marginalized groups (e.g. transgender individuals) and cultural practices (i.e. heavy metal music, religion); Research Methods, Caribbean Region

Dennis Wiedman, Ph.D., *University of Oklahoma*, 1979, Clinical Associate Professor [ANT] — Medical anthropology, organizational culture, environment anthropology, urban anthropology, ethnohistorical research methods, applied anthropology; Native Americans

UNIVERSITY OF SOUTH FLORIDA

SCHOOL OF GEOSCIENCES

DATE FOUNDED: 2013 (1965 for former Department of Geography)

DEGREES OFFERED: B.A., M.A., in Geography; B.S., M.S. in Environmental Science and Policy (ESP); Ph.D. in Geography and Environmental Science & Policy; B.A., B.S., M.S., Ph.D. in Geology

GRANTED 2017/2018: Geography/ESP: 208 Bachelors, 17 Masters, 5 Ph.D.; Geology: 21 Bachelors, 4 Masters, 3 Ph.D.

STUDENTS IN RESIDENCE (All School Programs)

2016/2017: 700 Majors, 45 Masters, 94 Doctoral

CHAIR: Mark Rains, Ph.D.

ASSOCIATE CHAIR: Joni Downs, Ph.D.

DEPARTMENT OFFICE ADMINISTRATOR: Mandy K. Stuck

ADDITIONAL INFORMATION: School of Geosciences, College of Arts and Sciences, University of South Florida, 4202 E. Fowler Ave., NES107, Tampa, Florida 33620. Telephone (813) 974-2236. Fax (813) 974-4808.

Internet: <http://hennarot.forest.usf.edu/main/depts/geosci/>

GEOGRAPHY AND ENVIRONMENTAL SCIENCE & POLICY PROGRAMS AND RESEARCH FACILITIES:

Geography is a diverse and intellectually vibrant program within the School that is committed to excellence in geographic research and scholarship, as well as student success at both the undergraduate and graduate levels. Research opportunities and course offerings emphasize three major themes: 1) human geography, 2) environmental geography, and 3) GIScience and spatial analysis. Faculty and students conduct research on a wide range of issues and problems in local and international contexts, including urban and environmental geographies of Tampa Bay, remote sensing of natural and social environments, health/medical geography, water resources, wildlife ecology, natural hazards, and international development and planning.

The mission of the *Environmental Science and Policy* program is to conduct basic and applied research; provide exceptional, quality education and professional development opportunities at the undergraduate and graduate levels; and serve the region, community, and the university. Teaching and research themes focus on: 1) environmental processes and policy, 2) environment, sustainable communities, and water issues, 3) globalization and international development, and 4) urban and regional development and planning. Programs in this division maintain a strong international focus and undertake research in many settings in North America and throughout the world, particularly Africa, the Middle East, Europe, and Latin

America. These programs also encourage engaged teaching and scholarship within communities and has strong connections with community partners in the Tampa Bay region and many other locations around the world.

The Department offers the B.A. and M.A. in Geography, the B.S. and M.S. in Environmental Science and Policy, and the Ph.D. in Geography and Environmental Science and Policy, in addition to Graduate Certificates in GIS, Urban Studies, and Environmental Management. For information on graduate programs in Geography and in Environmental Science and Policy, please contact Dr. Ruiliang Pu, 813-974-1508, rupu@usf.edu.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University of South Florida operates on a two semester academic year and three overlapping summer sessions.

Undergraduate: Freshmen: 3.0 High School GPA with 19 academic units; 2.5-2.9 with 900 SAT; 2.0-2.5 GPA with 1050 SAT. Juniors/Seniors: AA degree or 60 college credits with 2.0 or better GPA and satisfaction of foreign language requirement.

Graduate: Admission to the Master's and Ph.D. programs requires a GPA of at least 3.0 in the final two years of undergraduate preparation and the submission of GRE scores. Students must also submit a letter outlining their research interests and background.

Financial Aid: A variety of financial aid sources is available for both undergraduate and graduate students based primarily on academic achievement. Graduate assistantships are available for a limited number of students and require approximately 20 hours of work per week for Geography and/or Environmental Science & Policy.

FACULTY:

Geography and Environmental Science & Policy

Fenda Akiwumi, Ph.D., Texas State University, 2006, Associate Professor — resource use and policy, sustainability and environment, water, mining, African development, cultural diversity

Kamal Alsharif, Ph.D., University of Minnesota, 2004, Associate Professor — water resources, environmental policy, non-point source pollution, hydropolitics, Middle East

Martin Bosman, Ph.D., University of Kentucky, 1999, Associate Professor — urban, economic, social theory, globalization

Jennifer Collins, Ph.D., University College London (England), 2002, Associate Professor — meteorology, hazardous weather events, climate change

Thomas Crisman, Ph.D., Indiana University, 1970, Professor — freshwater ecology, tropical ecology

Joni Downs, Ph.D., Florida State University, 2008, Associate Professor — geographic information systems, spatial analysis and modeling, wildlife and forest ecology

Yujie Hu, Asst. Prof. — GIS, Transportation, Public Health, Human-Environment Interactions

Shawn Landry, Ph.D., University of South Florida, 2013, Research Associate Professor — hydrology, GIScience, remote sensing

Connie Mizak, Ph.D., University of South Florida, 2004, Instructor — air pollution, risk assessment, estuarine eutrophication, environmental policy

Ambe J. Njoh, Ph.D., University of London (England), 1990, Professor — research methods/quantitative analysis, transportation policy and planning, political economy of water and sanitation systems, sustainable development theory and practice

Ruiliang Pu, Ph.D., Chinese Academy of Sciences/University of California, Berkeley, 2000, Associate Professor — remote sensing, GIS, ecosystem analysis

Steven Reader, Ph.D., University of Bristol (England), 1989, Associate Professor — GIScience, spatial statistics, spatial epidemiology, health geography

Ran Tao, Ph.D., University of North Carolina at Charlotte, 2017-- Geographic Information Science, spatial interactions, spatial statistics, data mining, geovisualization, GIS in transportation, crime, migration, and civic conflicts

Graham A. Tobin, Ph.D., University of Strathclyde (Scotland), 1978, Professor Emeritus — natural hazards recovery, water resources

Philip Van Beynen, Ph.D., McMaster University (Canada), 1999, Associate Professor — Karst environments pertaining to paleoclimate change, human disturbance, environmental indices and sustainability, sedimentology

Laurie Walker, M.S., University of South Florida, 1998, Director, USF Botanical Gardens — evolutionary and phylogeographic studies of Florida upland plants, Florida ecosystems, urban landscaping and sustainability

Elizabeth Walton, Ph.D., University of North Carolina – Greensboro, 2009, Instructor — GIScience, cartography, ecological modeling

Geology

Dr. H. Leonard Vacher — Geoscience Education / Karst / Hydrogeology / Quantitative Literacy

Dr. Jeffrey G. Ryan — Igneous and Metamorphic Petrology, Geochemistry, Geoscience Education

Dr. Charles Connor — Volcanology, Natural Hazard Assessment, Geophysics

Dr. Ping Wang — Coastal Geology and Sedimentology

Dr. Tim Dixon, Geodesy — Remote Sensing and Natural Hazards

Dr. Steve McNutt — Volcano Seismology

Dr. Sarah Kruse — Near-surface and environmental geophysics

Dr. Mark Rains — Hydrogeology and Ecohydrology

Dr. Greg Herbert — Paleontology and Paleobiology

Dr. Bogdan Onac — Karst mineralogy, climate change, sedimentary geology

Dr. Paul Wetmore — Structural Geology, Tectonics, petrology

Dr. Jonathan Wynn — Paleoclimatology, Paleoanthropology, low-temperature geochemistry

Dr. Rocco Malservisi — Geodesy, geophysics and tectonics

Dr. Matthew Pasek — Aqueous geochemistry and planetary geology

Dr. Jen Bright — Biomechanics, Palaeontology

Dr. Sylvain Charbonnier — Physical Volcanology, geomorphology

Dr. Aurelie Germa — Volcanology, petrology and geochemistry

Dr. Zachary Atlas — Igneous Petrology

Dr. Jochen Braummiller — Seismology

Dr. Glenn Thompson — Seismology

Dr. Tom Juster — Hydrogeology

Dr. Jason Gulley — Hydrogeology

Ms. Judy McIlrath, MS — Geoscience education

Dr. Richard A. Davis (emeritus) — Coastal Geology and Sedimentology

Dr. Mark Stewart (emeritus) — Hydrogeology

GEORGIA

GEORGIA COLLEGE & STATE UNIVERSITY

DEPARTMENT OF HISTORY & GEOGRAPHY

DATE FOUNDED: 2010

DEGREES OFFERED: B. A.

GRANTED 8/22/16-8/22/17: 5 Bachelors

CHAIR: Aran MacKinnon

DEPARTMENT OFFICE COORDINATOR: Amy Mimes

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Amy R. Sumpter, Department of History & Geography,

Georgia College CBX 120, Milledgeville, Georgia, 31061. Telephone (478) 445-2035. Fax (478) 445-5837.
E-mail: amy.sumpter@gcsu.edu.
Internet: <http://www.gcsu.edu/history/geography/>.

PROGRAMS AND RESEARCH FACILITIES: The Bachelor of Arts degree in Geography at Georgia College & State University was created in 2010 to serve as a general geography major in the College of Arts & Sciences at Georgia's Public Liberal Arts University. We have crafted a degree program with a balanced emphasis on Human Geography, Physical/Environmental Geography, Regional Analysis, and Geographic Techniques. Our graduates are well prepared for several careers, from geographic education to geospatial science, military service, or graduate school. As a public liberal arts university, we encourage our majors to coordinate their coursework toward minors or second majors, including history, environmental science, and political science.

Following the completion of a core curriculum requiring two physical geography and two human geography courses, students participate in a sophomore-level research seminar and complete nine courses in five major areas at the upper-level: (1) human geography; (2) physical and environmental geography; (3) regional analysis; (4) geographic techniques; and (5) senior capstone (e.g., thesis, research paper, internship, study abroad, teaching practicum, or applied study). Majors can also participate in an Honors Program and other concentrations/minors within the College. Internships designed for geography majors are available. The department sponsors the Geography Club, and students participate in several other cross-campus and community activities.

The department now offers a GISc Certificate requiring 18-22 hours of upper-level coursework with a capstone experience that includes an internship or applied research project.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, and FINANCIAL AID: Georgia College is on a semester plan. Admission requirements are available from: Office of Admissions, Georgia College CBX 023, Milledgeville, Georgia, 31061 (<http://www.gcsu.edu/admissions/>). Financial Aid information may be obtained from the Office of Financial Aid, Georgia College CBX 030, Milledgeville, Georgia 31061, (<http://www.gcsu.edu/financialaid/>).

FACULTY:

Chuck Fahrer, Ph.D., University of South Carolina, 2001, Professor — political geography, geography of health, geographic education, Europe, Middle East

Doug Oetter, Ph.D., Oregon State University, 2002, Professor — remote sensing, geographic information, physical geography, land cover change, South America.

Amy Sumpter, Ph.D., Louisiana State University, 2008, Associate Professor — race and ethnicity, cultural geography, American South

Mark Rochelo, Ph.D., Florida Atlantic University, 2017, Lecturer — Remote Sensing, Drones, Geographic Information systems, Historical cartography, archeology

GEORGIA INSTITUTE OF TECHNOLOGY

SCHOOL OF CITY AND REGIONAL PLANNING

DATE FOUNDED: 1952

DEGREES OFFERED: Master of City and Regional Planning, M.S in Geographic Information Science and Technology, Ph.D. in City and Regional Planning

DEGREES GRANTED (Or Expected) 9/1/17 – 8/31/18: 46 MCRP, 5 MS-GIST, 4 PhD

MAJORS: 97 MCRP, 6 MS-GIST, 19 PhD, 18 dual degree

CHAIR: Subhrajit Guhathakurta

PROGRAM ADMINISTRATIVE ASSISTANT: Katrina Patton, Academic Advisor

FOR CATALOG AND FURTHER INFORMATION WRITE TO: School of City and Regional Planning, 245 4th Street NW, Atlanta GA 30332-0155. Telephone: (404) 894-2350. Fax: (404) 894-1628. Email: crp@design.gatech.edu Website: <https://planning.gatech.edu>

PROGRAMS AND RESEARCH FACILITIES: Georgia Tech's School of City and Regional Planning is a global leader in the creation of sustainable, resilient and just cities and regions, aiming for the highest levels of international learning and professional engagement. A research-led and highly interdisciplinary community of scholars, the School faculty includes five Fellows of the American Institute of Certified Planners, recent editors of the Journal of the American Planning Association and of the Journal of Planning Education and Research, and former chief operating officers of the Georgia Regional Transportation Authority, and the Atlanta City Planning Department. Graduate students arrive with ambitions to solve the world's most vexing problems resulting from population growth, economic disparities, resource shortages and climate change, and after graduation become leaders in the city planning profession, the development industry, the non-profit sector and academia. Specializations include economic development, environmental and health planning, housing and community development, land use planning, transportation, and urban design.

The School is home to four research centers: the Georgia Center for Quality Growth and Regional Development; the Center for Spatial Planning Analytics and Visualization; the Sino-U.S. Eco-Urban Lab; and the Urban Climate Lab; all of which provide research opportunities and financial support to many of our students. Planning students work with other centers and institutes across the Tech campus, including the Enterprise Innovation Institute, Brook Byers Institute of Sustainable Systems, GTRI Office of Policy Analysis and Research, Georgia Transportation Institute, and Georgia Water Resources Research Institute. Tech's award winning Co-op study program matches planning students with forward-looking and respected city planning firms and agencies in the Atlanta metropolitan area.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

All degree program applicants must complete a Georgia Tech application for graduate admission; provide three letters of recommendation, official transcripts, and GRE scores taken within the last five years; TOEFL scores are required for applicants whose first language is other than English. Dual degree applicants must be admitted to each degree program separately. The deadline to be considered for merit-based departmental aid (such as fellowships and graduate research assistantships) and for the PhD program is January 15. All other applications should be submitted by February 15 (MCRP) or March 15 (MS-GIST).

The MCRP curriculum is a two-year, 55-semester-hour program. This degree requires seven core courses, a specialization, 12 hours of

electives, and a thesis or applied research paper. The MS-GIST is a STEM degree with a three-semester (fall/spring/summer), 34-hour curriculum comprised of core and specialized coursework, as well as electives. The PhD program requires a minimum of two years of residency devoted to coursework, with a minimum of 15 hours of study in a major field, a minimum of 9 hours in a minor field, and a minimum of 16 hours in the program core. Please visit our website for more details: planning.gatech.edu.

Students are eligible to apply for various fellowships, graduate research and teaching assistantships, and our co-op program. GRAs, GTAs, and co-ops come with a tuition waiver and stipend.

FACULTY:

Nisha Botchwey, Associate Professor, PhD, University of Virginia — community development, public health, community engagement, qualitative methods

Jennifer Clark, Adjunct Associate Professor, PhD, Cornell University — economic development and smart cities, regional economic development, urban economics, science, technology, and innovation policy

Michael Dobbins, FAICP, FAIA, M.Arch, Yale University — urban design and architecture, citizen advocacy, planning regulation and administration

William Drummond, Associate Professor, PhD, University of North Carolina at Chapel Hill — geographic information systems, land use policy and planning, planning analytic methods

Ellen Dunham-Jones, Adjunct Professor, M.Arch, Princeton University — new urbanism, suburban redevelopment, dead malls, post-industrial landscapes, autonomous vehicles

Michael Elliott, Associate Professor, PhD, Massachusetts Institute of Technology — negotiation and public policy dispute management, environmental planning and risk management, sustainable communities

Alberto Fuentes, Assistant Professor, PhD, Massachusetts Institute of Technology — global development

Randall Guensler, Adjunct Professor, PhD, University of California at Davis — transportation planning, vehicle activity monitoring, air quality modeling, environmental impact assessment

Subhrajit Guhathakurta, Professor, PhD, University of California at Berkeley — geographic information systems, sustainability, planning support systems, housing, international development

Nancey Green Leigh, Professor, PhD, University of California at Berkeley — economic development planning, sustainable development, industrial restructuring

Julian Juergensmeyer, Adjunct Professor, JD, Duke University — growth management law, zoning and land use, international and comparative law

Catherine Ross, Harry West Professor, PhD, Cornell University — transportation planning and impact analysis, land use planning, urban revitalization, sustainable development and quality growth

Bruce Stiftel, FAICP, Professor, PhD, University of North Carolina at Chapel Hill — planning theory, citizen participation and conflict resolution, environmental planning, global urbanization

Brian Stone, Professor, PhD, Georgia Institute of Technology — environmental planning, climate and health, urban design

Timothy Welch, Assistant Professor, PhD, University of Maryland — transportation and land use policy, urban planning

Perry Yang, Associate Professor, PhD, National Taiwan University — urban design, urban simulation and geographic information systems, landscape ecology

EMERITUS FACULTY:

Thomas Debo, Professor Emeritus, PhD, Georgia Institute of Technology, 1975 — stormwater management, civil engineering,

Larry Keating, FAICP, Professor Emeritus, PhD, University of Wisconsin at Madison, 1978 — housing economics and policy, real estate and urban land economics, community development

David Sawicki, FAICP, Professor Emeritus, PhD, Cornell University, 1970 — policy analysis and planning, economic development, oceans management

GEORGIA SOUTHERN UNIVERSITY

DEPARTMENT OF GEOLOGY AND GEOGRAPHY

DATE FOUNDED: 1964

DEGREES OFFERED: B.A. and B.S. in Geology; B.A. and B.S. in Geography; M.S. Applied Geography

GRANTED 8/1/16-6/30/17: 25 Bachelors

MAJORS: 65

CHAIR: Dr. James Reichard

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geology and Geography, Georgia Southern University, PO Box 8149, Statesboro, Georgia 30460-8149. Telephone (912) 478-0667. Fax (912) 478-0668. Internet: <http://cosm.georgiasouthern.edu/geo/>

PROGRAM AND RESEARCH FACILITIES: The Department of Geology and Geography offers the B.S. and B.A. degrees in Geology, the B.A. and B.S. in Geography as well as undergraduate minors in geography, GIS, and geology. The Department also offers a Master of Science degree in Applied Geography. The undergraduate geography programs require 124 semester hours, while a minor requires a minimum of 15 semester hours. The M.S. program offers thesis and non-thesis option and requires 36 semester hours for completion. The Geography Program is a campus leader in study abroad offerings and international research, while undergraduate and graduate Geography programs offer students a broad range of courses in human, physical, and regional geography as well as GIS and remote sensing.

Georgia Southern University is a Carnegie Doctoral/Research University and is a unit of the University System of Georgia. University enrollment is more than 27,000 students. The main campus is located in Statesboro, while the Armstrong campus is located less than 50 miles away in historic Savannah. The Department of Geology and Geography operates a research facility, the Applied Coastal Research Laboratory, on Skidaway Island, Georgia, a 250 acre field station at the Ogeechee River just east of the Statesboro campus, and has an executed MOU with the Mindo Cloud Forest Reserve in Ecuador to provide research opportunities for faculty and students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Georgia Southern University operates on the semester system. Financial aid is available to qualified students through the University's Financial Aid Office. For information concerning admission requirements, contact the Admissions Office, Georgia Southern University, PO Box 8024, Statesboro, Georgia 30460. Telephone (912) 478-5391.

FACULTY:

Christine M. Hladik, Ph.D., Georgia, 2012, Assistant Professor of Geography — remote sensing, coastal and marsh environments, modeling

C.J. Jackson, Ph.D., Georgia, 2010, Associate Professor of Geology — coastal geology, shoreline evolution, remote sensing

Jacque L. Kelly, Ph.D., Hawaii-Manoa, 2012, Associate Professor of Geology — groundwater geochemistry, coastal hydrology, remote sensing

Meimei Lin, Ph.D., Miami University, 2015, Assistant Professor of Geography — GIS, remote sensing, agricultural landscapes

Amy Potter, Ph.D., LSU, 2013, Assistant Professor of Geography — Caribbean and U.S. South, tourism, African diaspora, migration

Nicholas C. Radko, MS, Georgia, 2011, Lecturer in Geology — environmental geology, field methods
 James S. Reichard, Ph.D., Purdue, 1995, Professor of Geology and Chair — hydrogeology, environmental geology
 Fredrick J. Rich, Ph.D., Penn State, 1979, Professor of Geology — coastal plain geomorphology, palynology, paleoecology
 Jenny (Xizhen) Schenk, Ph.D., Florida State University, 2012, Lecturer in Geology — hydrogeology, environmental geology
 Kathlyn M. Smith, Ph.D., Michigan, 2010, Associate Professor of Geology — paleoecology, invertebrate paleontology
 Wei Tu, Ph.D., Texas A&M, 2004, Professor of Geography — GIS, economic, China, Asia
 Claude Van Sant, Ph.D., University of Georgia, 2016, Lecturer in Geography — cultural geography, economic geography
 John T. Van Stan, Ph.D., Delaware, 2012, Associate Professor of Geography — forest hydrology, biogeochemical processes, field methods
 R. Kelly Vance, Ph.D., New Mexico Tech, 1989, Professor of Geology — economic geology, igneous and metamorphic petrology
 Mark R. Welford, Ph.D., Illinois, 1993, Professor of Geography — biogeography, nature-society
 Robert A. Yarbrough, Ph.D., Georgia, 2006, Associate Professor of Geography — population, immigration, conservation
 Xiaolu Zhou, Ph.D., Illinois, 2014, Assistant Professor of Geography — GIS, urban environments, spatiotemporal data visualization
 Gale A. Bishop, Ph.D., Texas, 1971, Emeritus — paleontology, crab ecology, sea turtles
 James H. Darrell, Ph.D., Louisiana State, 1973, Associate Professor Emeritus — paleontology, sedimentology, environmental geology
 Daniel B. Good, Ph.D., Tennessee, 1973, Professor Emeritus — cultural geography, resource conservation, historical geography
 Dallas D. Rhodes, Ph.D., Syracuse, 1973, Professor Emeritus — geomorphology, neotectonics, Holocene climate change
 Charles H. Trupe, III, Ph.D., North Carolina, 1997, Associate Professor Emeritus — structural geology, petrography

GEORGIA STATE UNIVERSITY

DEPARTMENT OF GEOSCIENCES

DEGREES OFFERED: BA, BS in Geosciences

(Concentrations in Geography, Geology, Environmental Geosciences, or Urban Studies); MS in Geosciences (Concentrations in Geography or Geology); PhD in Chemistry (Concentration in Geology); Undergraduate and Graduate Certificates in Geographic Information Science.

STUDENTS: 140 Majors, 50 Masters, 4 PhD

CHAIR: Katherine Hankins

BUSINESS MANAGER: Basirat Lawal

FOR FURTHER INFORMATION WRITE TO: Dr. Lawrence Kiage, Director of Graduate Studies in Geosciences, Department of Geosciences, Georgia State University, P.O. Box 4105, Atlanta, Georgia 30303. Telephone (404) 413-5777. Fax (404) 413-5768. Or to Dr. Christy Visaggi, Director of Undergraduate Studies in Geosciences, Department of Geosciences, Georgia State University, Atlanta, GA 30302-4105 Telephone: 404 413-5755. Internet: <http://geosciences.gsu.edu>

PROGRAMS AND RESEARCH FACILITIES:

The Undergraduate and Graduate programs in Geography provide both broad interdisciplinary backgrounds and in-depth disciplinary research and educational opportunities in urban geography, geographic information science, hydrology, climatology, biogeography, and applied geography. Graduate students may elect either a thesis or non-thesis option, in Geography, Geology, or Water

Sciences. Students work with the leading software and hardware including remote aerial vehicles, digital image analysis, remote sensing, ERDAS/Imagine, ArcGIS, and others. Many students take advantage of the numerous internship, employment, and training opportunities, as well as the many state and federal offices within walking distance of the university in the heart of downtown Atlanta. The Department hosts the Georgia Geographic Alliance, providing statewide outreach and educational opportunities.

ADMISSION REQUIREMENTS AND FINANCIAL AID:

All current admissions requirements, information on financial aid and graduate student support, and the online admissions portal are available at <http://admissions.gsu.edu>

FACULTY:

Hassan A. Babaie, Ph.D., Northwestern 1984, Associate Professor—Structural Geology, Geoinformatics
 Dajun Dai, Ph.D., Southern Illinois University, 2007, Associate Professor — GIS, Health Disparities
 Daniel M. Deocampo, Ph.D., Rutgers, 2001, Professor — Sedimentology and Environmental Geochemistry
 Jeremy E. Diem, Ph.D., Arizona, 2000, Professor — Air pollution, applied climatology
 W. Crawford Elliott, Ph.D., Case Western Reserve 1988, Associate Professor — Clay Mineralogy; environmental geology.
 Katherine Hankins, Ph.D., Georgia 2004, Associate Professor and Chair — Urban geography
 Paulo J. Hidalgo-Odio, Ph.D., 2011, Michigan State, Lecturer — Petrology
 Nadine Kabengi, Ph.D., University of Florida, Associate Professor — Soil science; Thermochemistry; Environmental geochemistry
 Lawrence W. Kiage, Ph.D., Louisiana State University, 2007, Associate Professor — Biogeography and Paleoenvironments
 Sarah H. Leford, Ph.D., Syracuse University, 2016, Assistant Professor — Hydrology and hydrogeology
 Brian K. Meyer, Ph.D., Georgia State, 2013, Lecturer — Hydrogeology; Environmental geology
 Richard Milligan, Ph.D., University of Georgia, 2016, Assistant Professor — Political Ecology; Water Governance; Race and environment
 Jan Nijman, Ph.D., UC Boulder, Distinguished University Professor and Director of the Urban Studies Institute — Urban Geography
 Ricardo Nogueira, Ph.D., Louisiana State University, 2009, Lecturer — Climatology and Extreme Weather
 Risa I. Palm, Ph.D. Minnesota, 1972, Professor, Provost and Senior Vice President for Academic Affairs — Urban Geography
 Kavita Pandit, Ph.D., Ohio State, Professor and Associate Provost for Faculty Affairs — Population geography
 Luke Pangle, Ph.D., Oregon State University, 2013, Assistant Professor — Vadose Zone Hydrology, Ecology, Biogeochemistry
 Christy Visaggi, Ph.D., University of North Carolina Wilmington, 2012, Lecturer — Paleobiology, Paleontology, Marine Biology, Geoscience Education

EMERITI FACULTY:

Sanford H. Bederman, Ph.D., Minnesota 1973, Professor Emeritus
 William J. Fritz, Ph.D., Montana, 1980, Professor Emeritus
 Carole E. Hill, Ph.D., University of Georgia 1972, Professor Emeritus
 Timothy E. La Tour, Ph.D., University of Western Ontario, 1979, Associate Professor Emeritus
 Malcolm A. Murray, Ph.D., Syracuse 1955, Professor Emeritus
 Richard R. Pillsbury, Ph.D., Pennsylvania State 1968, Professor Emeritus
 Truman A. Hartshorn, Ph.D., Iowa 1968, Professor Emeritus

KENNESAW STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY & ANTHROPOLOGY

DATE FOUNDED: 2006

DEGREES OFFERED: B.A. in Geography (online and traditional formats), B.S. in Geographic Information Science, Certificate in Geographic Information Sciences (online and traditional formats), Minor in Geography

GRANTED TO DATE: 130 B.S. Geographic Information Science; 105 B.A. Geography

STUDENTS IN RESIDENCE: 31 Geographic Information Science; 48 Geography

CHAIR: Susan Kirkpatrick Smith, Ph.D.

DEPARTMENT ADMINISTRATIVE ASSISTANT:
Susanne Rothery

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. Matthew Mitchelson, Kennesaw State University, Geography and Anthropology Department, 402 Bartow Ave, Bldg. 22 MB#2203, Kennesaw, GA, 30144. Telephone (470) 578-2373. Fax (470) 578-9147. E-mail: mmitch81@kennesaw.edu. Department: <http://ga.hss.kennesaw.edu/>. University: <http://www.kennesaw.edu/>.

PROGRAMS AND RESEARCH FACILITIES: The Department offers a B.A. in Geography (in online and traditional formats), a B.S. in Geographic Information Science (GISc), a Certificate in Geographic Information Sciences, and a Minor in Geography. The Department is strongly focused on preparing students for a globalized world. Faculty members have worked with students in research and study abroad programs in Argentina, Belize, Bolivia, Chile, China, Ecuador, England, France, Greece, Italy, Peru, Russia, and Spain with new programs being developed. Faculty are also actively involved with undergraduate cross-disciplinary programs and the Ph.D. in International Conflict Management.

Students who enroll in the B.A. program immerse themselves in a multifaceted and inherently interdisciplinary field that requires them to have a competency in a foreign language, and an understanding of the fundamental concepts in human geography, physical geography, and geospatial techniques. The degree is tailored to each student based on his/her educational interests and career goals, with emphases on the traditional subfields and themes of the discipline such as cultural, political, economic, urban, and regional geography, physical and environmental geography, and the study of cities and suburbs. All BA students must complete either an internship or conduct research with a faculty member. Coursework is often complemented with both study abroad and faculty-led research opportunities. Courses in Geographic Information Systems can be taken by students seeking the B.A.

The B.S. in Geographic Information Science (GISc) has a strong professional component that prepares students for employment in the GIS field. Coursework integrates practical geospatial skills and technologies with scientific, technological and contextual knowledge. Students may select a concentration in either urban systems or environmental systems. The GISc degree also embeds an Information Technology Certificate, with coursework that complements the GIS and GIT knowledge students need for success in today's geospatial job market. All GISc majors and GIS Certificate students are required to complete a geospatial internship, co-op or practicum.

The Department currently has twelve full-time geography faculty members with strong research records and experience. They hold expertise in the broad fields of geography and environmental studies, including cultural geography, economic geography, GIS, remote sensing, urbanization, water resources, fluvial geomorphology,

biogeography, soils, environmental health, and natural resource management.

ACADEMIC PLAN, ADMISSION REQUIREMENT, AND FINANCIAL AID: Semester System.

Admission requirements: a completed undergraduate application for Admission to KSU submitted online, official scores on all required college entrance tests (either SAT or ACT), official high school and college transcripts.

Financial Aid: student employment opportunities and need-based awards including Federal programs available.

FACULTY:

Erinn Bariteau, M.S., Mississippi State University, 2015, M.S. Lemoyne College, 2007 Lecturer — physical geography, meteorology, severe storms and hail related events, GIS
Nancy Hoalst-Pullen, Ph.D. University of Colorado at Boulder, 2008, Professor — beer, forest dynamics, soils, watershed biogeochemistry, applications of GIS, geospatial education
Ulrike Ingram, M.A., Georgia State University, 2006, Lecturer & GIS Director — geotechnology
Paul McDaniel, Ph.D., University of North Carolina at Charlotte, 2013, Assistant Professor — urban geography, immigrant integration and receptivity, community change and engagement
Matt Mitchelson, Ph.D., University of Georgia, 2010, Associate Professor, Assistant Chair & Geography (B.A.) Coordinator — urban-economic and political geography, geographies of imprisonment, multi- and mixed-method research
Mark Patterson, Ph.D., University of Arizona, 1998, Professor — GIS, remote sensing, natural resources
Jason Rhodes, Ph.D., University of Georgia, 2013, Lecturer — urban geography, landscape studies, political economy, social theory
Vanessa Slinger-Friedman, Ph.D., University of Florida, 2002, Professor and Environmental Studies Coordinator — cultural geography, natural resource management, tropical conservation and development, ecotourism, tropical agriculture, Latin America, the Caribbean, Sub-Saharan Africa, pedagogy
Garrett Smith, Ph.D., University of California at Davis, 1996, Associate Professor & Online Geography (B.A.) Coordinator — cultural & economic geography, forest resources
Bradley Suther, Ph.D., University of Georgia, 2013, Assistant Professor — fluvial geomorphology, soils, Quaternary studies, the southeastern United States
Jun Tu, Ph.D., Graduate Center of the City University of New York, 2008, Associate Professor — environmental geography, medical geography, water resources, air pollution, GIS and spatial analysis, environmental health, urbanization, China
Matthew T. Waller, M.A., Georgia State University, 2010, M.Ed., University of Georgia, 1997, Lecturer — geographic literacy and education, cultural geography, development, aid, and structural adjustment, Sub-Saharan Africa

UNIVERSITY OF GEORGIA

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1946

GRADUATE PROGRAM FOUNDED: 1951

DEGREES OFFERED: A.B., B.S. (Geography), B.S.

(Atmospheric Sciences), M.A., M.S., Ph.D. (Geography),

Ph.D. (Integrative Conservation & Geography),

Certificates in GIScience, Urban & Metropolitan Studies,
& Atmospheric Sciences

GRANTED: 7/1/14-6/30/15: 19 Bachelors, 9 Masters, 6
Ph.D.

STUDENTS IN RESIDENCE: 25 Masters, 55 Ph.D.

HEAD: Steven Holloway

OFFICE MANAGER: Loretta Scott

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Undergraduate Coordinator (Fausto Sarmiento) or Graduate
Coordinator (Andrew Grundstein), Department of Geography,
University of Georgia, Athens, GA 30602-2502. Telephone: (706)
542-2856. Fax: (706) 542-2388. E-mail: geoggrad@uga.edu.
Internet: geography.uga.edu

PROGRAMS AND RESEARCH FACILITIES: The Department of
Geography offers bachelors degrees in Geography and Atmospheric
Sciences, and masters and doctoral degrees in Geography with
specialization in physical and human geography and in GIScience.
The department also offers a joint doctoral degree in Integrative
Conservation and Geography. The department's strengths in physical
geography are in the areas of climatology/atmospheric sciences,
biogeography, geomorphology, Quaternary studies, and
geochronology; in techniques they are in photogrammetry, remote
sensing, and GIS. The human geography program focuses on
geographies of social justice, with substantive specialization in critical
agri-food studies, race and racialization, climate and carbon
governance, urban studies, urban political ecology, legal studies,
international human rights, labor geography, globalization, and
environmental justice.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Students majoring in geography can work toward an
A.B. or B.S. degree or can elect from a number of specialized tracks.

Graduate: Applicants for the M.A., M.S., and Ph.D. degrees must
complete an application form online and pay an application fee.
For application guidelines visit the Graduate School website
(www.grad.uga.edu) or the Department of Geography website
(geography.uga.edu/graduate/), or contact Kayla Timmons
(geoggrad@uga.edu). The department administers graduate and
undergraduate certificates in Geographic Information Science and
Urban & Metropolitan Studies. Approximately 30 teaching
assistantships are awarded each year with a tuition waiver. Support is
normally for two years at the master's level and four years at the
doctoral level. Students with outstanding records may be eligible for
competitive, university-wide fellowships or externally funded research
assistantships.

FACULTY:

Joshua Barkan, Ph.D., Minnesota, 2006, Associate Professor —
social theory, legal geography, economic geography, sovereignty
and corporate globalization

Suzanne Pilaar Birch, Ph.D. Cambridge, 2012, Assistant Professor —
Human paleoecology, biogeography, zooarchaeology, stable
isotope ecology, climate change, landscape/environmental
adaptation

Elgene Box, Ph.D., North Carolina, 1978, Professor — geographic
modeling, ecology, vegetation, global change

*Andrew Grundstein, Ph.D., Delaware, 1999, Professor and Graduate
Coordinator* — climate and health, hydroclimatology,
cryospheric studies

*Andrew Herod, Ph.D., Rutgers, 1992, Distinguished Research
Professor* — labor geography, social theory, globalization,
political economy, global production and destruction networks,
qualitative methods, Australia, Africa, France

Nik Heynen, Ph.D., Indiana, 2002, Professor — urban political
economy/ecology, social theory, inequality and social
movements, ethnography

Steven Holloway, Ph.D., Wisconsin, 1993, Professor and Head —
urban, racial justice, labor and housing market inequalities,
critical quantitative and mixed methods

John Knox, Ph.D., Wisconsin, 1996, Professor — dynamics of
weather and climate, geoscience education, atmospheric hazards,
satellite remote sensing applications

*Gabriel Kooperman, Ph.D., UC-San Diego, Scripps Institution, 2014,
Assistant Professor* — climate, clouds, and land modeling

Hilda Kurtz, Ph.D., Minnesota, 2000, Professor and Associate Head
— critical agri-food studies, environmental justice, and social
movements

David Leigh, Ph.D., Wisconsin, 1991, Professor — geomorphology,
Quaternary studies, geoarchaeology, environmental, soils

*Marguerite Madden, Ph.D., Georgia, 1990, Professor and Director,
CGR* — GIS, remote sensing, landscape ecology

Deepak Mishra, Ph.D., Nebraska, 2006, Associate Professor —
applications of remote sensing, GIS, and GPS to coastal
environments

*Thomas Mote, Ph.D., Nebraska, 1994, Distinguished Research
Professor* — hydroclimatology, synoptic/satellite climatology,
climate change, cryosphere

Lan Mu, Ph.D., UC-Berkeley, 2002, Professor — GIScience, spatial
analysis and modeling, computational geometry

David Porinchu, Ph.D., UCLA, 2002, Associate Professor —
biogeography, paleolimnology, paleoclimatology, water
resources, climate change

Jennifer Rice, Ph.D., Arizona, 2009, Associate Professor — urban
political ecology, science studies, climate and carbon
governance, politics of knowledge

Amy Ross, Ph.D., UC-Berkeley, 1999, Associate Professor — political
economy, human rights and wrongs, genocide, international
institutions, social justice

*Fausto Sarmiento, Ph.D., Georgia, 1996, Professor and
Undergraduate Coordinator* — mountain geography,
biogeography, political ecology, Latin America

Gerald Shannon, Ph.D., Minnesota, 2013, Assistant Professor — food
justice, social determinants of health, urban development,
political geography, mixed methods research, GIS

*Marshall Shepherd, Ph.D., Florida State, 1999, University of Georgia
Athletic Association Distinguished Professor* — urban climate,
precipitation processes, satellite-based remote sensing, tropical
weather hazards

Amy Trauger, Ph.D., Pennsylvania State, 2005, Associate Professor
— food security, sustainability, feminist geography, cultural
economy

Xiaobai Yao, Ph.D., SUNY-Buffalo, 2002, Professor — GIS,
geospatial analysis and modeling, urban and transportation
geography

HAWAII

UNIVERSITY OF HAWAII AT MANOA

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENT
DATE FOUNDED: 1927

GRADUATE PROGRAM FOUNDED: 1931

DEGREES OFFERED: B.A., M.A., Ph.D.

GRANTED 2016-2017: 14 B.A., 7 M.A., 3 Ph.D.

STUDENTS IN RESIDENCE: 50 B.A., 30 M.A., 15 Ph.D.

CHAIR: Hong Jiang

GRADUATE CHAIR: Reece Jones

UNDERGRADUATE CHAIR: Brian Szuster

DEPARTMENT SECRETARY: Judy Naumu

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department Secretary, Department of Geography, 2424 Maile Way, Saunders 445, University of Hawaii at Manoa, Honolulu, Hawaii 96822. Telephone (808) 956-8465. Fax (808) 956-3512.

E-mail: uhmgeog@hawaii.edu.

Internet: <http://www.geography.hawaii.edu/>

PROGRAMS AND RESEARCH FACILITIES: Programs of study lead to B.A., M.A., Ph.D. degrees in Geography. The University of Hawaii's location offers natural advantages for studies of the peoples and lands of Asia and the Pacific. Faculty interests and supporting strengths of the University and the East-West Center provide opportunities for students to pursue interests in areas such as: environment (biogeography, climatology, hydrology, marine ecology), human geography (political, cultural, social, political ecology), and geographic technologies (GIS, remote sensing, cartography, field techniques). The department emphasizes fieldwork (both local and in the Asia-Pacific region) and the integrative nature of the discipline. Departmental research facilities include laboratories for: climate and eco-hydrology, geomorphology, global environmental change science, cartography, GIS, and geo-environmental remote sensing.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: UNDERGRADUATE: The University of Hawaii at Manoa is on a semester system with 31 credits in geography required for the major. This includes 16 credits of required general geography courses, and 15 credits of upper division electives. Students are encouraged to focus their upper division electives in one of three streams (human geography, environmental geography, or geospatial technologies). There are no special admission requirements for the major and any student in good academic standing (2.0 or better GPA) is eligible.

GRADUATE: Students define their specialization in consultation with their adviser and advisory committees. The M.A. program includes a core program of seminars (7 credits), courses within the area of specialization (12 credits), research skills (3 credits) and a thesis. Ph.D. requirements include a core program of seminars (4 credits), courses within a defined area of specialization (minimum 15 credits), plus an approved sequence of advanced courses in research techniques (minimum 6 credits). Candidates must present a dissertation proposal at a department colloquium, pass written and oral comprehensive examinations, and defend a dissertation. Admission to the M.A. program requires a minimum grade point average of B (3.00 on a four-point scale) during the junior and senior years. Admission to the Ph.D. program requires a superior record in graduate work and evidence of research ability. Both M.A. and Ph.D. applicants must submit transcripts, GRE scores (aptitude tests only), and letters of

appraisal from three referees (prefer academic). Available departmental financial aid includes teaching assistantships and tuition waiver awards. In addition, East-West Center Scholarships are available to Americans studying Asian or Pacific topics, as well as foreign students from Asian or Pacific nations. The application deadline for department assistantships is January 15, and November 1 for East-West Center Scholarships. Prospective students should contact faculty with compatible interests as early as possible to facilitate planning.

FACULTY:

David W. Beilman, Ph.D., UCLA, 2006, Associate Professor — biogeography, climate change, wetland ecosystems

Qi Chen, Ph.D., UC Berkeley, 2007, Professor — remote sensing, GIS and applications in environmental science

Thomas W. Giambelluca, Ph.D., Hawaii, 1983, Professor — ecohydrology, climatology, climate change

Hong Jiang, Ph.D., Clark, 1997, Associate Professor — cultural geography, perception of nature, ideas of nature in Chinese thought

Reece M. Jones, Ph.D., Wisconsin at Madison, 2008, Professor — political geography, borders, territory, sovereignty, South Asia

Lisa C. Kelley, Ph.D., UC Berkeley, 2017, Assistant Professor — critical physical geography, land use, agrarian change, Southeast Asia

Camilo Mora, Ph.D., Windsor, 2004, Associate Professor — biodiversity patterns, processes, threats, conservation, and their implications for human welfare

Mary Mostafanezhad, Ph.D., Hawaii, 2011, Assistant Professor — humanitarianism, political ecology, critical geopolitics, Southeast Asia

Yi Qiang, Ph.D., Ghent (Belgium), 2012, Assistant Professor — GIS, visual analytics, and geocomputation.

Alison Rieser, LL.M., Yale, 1990, Professor — political geography of oceans, oceanic legal histories, politics of marine science

Krisnawati Suryanata, Ph.D., UC Berkeley, 1994, Associate Professor — political economy of natural resources, agriculture and food, political ecology, community-based natural resource management, Indonesia

Ross A. Sutherland, Ph.D., Toronto, 1988, Professor — geomorphology, environmental contaminants, erosion, data analysis

Brian W. Szuster, Ph.D., Victoria (Canada), 2001, Associate Professor — environmental impact assessment, marine tourism, coastal management, Thailand

EMERITUS FACULTY:

Sen-dou Chang, Ph.D., Washington, 1961, Professor — China, regional development

Murray Chapman, Ph.D., Washington, 1970 — population (mobility), field methods, Melanesia

Roland Fuchs, Ph.D., Clark, 1959 — population, urbanization and development in Asia

Gary A. Fuller, Ph.D., Pennsylvania State, 1972 — population, geography of prophylaxis

Nancy D. Lewis, Ph.D., University of California, Berkeley, 1981 — human health, development, gender, human ecology, climate change, development

Brian J. Murton, Ph.D., Minnesota, 1970 — historical, cultural, tropical agrarian systems, New Zealand

Mark A. Ridgley, Ph.D., Pennsylvania State University, 1986 — Human, Environment Systems Analysis

Lyndon Wester, Ph.D., UCLA, 1975 — plant geography, Southeast Asia

Everett A. Wingert, Ph.D., Washington, 1973, Professor — cartography, remote sensing

COOPERATING AND AFFILIATE GRADUATE FACULTY:

Henry Diaz, Ph.D., Colorado, 1985 — climate change

Douglas Eisinger, Ph.D., Wales, 2005 — air quality, environmental policy analysis
Jefferson Fox, Ph.D., Wisconsin, 1983 — community-based management, land cover change, spatial information technology
Erik C. Franklin, Ph.D., University of Hawaii at Manoa, 2012 — marine biology, spatial modeling, application of GIS
Mark D. Merlin, Ph.D., Hawaii, 1979 — biogeography, natural history of Hawaii
Mark D. Needham, Ph.D., Colorado State, 2006 — recreation, nature-based tourism

IDAHO

UNIVERSITY OF IDAHO

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1970

GRADUATE PROGRAM FOUNDED: 1965

DEGREES OFFERED: B.S. Geography, M.S., Ph.D., GIS Certificate, Climate Change Certificate

GRANTED 9/1/2016-8/31/2017: 11 Bachelors, 5 Masters, 4 Ph.D.

STUDENTS IN RESIDENCE: 19 Majors, 12 Masters, 8 Ph.D., 27 Certificates

DEPARTMENT CHAIR: Leslie L. Baker

DEPARTMENT ADMINISTRATIVE ASSISTANT:
 Renee Jensen-Hasfurth

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Administrative Assistant, Department of Geography, University of Idaho, 875 Perimeter Drive MS 3021, Moscow, Idaho 83844-3021. Telephone: (208) 885-6216. E-mail: geography@uidaho.edu. Internet: www.uidaho.edu/sci/geography/.

PROGRAMS AND RESEARCH FACILITIES: The department offers B.S., M.S. and Ph.D. programs in Geography, as well as certificates in Climate Change and GIS. Areas of emphasis at both the undergraduate and graduate levels include climate science, glaciology, biophysical and human dimensions of climate change, hazards, political geography, economic geography, remote sensing, and GIS and spatial analysis. Our facilities include remote sensing and GIS teaching labs as well as research labs in climate science, ice core analysis, applications of remote sensing and GIS to wildland fire, landscape-scale carbon cycling and mitigation/adaptation of climate change. GIS instruction has been part of the program for over 30 years and the department now has a wide network of graduates working in the Pacific Northwest region who help with internship and employment placement opportunities. In addition to general education and geography requirements, geography students may take courses in the related colleges and programs at the University of Idaho, in fields such as forestry, agriculture, architecture, environmental science, water science, bioregional planning, engineering, law, and business. Washington State University (WSU) is only 8 miles away in Pullman, WA and students may take advantage of resources and coursework there in atmospheric science, environmental impact assessment, and environmental engineering.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Semester system. The department offers a program leading to the degree of B.S. in Geography as well as certificates in Climate Change and GIS certificate. Students are not required to select an option, but may choose to focus their coursework to obtain depth in any of these areas: hazards and society, global &

regional studies, Geographic Information Systems (GIS), remote sensing, weather and climate, biophysical and/or human aspects of climate change. The B.S. degree requires 120 total credits, of which 36 must be in Geography.

M.S. AND PH.D.: The department has expanded in recent years via strategic hires focused around biophysical and human dimensions of climate change. These hires have complemented existing faculty expertise in climate, global and regional studies, remote sensing and GIS, spatial statistics, economic and political geography, and transportation. Prospective graduate students are encouraged to visit our department web page to learn more about faculty research interests. In addition to our core programs in Geography, faculty advise students in University of Idaho interdisciplinary programs such as Environmental Science, Water Resources and Bioregional Planning. Students pursuing M.S. degrees may choose between a thesis-based and non-thesis professional option.

Admissions to the Graduate College requires a minimum GPA of 3.0 overall, current (within 5 years) GRE scores, and 3 letters of recommendation from professors and/or job supervisors evaluating applicant's ability to pursue graduate studies. Transcripts of all academic experience and general Graduate Record Examination (GREs) are required. Undergraduate degree need not be in geography, but students entering the program with degrees in other fields are required to take some additional coursework in Geography beyond the requirements for the M.S. or Ph.D. requirements.

Admissions to the Ph.D. Program requires a Master's degree, current GRE scores, a letter of interest stating research interest, three letters of reference, and transcripts. Part-time teaching assistantships, research assistantships, and fellowships are available along with other financial aid in the form of scholarships and work study.

GIS CERTIFICATE: The GIS Certificate Program is designed to serve students and professionals either in a degree program or separate from a degree program. The certificate requires 15 credits of GIS-related coursework. For more information about the program, please visit our web site.

CLIMATE CHANGE CERTIFICATE: The Climate Change Certificate Program serves students and professionals either in or separately from a degree program, but is of primary interest to students majoring in related fields such as Environmental Science, Forestry, Fire Ecology, and Natural Resource Conservation. The certificate requires 15 credits of climate change-related coursework. For more information about the program, please visit our web site.

FACULTY:

John Abatzoglou, Ph.D., University of California Irvine, 2009, Associate Professor — weather and climate, climate change impacts on fire and water resources in the American West, hydrology, meteorology, ecosystem dynamics
Raymond Dezzani, Ph.D., California, Riverside, 1996, Professor — spatial statistics, political and economic geography, globalization, regional political/economic integration and inequality
Chao Fan, Ph.D., Arizona State University, 2017, Assistant Professor — Geographic information science, remote sensing, spatial analysis and modeling, urban heat island mitigation, vegetation modeling, land cover land use change, agriculture management
Grant Harley, Ph.D., University of Tennessee, 2012, Assistant Professor — Dendrochronology, paleoclimatology, climate change, wildfire, drought, cave and karst environments
Jeffrey A. Hicke, Ph.D., University of Colorado at Boulder, Colorado, 2000, Associate Professor — global environmental change, interaction of climate, forests and disturbances such as wildfire and insect outbreaks

Karen Humes, Ph.D., University of Arizona, 1992, Professor — Applications of remote sensing and GIS in hydrology, environmental science, planning for renewable energy

Haifeng Liao, Ph.D. University of Utah, 2014, Assistant Professor — Economic geography, regional development, globalization, China, urbanization, land use, land use-transportation interactions, spatial statistics

Thomas Ptak, Ph.D., University of Oregon, 2017, Assistant Professor — Human geography, energy geography

Steven Radil, Ph.D. University of Illinois, 2011, Assistant Professor — political geography, politics of conflict, spatial analysis, and police militarization in the U.S.

RESEARCH FACULTY

Vladimir Aizen, Ph.D., Academy of Sciences, Moscow, Russia, 1988, Research Professor — alpine hydrology, glaciology and glacio-climatology

Elena Aizen, Ph.D. Russian Academy of Sciences, Moscow, Russia, 1986, Research Professor — climatology, glaciology, paleoclimate reconstruction, and mathematical modeling of the climate systems.

PROFESSOR EMERITUS

Kang-tsung Chang

Allan Jokisaari

Gundars Rudzitis

Sam Scripster

ILLINOIS

AUGUSTANA COLLEGE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1949

DEGREES OFFERED: B.A.

GRANTED 8/25/16-8/20/17: 12 Majors, 2 Minors

STUDENTS IN RESIDENCE: 44 Majors, 10 Minors

CHAIR: Jennifer Burnham

DEPARTMENT ADMINISTRATIVE ASST: Shanna Roberts

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chair, Department of Geography, Augustana College, 639 38th St., Rock Island, Illinois 61201. Telephone (309) 794-7845. Fax (309) 794-7564. E-mail: jenniferburnham@augustana.edu. Internet: <http://www.augustana.edu/academics/areas-of-study/geography>

GENERAL PROGRAM: The department functions as an integral part of the general curriculum of this 2,500-student liberal arts college and provides a solid major for students planning on graduate school in geography or planning. It serves annually over 600 students in 25 different courses plus independent study and field experience options. Upper level courses are offered thematically in physical, environmental, historical, urban geography and planning, regionally on Latin America and the Arctic, and in a sequence of methodological and techniques courses in cartography, geographic information systems and geographic research. The department is committed to cross-disciplinary links and is involved in instructional activities with the biology, education, English, geology, history, political science, public health, and Spanish departments. Geography is one of the core departments in the college's environmental studies program.

SPECIAL PROGRAMS: Department faculty participate in the college's multi-discipline study away programs in East Asia and Latin America, and conduct international research in northwest Greenland.

A special geography summer field research course is held each year in the Upper Midwest, Pacific Northwest, or Gulf Coast region. Through its Community Academic Associates network, the department has an extensive set of internship placements in the local area, the Upper Mississippi Valley and the Chicago metropolitan area with municipal and regional planning offices, private consulting firms and government agencies such as the Army Corps of Engineers, Natural Resources Conservation Service, and Fish and Wildlife Service; faculty members also serve as commission members or do research for these agencies. Under special coordinated accelerated degree arrangements with Duke University and the University of Illinois, students may spend three years at Augustana and then two or three years at the university, earning a B.A. from Augustana and a Masters in Environmental Management or Forestry from Duke or a Masters in Landscape Architecture from the University of Illinois.

FACILITIES: The department is located in Swenson Hall of Geosciences which received a \$2 million renovation and is equipped with smart classrooms and labs. The map library, a depository of both the U.S. Government and the U.S. Geological Survey, contains over 100,000 maps and approximately 6,000 remotely-sensed images. Computer facilities for quantitative and graphics work include PCs with ESRI GIS software and Adobe graphic packages. The geography department has a boat for research and teaching on the Mississippi River: a 29-foot passenger boat rated for 25 students that serves as a floating classroom with bathymetric and sediment-surveying capabilities. Augustana owns and manages three research field stations totaling 600 acres in northern Illinois. These sites contain ecologically significant habitats that can be used for student and faculty research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Flexible ten-week, three term system. Admission is competitive and selective. Admitted students excel in a challenging college prep curriculum and rank in the top quarter of high school class; the middle 50 per cent of students score between 24-29 on the ACT. Ninety per cent of students received financial assistance in the form of need-based or merit-based resources.

FACULTY:

Jennifer Burnham, Ph.D., Washington, 2007, Associate Professor and Chair — physical, soils, cartography, climate change, Arctic

Reuben Heine, Ph.D., Southern Illinois, 2006, Associate Professor — physical, GIS, water resources

Christopher Strunk, Ph.D. Minnesota, 2012, Assistant Professor — urban, economic, conservation, Latin America

Matthew Fockler, Ph.D. Montana State, 2014, Assistant Professor — cultural, historical geography of the U.S., land management

CHICAGO STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY, SOCIOLOGY, HISTORY, AFRICAN-AMERICAN STUDIES, AND ANTHROPOLOGY

DATE FOUNDED: 1958

GRADUATE PROGRAM FOUNDED: 1970

DEGREES OFFERED: B.A. in Geography (currently not accepting new applicants), M.A. in Geography, M.A. in Geography with GIS Concentration, Graduate Certificate in Geographic Information Systems, Graduate Certificate in Community Development

GRANTED 7/1/2017-5/31/2018: 2 Masters, 1 Certificate

STUDENTS IN RESIDENCE: 1 Major, 25 Masters

CHAIR: Gebeyehu Mulugeta

GEOGRAPHY COORDINATOR: Gebeyehu Mulugeta

DEPARTMENT ADMINISTRATIVE ASST: To Be Filled

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Gebeyehu Mulugeta (undergraduate) or Dr. Daniel Block (graduate), Chicago State University, Ninety-Fifth Street at King Drive, Chicago, Illinois 60628-1598. Telephone (773) 995-2186. Fax (773) 995-2030. Internet: <https://www.csu.edu/gshaa/geography/>

PROGRAMS AND RESEARCH FACILITIES: The department offers a B.A. in Geography requiring completion of 33 hours in geography. Students may choose to concentrate in general geography, community development, environmental justice, GIS, or secondary teaching. This program is currently not accepting new applicants.

The flexible M.A. program in geography is designed for students interested in teaching, government, private employment, or further research. A six hour core forms the basis of both the basic M.A. degree and the M.A. in Geography with a Concentration in GIS. There are no language requirements. A thesis is required. Most graduate courses are offered at night or online.

The Department also offers Graduate Certificates in Geographic Information Systems and in Community Development, as well as undergraduate minors in Geography and Geographic Information Systems.

The Fredrick Blum Neighborhood Assistance Center, housed in Geography, is a multidisciplinary effort to mobilize the resources of the University to support community development projects. In addition to providing faculty with opportunities for involvement in instruction, research and consulting activities, the program creates learning experiences for both undergraduate and graduate students from disciplines across the University. Students in a variety of fields are able to assist in research and work with community groups. CSU's library and the department's laboratory facilities are enhanced by the resources of the Chicago Metropolitan Area, which also serves as a source of extensive and varied urban field work and internship opportunities. The GIS laboratory is equipped with sixteen networked workstations and a data server. Applications residing on the computers include ArcGIS and Extensions, ERDAS IMAGINE, IRISI, SPSS, and word processing and spread sheet programs.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

GRADUATE: Admission requirements: (1) a Bachelor's degree with a grade average of B or better although promising students may be admitted conditionally with a slightly lower average and (2) fifteen hours of undergraduate work in geography, although conditional admission is sometimes possible with fewer hours. The University is on the semester system. Scholarships, assistantships, and loan and work-study programs are available. For information contact Dean of Arts and Sciences (773) 995-2339.

Student Internships are available at public agencies, civic organizations, and in private industry.

FACULTY:

Daniel Block, Ph.D., UCLA, 1997, Professor and Coordinator of the Neighborhood Assistance Center — food systems, community development, medical, cartography, GIS

Tekleab Gala, Ph.D., Western Ontario, 2011, Assistant Professor of Geography — remote sensing, GIS, soils, medical

Gebeyehu Mulugeta, Ph.D., Michigan State, 1991, Professor of Geography and Chair, Department of Geography, Sociology, History, African-Americans Studies, and Anthropology — cartography, GIS, remote sensing, quantitative methods, Africa

ADJUNCT FACULTY:

Margaret King, Ph.D., Illinois-Chicago, Instructor — human, urban
John Owens, M.A., Chicago State, Instructor — neighborhood development

EMERITI FACULTY:

William A. Peterman, Ph.D., Denver, 1972, Professor Emeritus — urban, planning, community development, environmental analysis

Irvin Roth, Ph.D., Syracuse, 1968, Professor Emeritus — economic, urban, India

DEPAUL UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1898

DEPARTMENT FOUNDED: 1948

DEGREES OFFERED: B.A., Certificate in GIS

GRANTED 01/01/17-12/31/17: 13 B.A., 16 GIS Certificates

STUDENTS IN RESIDENCE: 49 B.A., 45 GIS Certificates

CHAIR: Euan Hague, Ph.D.

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

DePaul University, Department of Geography, 990 W. Fullerton Avenue, Suite 4300, Chicago, Illinois 60614. Telephone (773) 325-7669. E-mail: geography@depaul.edu.

Web: <https://las.depaul.edu/academics/geography/Pages/default.aspx>

PROGRAMS AND RESEARCH FACILITIES: The Bachelor of Arts in Geography is offered by DePaul's College of Liberal Arts and Social Sciences. It provides Geography majors with a choice of four concentrations: (1) Urban Development and Planning; (2) Environment and Society; (3) GIS and Geotechnology; (4) Standard Geography. Students in the major can also pursue the Honors Program, double majors or other disciplinary minors. The Department offers a broad Geography curriculum, balancing courses in theory, thematic fields, methods, and technical areas of the discipline. Particular strengths are Urban Geography, GIS and Remote Sensing, Political Ecology, Environmental Geography, Cultural Geography, and Political Geography. Geography is also a key component of DePaul's interdisciplinary MA in Sustainable Urban Development which began in 2013-14, and provides leadership to the interdisciplinary undergraduate minors in both Food Studies and in Cities. A close-knit Department of eight tenure-track faculty allows strong cooperation between faculty and students, and the possibility to design customized programs of instruction. The Department supports the Mu Alpha chapter of Gamma Theta Upsilon and was honored with the AAG's Award for Bachelors Program Excellence in 2016.

DePaul students may pursue their studies on either of the two campuses located in Chicago's Lincoln Park and the Loop. Programs in the Department of Geography are primarily offered on DePaul's Lincoln Park Campus, located in close proximity to Lake Michigan, Wrigley Field, and the "L" trains of the Chicago Transit Authority. The University has been aggressively improving its physical facilities having recently constructed a large library complex, a Science Quad, a 4-level fitness facility and Student Center at the Lincoln Park Campus, new Theater and Music School facilities, and a 10,000 seat sports arena which opened in 2017. The growing collection of the DePaul University libraries includes almost 720,000 physical volumes, in addition to 275,000 e-books, 37,270 microform volumes, over 6,000 printed serial subscriptions and 62,000 digital subscriptions, and varied on-line and audiovisual collections including subscriptions to media streaming services. Access via I-SHARE on-line allows students to identify and access materials from 85 other colleges and universities in Illinois. In addition, current students, faculty, and staff have access to 375 electronic databases. Our location in Chicago provides students a vast array of academic resources, such as the Newberry Library, and the libraries of the Art Institute, the Field Museum of Natural History and the Chicago History Museum, as well as several other large academic libraries. Furthermore, the city

provides significant opportunities for student field work and Geography-related internships which complement academic studies at DePaul with practical experience.

The Department has been instrumental in introducing GIS across the University curriculum. In summer 2016 the Department of Geography opened a new, state of the art 18-terminal GIS Laboratory, a high-end facility geared to support students and faculty with interests in the areas of geospatial analysis and modeling, remote sensing, and cartographic design. This facility supports the undergraduate Certificate Program in GIS, which was initiated in 1996, and the new Graduate Certificate in GIS which became available in Summer 2018.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: DePaul University operates on the quarter system. Admission is possible for any academic quarter. Admission requirements, university catalogues and program information are available through the Office of Admissions, College of Liberal Arts and Social Sciences, DePaul University, 2352 North Clifton Avenue, Chicago, Illinois 60614. Telephone: (773) 325-7310 or on the web at www.depaul.edu. Inquiries concerning financial aid should be directed to the Office of Financial Aid, DePaul University, 1 East Jackson Blvd, Suite 9000, Chicago, Illinois 60604-2287.

FACULTY:

Carrie Breitbach, Ph.D., Syracuse, 2006, Instructor — cultural, economic, gender
Alec Brownlow, Ph.D., Clark, 2003, Associate Professor — urban environmental, political ecology, human-nature interaction, social theory
Winifred Curran, Ph.D., Clark, 2004, Associate Professor — urban, social, economic, gender
John Goldman, MS, Penn State, 1986, Instructor — meteorology, quantitative methods
Nandhini Gulasingham, MS, DePaul University, 2002, Instructor — GIS
Euan Hague, Ph.D., Syracuse, 1998, Professor and Chair — cultural, urban, historical, political
Sungsoo (Julie) Hwang, Ph.D., SUNY at Buffalo, 2005, Associate Professor — GIS, transportation, housing
Connie Johnston, Ph.D., Clark, 2013, Instructor — cultural, feminist
Patrick McHaffie, Ph.D., Kentucky, 1992, Associate Professor — GIS, remote sensing, history of cartography, science studies, cultural
Heidi J. Nast, Ph.D., McGill, 1992, Professor, International Studies Program — cultural, urban, gender, sexuality, geographic thought, Africa (affiliated faculty)
Alex G. Papadopoulos, Ph.D., Chicago, 1993, Associate Professor — urban, political, European Union, Balkans
Maxim Samson, Ph.D., University of Leeds, 2017 — cultural, urban, religious
Maureen Sioh, Ph.D., University of British Columbia, 2000, Associate Professor — economic, development, environment, Southeast Asia
Heather Smith, MA, Columbia University (NY), 2000, Instructor — urban planning
Byungyun Yang, Ph.D., University of Georgia, 2011, Assistant Professor — GIS, remote sensing

STAFF:

Cassie Follet, MA, West Virginia University, 2016, GIS Coordinator

EASTERN ILLINOIS UNIVERSITY

DEPARTMENT OF GEOLOGY/GEOGRAPHY

DATE FOUNDED: 1895

DEGREES OFFERED: B.S. in Geology, B.S. in Geography, B.S. in Science Teacher Certification (Earth Science designation), B.S. in Social Science Teacher Certification (Geography designation), Professional Science Masters in GIS, and minors in Broadcast Meteorology, Earth Science, Geography, Geographic Information Sciences, and Geology

GRANTED 9/1/16 - 8/31/17: 4 in Geology (B.S.); 18 in Geography (B.S.); 1 in Science Teacher Certification; 2 in GIS (PSM)

UNDERGRADUATE MAJORS: 35

CHAIR: Diane Burns

DEPARTMENTAL OFFICE MANAGER: Susan Kile

FOR CATALOG AND FURTHER INFORMATION WRITE:

Department of Geology/Geography, 600 Lincoln Avenue, Eastern Illinois University, Charleston, Illinois 61920-6033. Telephone (217) 581-2626. E-mail: geoscience@www.eiu.edu. Internet: www.eiu.edu/~geoscience.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geology/Geography in the College of Sciences offers the B.S. degree in Geology and the B.S. degree in Geography. Program options available in Geography include the Human Geography Option and Environmental/Physical Geography Option. Students must complete 36 semester hours of geography, earth science, geology or other approved elective courses selected from their option menu in addition to 13 semester hours of required courses. Undergraduate minors are offered in Geology, Geography, Earth Science, and two interdisciplinary minors in Geographic Information Sciences and Broadcast Meteorology. In addition, an Honors Program is offered to Geology and Geography majors who maintain a 3.5 cumulative grade-point average (on a 4-point scale).

The department also offers two teacher certification programs: B.S. in Science (Earth Science designation) and B.S. in Social Science (Geography designation), and participates in an interdisciplinary Master's program: Professional Science Masters in Geographic Information Sciences (PSM in GIS). Participants completing the B.S. in Science requirement will be certified to teach biological sciences, chemistry, earth sciences, and physics. Those who complete the B.S. in Social Science will be certified to teach economics, geography, history, political science, psychology, and sociology/anthropology. The B.S. in Science, in addition to earth sciences, requires relevant courses in biological sciences, chemistry, and physics. The B.S. in Social Sciences, in addition to geography, requires relevant courses from economics, history, political science, psychology, and sociology/anthropology.

The PSM in GIS includes coursework in Biological Sciences, Business Administration, Geography, Earth Science, Political Science and Sociology. The PSM is a non-thesis master's program that requires a capstone internship experience. Currently, options are being developed to offer this as an accelerated program (undergraduates who qualify can take courses at the graduate level that would satisfy undergrad requirements; upon completion of their B.S., they only do an additional year of coursework/requirements to obtain the PSM. The second alternative which is being developed is offering this degree completely online.

Programs are enhanced by established departmental field programs, internships, independent studies, student/faculty collaborative research opportunities, scholarships, and honors programs. Student's academic

experiences are enhanced by the unique departmental collaboration between geologists and geographers and faculty specialties in both disciplines. Field experiences include day, weekend and week-long field trips as well as the required six week field camp for Geology undergraduates.

Students in the Department of Geology/Geography have available several classroom and research laboratories including the Surficial Processes Lab, Geographic Information Sciences Lab, Paleontology Lab, and XRD/Microscopy Lab. The GIS labs contain personal computers, printers and plotters and make use of ArcGIS, ENVI and Surfer along with other current relevant software. A dedicated server is maintained for faculty and students in the department. Additionally, there is a dedicated student work room with computers and workspaces to provide majors with a quiet place to study. The department is located in the Physical Science Building, centrally located on a tree-shaded 320 acre campus. Eastern, situated in East Central Illinois in the city of Charleston (population 30,000), is primarily a residential campus with approximately 8,500 full-time students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: For information about programs in the Department of Geology and Geography, contact: Chair (geoscience@eiu.edu). For information about admission requirements, contact: Office of Admissions (admissions@eiu.edu). Financial aid is available to qualified students through the Financial Aid Office – see the website for more information: (<https://www.eiu.edu/admissions/financial.php>).

FACULTY

Diane M. Burns, Ph.D., Wyoming, 2006, Chair, Associate Professor of Geology — sedimentology, stratigraphy
Michael W. Cornebise, Ph.D., Tennessee, 2003, Interim Associate Dean of the College of Sciences, Professor of Geography — population geography, cultural geography
Cameron D. Craig, M.A., Indiana State, 2002, Instructor — climatology, physical geography, atmospheric education
James A. Davis, Ph.D., Kansas State, 2001, Associate Professor of Geography — human/economic geography, resources
Katherine Lewandowski, Ph.D., Ohio State, 2008, Associate Professor of Geology — Cenozoic climate change and paleoceanography, benthic foraminiferal micropaleontology, paleoecology, evolution, and stratigraphy, Geoscience education
Barry J. Kronenfeld, Ph.D., SUNY-Buffalo, 2004, Associate Professor of Geography — geographic information systems, historical U.S. landscape change, cartography
Christopher R. Laingen, Ph.D., Kansas State, 2009, Associate Professor of Geography — Use of Remote Sensing and GIS in Regional (Bio)geography, Rural Geography, and Agricultural Geography, Changing rural geographies of U.S. Midwest/Corn Belt/Heartland
James D. Riley, Ph.D., Illinois, Urbana-Champaign, 2012 Associate Professor of Geography — regional geomorphology, hydrology
Betty E. Smith, Ph.D., SUNY-Buffalo, 1994, Professor of Geography — urban systems, geographic information systems, Latin America
David C. Viertel, Ph.D., Texas State, 2008, Associate Professor of Geography — remote sensing, urban environments

ILLINOIS STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY, GEOLOGY, and the ENVIRONMENT

DATE FOUNDED: 1857

DEGREES OFFERED: B.A., B.S. in Geography, B.S. in Geology, M.S. in Hydrogeology

GRANTED 2018: Geography-22, Geology-18, Hydrogeology-6

MAJORS 2018: Geography-80, Geology-66, Hydrogeology-16

CHAIR: Dagmar Budikova

ADMINISTRATIVE ASST: Karen Dunton

FOR CATALOG AND FURTHER INFORMATION: Department of Geography, Geology, and the Environment - Illinois State University, Campus Box 4400, Normal, Illinois 61790-4400. Telephone (309) 438-7649. Fax (309) 438-5310. E-mail: geo@ilstu.edu. Internet: <http://www.geo.ilstu.edu/>.

PROGRAMS AND RESEARCH FACILITIES: Program fields correspond with faculty expertise that include: physical and applied climatology, paleoclimatology, human-environment interactions, geographic information systems, cartography, remote sensing, hydrology, and quantitative methods. Faculty members have regional strengths and many have conducted foreign, national, or local fieldwork.

The Institute of Geospatial Analysis & Mapping (GEOMAP) was dedicated in 2008. Its mission is to support research activities that aim to improve our understanding of complex interactions between human and natural systems through the application of state-of-the-art geographic information sciences and technologies. Technical skills in cartography and GIS are especially popular among our students.

The department maintains 3 computer labs equipped with the latest hardware and software packages for current applications in physical and human geography.

The University Library has a substantial map collection and more than 2,000,000 volumes supplemented by a courier service to the University of Illinois Library and the Center for Research Libraries.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Geography majors are required to take 50 credit hours, ranging from introductory, regional requirements, thematic requirements, and electives. The major requires a capstone internship that provides an opportunity for the students to find employment prospects in geography and related fields. Four themes bridge the differences in faculty expertise and training. These themes are: Community and Regional Development, Environmental Science, Geographic Information Systems and Technology, and Human-Environment Interactions.

The Geography Teacher Certification major prepares students to become teachers in grades 6 through 12 and helps them gain certification as Geography and Social Science teachers. The requirements are similar to those in the non-teaching major with additional certification courses in the College of Education. 56 hours are required. Student teaching is part of the Teacher Certification requirement.

The department offers an interdisciplinary minor, Environmental Studies, which requires substantial course work in geography.

The department offers a Geography Minor which requires 21 hours of Geography classes.

FACULTY:

Tenley Banik, Ph.D., Vanderbilt University, 2015, Assistant Professor — mineralogy, petrology, volcanology
Amy Bloom, Ph.D., Utah, 2006, Instructional Assistant Professor — climate and environmental change, paleobiogeography, quaternary environments
Dagmar Budikova, Ph.D., Calgary, 2001, Department Chair, Professor — climatology, GIS, quantitative methods
James E. Day, Ph.D., Iowa, 1988, Professor — invertebrate paleontology, paleoecology
Alec L Foster, Ph.D., Temple University, 2016, Assistant Professor — urban environmental, political, sustainability, socio-ecological systems
Matthew Himley, Ph.D., Syracuse, 2010, Associate Professor — environmental, political, Latin America
John C. Kostelnick, Ph.D., Kansas, 2006, Professor — GIS, cartography, cultural geography
Megan Maher, B.S., Illinois State University, 2014, Administrative Professional — GIS, cartography, special statistics
David H. Malone, Ph.D., Wisconsin, 1994, Distinguished Professor — structural geology, stratigraphy
Paul Meister, MS., Illinois State, 2016, Administrative Professional — general education, computation lab specialist
Eric Peterson, Ph.D., Missouri-Columbia, 2002, University Professor — hydrogeology, karst, modeling
Catherine O'Reilly, Ph.D., Arizona, 2001, Associate Professor — limnology, biogeochemistry
Reecia Orzech, Ph.D., Syracuse, 2007, Assistant Professor — human, cultural, Middle East
R.J. Rowley, Ph.D., Kansas, 2009, Associate Professor — GIS, urban, human, cultural geography
Wondwosen Seyoum, Ph.D., University of Georgia, 2016, Assistant Professor — hydrogeology, remote sensing, modeling, water management
Jonathan Thayn, Ph.D., Kansas, 2009, Associate Professor — remote sensing, GIS, biogeography
Jill Freund Thomas, M.S., Idaho, 1986, Administrative Professional — geography-earth science education, cartography
Lisa Tranel, Ph.D., Virginia Tech, 2010, Associate Professor — active tectonics and geomorphology
Henry J. Zintambila, Ph.D., Hawaii, 1982, Assistant Professor — climatology, Africa

EMERITI FACULTY:

Paul S. Anderson, Ph.D., Australian National, 1979
James R. Carter, Ph.D., Georgia, 1973
Robert G. Corbett, Ph.D., Michigan, 1964
E. Joan Miller, Ph.D., North Carolina, 1965
Robert S. Nelson, Ph.D., Iowa, 1970
Michael D. Sublett, Ph.D., Chicago, 1974
William D. Walters, Jr., Ph.D., Indiana, 1974

NORTHEASTERN ILLINOIS UNIVERSITY

DEPARTMENT OF GEOGRAPHY & ENVIRONMENTAL STUDIES

DATE FOUNDED: 1965**DEGREES OFFERED:** B.A. Geography, B.A.

Environmental Studies, M.A. Geography and
 Environmental Studies, Certificate in Geographic
 Information Science, Graduate Certificate in Geographic
 Information Science.

GRANTED 7/1/16-6/30/17: 12 Geog B.A., 14 ES B.A., 8
 M.A., 10 GIS Certificates (undergraduate and graduate)

STUDENTS: 15 Geog B.A., 46 ES B.A., 27 M.A., 36 GIS
 Certificates

ACTING CHAIR: Michael Wenz, Ph.D. (773) 442-5597 m-wenz@neiu.edu

COORDINATOR: Melinda Storie, Ph.D. (773-442-5697 ms-storie@neiu.edu)

ADMINISTRATIVE ASSISTANT: Cindy Jones (773) 442-
 5640 ges@neiu.edu, <http://www.neiu.edu/ges>

FOR CATALOG AND FURTHER INFORMATION:

Department of Geography & Environmental Studies, Northeastern
 Illinois University 5500 N. St. Louis, Chicago, IL 60625 Website:
www.neiu.edu

PROGRAMS AND RESEARCH FACILITIES:

The Bachelor of Arts in Geography, in the College of Arts and Sciences is a traditional geography degree with an emphasis on urban planning, GIS, and environmental issues. It combines the conceptual disciplinary work within human and physical geography with the integrative tools of GIS, cartography, spatial statistics, and field methods. The Department of Geography & Environmental Studies (G&ES) also offers a B.A. in Environmental Studies, with emphasis on policy/planning or education/interpretation. A 33-hour Master of Arts in Geography and Environmental Studies combines all these strengths and allows students to design their own research track. The Department introduced GIS to the curriculum in 1991 and now offers two certificates, one at the undergraduate and one at the graduate level. Each is each comprised of five geospatial courses as well as statistics. A minor in Geography, one in Environmental Studies, and one in Geographic Information Science are also offered.

Northeastern is primarily a commuter university with nearly 10,000 students attending classes at four locations in the Chicagoland area. G&ES is housed on the University's main campus on Chicago's far north side. The main campus is set on 67 landscaped acres surrounded by a quiet residential community, with ample parking and access by public transportation. Northeastern was named sixth "Best Investment" in higher education nationwide by Newsweek, and its student body is ranked among the most diverse in the Midwest. The University's first residential housing unit opened on the main campus Fall 2016.

G&ES classes make use of the Chicago surroundings by way of field trips, service-learning, guest lecturers, and adjunct faculty drawn from the professional community. Geography students may undertake a carefully designed and supervised internship in urban planning, GIS, or other field in the student's career or research interest. There are also opportunities for student/faculty research projects and the department offers an annual guided Field Camp, abroad. Class sizes are small and all sections are taught by a core of five tenure track faculty members, a strong group of regular Instructors and active professionals who contribute to the rich curriculum. Students may also incorporate a limited number of courses from other departments into their degree

with advisor approval.

G&ES maintains two computer laboratories with student access 24/7. Technical courses are scheduled in “smart” classrooms and the department’s more traditional classroom is also fitted with laptops for student in-class use. A number of courses are also available online.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Northeastern Illinois University uses a semester calendar, with six-week and 12-week summer sessions. Information for scholarships, federal and state assistance, loans, and employment is available on the web site: www.neiu.edu or by phone: (773) 583-4050.

FACULTY:

Judy Bock, Instructor, M.A. Geography & Environmental Studies, Northeastern Illinois University 1982 — geography education
Mark Boyle, Instructor, Ph.D. Human Geography, University of St. Andrews 2017 — human geography
Thomas Brecheisen, Instructor, Ph.D. Civil Engineering, University of Illinois at Chicago 2017 — environmental studies
Robyn Flakne, Instructor, Ph.D. Forestry, University of Minnesota, St. Paul 2000 — urban environment, forest resources
Dennis Grammenos, Associate Professor, Ph.D. Geography, University of Illinois, Urbana-Champaign, 2000 — urban/social geography
Erick Howenstine, Professor, Ph.D. Geography, University of Washington 1989 — GIS, cartography
Melinda Storie, Assistant Professor and G&ES Coordinator, Ph.D. Natural Resources and Environmental Sciences 2008, University of Illinois, Urbana-Champaign — environmental education, environmental interpretation, conservation psychology
Alex W. Peimer, Assistant Professor, Ph.D. Geography, University of Illinois Urbana-Champaign, 2016 — environmental policy and governance, water resources, political ecology
Ting Liu, Assistant Professor and GIS Coordinator, Ph.D. Geography, Florida State University 2014 — GIS, remote sensing, land change science

NORTHERN ILLINOIS UNIVERSITY

DEPARTMENT OF GEOGRAPHIC AND ATMOSPHERIC SCIENCES

DATE FOUNDED: 1968

GRADUATE PROGRAM FOUNDED: 1968

DEGREES OFFERED: B.A., B.S., M.S., Ph.D. in
Geography, B.S. in Meteorology, B.S. Emphasis in
Geomatics, Certificates in GIS/GIA

GRANTED: 9/1/16 - 8/31/17: 21 Bachelors, 7 Masters, 1
Ph.D.

STUDENTS IN RESIDENCE: 77 Majors, 11 Masters, 9
Ph.D.

NOT IN RESIDENCE: 2 Masters, 4 Ph.D.

CHAIR: David Changnon

DEPARTMENT ADMINISTRATIVE ASST: Dawn Sibley

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Coordinator of Graduate Studies, Department of Geographic and Atmospheric Sciences, Davis Hall 118, Northern Illinois University, DeKalb, Illinois 60115. Telephone: (815) 753-6826. Fax (815) 753-6872. Internet: www.geog.niu.edu

PROGRAMS AND RESEARCH FACILITIES: The B.S. and B.A. in Geography are structured around five fields of study: natural

environmental systems, urban/economic systems, GI Science, area studies and geomatics (land surveying). Undergraduate and graduate Certificates in GIS can be earned online, or as part of degree program on campus. Degree-seeking students may participate in experiential learning in the department’s labs and through internships, mentored research, and the department’s programs in community-based geography. The B.S. program in geomatics meets State of Illinois educational requirements for the (NCEES) Surveyor In-Training exam.

The B.S. in Meteorology is a science-based, pre-professional program conforming to American Meteorological Society and National Weather Service standards. Mentored research and internships are available in a variety of weather analysis, applied meteorology and applied climatology fields. Students may take courses in broadcast media through the university’s Communication Studies program. All students are required to complete three semesters of calculus, one year of calculus-based physics, one semester of statistics, and one semester of a programming language.

The Ph.D. and M.S. programs invite students with interests in biogeography, climatology, environmental systems, food systems, GI Science, hydrology, soils, weather-related hazards, health, urban, transportation or economic geography. The Master of Science program normally takes two years to complete; the Ph.D. requires 60 semester hours beyond the master’s degree, including dissertation. All students must successfully complete core courses in the intellectual basis of modern geography, research methods, and quantitative methods, and successfully pass a comprehensive exam. Masters students may choose a 30 credit hour thesis track or a 36 credit hour non-thesis track. Doctoral students complete at least 6 semester hours in topical advanced course work, at least 6 hours of applications experience, at least 9 semester hours in cognate fields outside the department, and a dissertation.

The department maintains a variety of laboratories to support teaching and research in climatology, biogeography, GI Science, meteorology, remote sensing, soil science, and spatial analysis. Resources include: instrumentation for the analysis of soil physical and chemical properties, tree ring cores, and stream flow; field sampling tools; GPS and land surveying equipment; a fixed-site automated weather station and mobile weather stations; field photosynthesis system; soil sampling ATV; and germination/growth chamber. The department also operates the community’s National Weather Service cooperative weather station.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Graduate: N.I.U. operates on a semester system. Admission as a graduate student requires a bachelor’s degree from an accredited college or university, a GPA of at least 2.75 (4-point system), and approval of the Department of Geography.

Assistantships and fellowships are awarded for the 9-month academic year with a 12-month waiver of tuition. Applications for graduate assistantships and fellowships should be sent as early as possible; preferably before January 15. Students pursuing a specialization in mapping science or GIS may apply for the Richard E. Dahlberg Scholarship, awarded annually. Grants to support thesis/dissertation research are available through the William Morris Davis Memorial Research Fund. Research positions and internships providing work experience, income, and/or academic credit may also be available. Students interested in funding supports should direct inquiries to the Coordinator of Graduate Studies. Admission decisions are based on a combination of GPA, verbal and quantitative scores on the Graduate Record Exam, a statement of research interest and purpose in pursuing the graduate degree, and at least two letters of evaluation.

FACULTY:

Walker S. Ashley, Ph.D., Georgia, 2005, Professor — weather-related hazards, mesoscale meteorology/ climatology, environmental risk, GIS

David Changnon, Ph.D., Colorado State, 1991, Professor — applied climatology, climate impacts, climate variability and extremes

Xuwei Chen, Ph.D., Texas State, 2006, Associate Professor — transportation analysis and modeling, emergency evacuation, spatial analysis, geovisualization, GIS

Courtney M. Gallaher, Ph.D., Michigan State, 2012, Assistant Professor — sustainable food systems, environmental management, gender issues, Africa

Victorio (Victor) Gensini, Ph.D., University of Georgia, 2014, Assistant Professor — severe convective storms, synoptic meteorology, GIS techniques

Ryan James, Ph.D., UNC-Charlotte, 2012, Assistant Professor — economic, regional development, spatial models, urban planning

Michael E. Konen, Ph.D., Iowa State, 1999, Associate Professor — pedologic, geomorphic, and hydrologic processes

Wei Luo, Ph.D., Washington University, 1995, Professor — geomorphology (Earth and Mars), hydrology, GIS applications, Web-based technology in teaching

Jie Song, Ph.D., Delaware, 1995, Professor — boundary layer meteorology, micrometeorology, atmosphere-plant-soil interaction, numerical modeling

James Wilson, Ph.D., North Carolina, 1991, Associate Professor — public and environmental health, medical geography, hazards, GIS

LABORATORY PROFESSIONALS & INSTRUCTORS:

Kory Allred, PLS, M.S., Southern Illinois, 2006, Geomatics Instructor — Land Surveying, glacial landforms (Mars & Earth), GIS

Philip P. Young, M.S., Northern Illinois, 2012, GIS Project Director — geovisualization

ADJUNCT FACULTY:

James Angel, Ph.D., Illinois, 1996 — climatology

Sharon T. Ashley, Ph.D., Georgia, 2006 — climatology, hazards

Richard Boniak, Ph.D., SIU-Carbondale, 2007 — physical geography, soils, environmental management

Robert T. Fahey, Ph.D., University of Wisconsin, 2011 — forest ecologist

Julie D. Jastrow, Ph.D., University of Illinois-Chicago, 1994 — soil biology

William P. Kleiman, M.S.Ed., Northern Illinois, 1986 — restoration ecology

Michael T. Ritsche, M.S., Northern Illinois, 2001 — climatology, weather instrumentation

Mark W. Stelford, Ph.D., Northern Illinois, 2001 — soils, spatial analysis, agriculture

DEPARTMENT ASSOCIATES:

Robert B. Ridinger, Librarian, Subject Area Specialist

SOUTHERN ILLINOIS UNIVERSITY CARBONDALE

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL RESOURCES

DATE FOUNDED: 1936

GRADUATE PROGRAM FOUNDED: 1936

DEGREES OFFERED: BS Geography and Environmental Resources (specializations in Environmental Sustainability, Geographic Information Science, and Climate and Water Resources); Undergraduate Minor in Geography and Environmental Resources; Undergraduate Minor in Sustainability; Undergraduate Minor in GIS; Undergraduate Interdisciplinary Minor in Environmental Studies; MS Geography and Environmental Resources (specializations in Environmental Sustainability, Geographic Information Science, and Climate and Water Resources); Graduate Certificate in Sustainability; Graduate Certificate in GIS; PhD in Environmental Resources and Policy

GRANTED (1/1/17-12/31/17): 10 Bachelors, 9 Masters

STUDENTS IN RESIDENCE (1/1/17-12/31/17): 40 Majors, 20 Masters

CHAIR: Justin Schoof

DEPARTMENT OFFICE ADMINISTRATOR: Laura Germann

UNDERGRADUATE AND GRADUATE PROGRAMS

ASSISTANT: Jennie Absher

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography and Environmental Resources, Southern Illinois University Carbondale, 1000 Faner Drive, Room 4520, Carbondale, Illinois 62901. Telephone 618.536.3375. Fax 618.453.6465. Email geog@siu.edu. Internet <http://cola.siu.edu/geography/>

PROGRAMS AND RESEARCH FACILITIES: Geography at SIU Carbondale focuses on environmental sustainability, geographic information science, climatology, and water resources at the undergraduate and graduate levels. Field work, computer-based analysis, and internships are prominent components of the integrated environmental problem-solving approach evident in both undergraduate and graduate programs. We have two computer labs: the Environmental GIS Laboratory and the Advanced Geospatial Analysis Laboratory, which give our students hands-on experience with current computing technology.

The computing environment at the SIU Carbondale campus provides easy access and 24-hour availability to all SIU Carbondale students. SIUs recently renovated Morris Library is one of the largest in North America with 2.6 million volumes, 200,000 e-books, 43,000 current periodicals and serials, 255,000 maps and 93,000 aerial photographs. We are located in Carbondale, a city of 26,000 residents that is 100 miles southeast of St. Louis. Our region is rugged and picturesque, with two state parks and five large recreational lakes within ten miles of campus. Students often conduct fieldwork in the nearby natural areas, including the Shawnee National Forest and federal and state wildlife refuges. The SIU Sustainability Council works to bring together and highlight campus programs and departments that work to make campus more sustainable while also conducting research and helping the campus community achieve sustainability. The SIU Carbondale Green Fund supports on-campus renewable energy, energy efficiency, and sustainability by providing funding for projects, student travel, and research. The town of Carbondale is also environmentally progressive with curb-side recycling, a

comprehensive public bus system, and three weekly farmers' markets. Overall, the Department of Geography and Environmental Resources at SIU Carbondale represents an academic unit within a diverse ecological and social setting.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, FINANCIAL AID: SIU Carbondale operates on a 16-week semester system, with additional sessions (4-week and 8-week) within the summer.

Undergraduate Program: Majors earn a Bachelor of Science degree in Geography and Environmental Resources studying the dynamic relationship between nature and society in the field and the computer laboratory as well as in the traditional classroom. Students choose among three specializations: Environmental Sustainability, Geographic Information Science (GIS), or Climate and Water Resources. A foundation of core courses helps students develop the analytic and research skills appropriate to their research interest. SIU Carbondale awards a wide range of scholarships based on financial need and/or academic performance. Additional scholarships are awarded by the Department of Geography and Environmental Resources.

Graduate Certificate Program: We currently offer two graduate certificates to help students build the skills that are currently in demand in the US job market. The Certificate in Sustainability addresses emerging needs for sustainable development, while the Certificate in GIS prepares students for the growing market in geospatial techniques.

Graduate Program: Students earn a Master of Science degree in Geography and Environmental Resources with a concentration in Environmental Sustainability, Geographic Information Science (GIS), or Climate and Water Resources. Submit applications by January 15 to ensure consideration for financial support for the Fall semester. Late applications will be considered for admission when possible. Visit <http://gradschool.siu.edu/> for admissions details. Financial awards include teaching assistantships, research assistantships, and University fellowships. Assistantships are \$12,564 for nine months plus tuition waiver. Limited summer financial assistance is available.

PhD Program in Environmental Resources and Policy: This interdisciplinary doctoral program features six concentrations in: Earth and Environmental Processes; Energy and Mineral Resources; Environmental Policy and Administration; Forestry, Agricultural and Rural Land Resources; GIS and Environmental Modeling; and Water Resources (<http://info.erp.siu.edu/>).

FACULTY:

Leslie A. Duram, Ph.D., Colorado, 1994, Professor — agricultural geography, organic agriculture, rural land use, watershed management

Trenton Ford, Ph.D., Texas A&M University, 2015, Assistant Professor — land-atmosphere interactions, drought prediction, North American hydroclimatology, remote sensing hydrology

Ruopu Li, Ph.D., University of Nebraska, 2012, Assistant Professor — land use modeling, land suitability, lidar-derived hydrographic modeling, groundwater, climate change impacts on water resources

Jonathan Remo, Ph.D., Southern Illinois University Carbondale, 2008, Associate Professor — fluvial geomorphology, river and floodplain management, natural hazards, hydraulic, geospatial, and hazard modeling

Justin Schoof, Ph.D., Indiana University, 2004, Professor and Chair — climate variability and change, climatological methods, applied climatology

Audrey Wagner, M.S., Southern Illinois University, 2011, Lecturer — meteorology and climatology

Guangxing Wang, Ph.D., University of Helsinki, Finland, 1996, Professor — remote sensing, spatial statistics, GIS, environmental modeling and simulation, land cover change

Julie Weinert, Ph.D. Ohio State University, 2008, Senior Lecturer — tourism geography, geography of ecotourism, feminist geography, geography of globalization, geography of development

SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1957

GRADUATE PROGRAM FOUNDED: 1966

DEGREES OFFERED: B.A., B.S., M.S. in Geography

DEGREES GRANTED 2017: 35 Bachelors, 9 Masters

STUDENTS IN RESIDENCE: 82 Majors, 18 Masters

CHAIR: Susan Hume

DEPARTMENT SECRETARY: Cat Yurkovich

FOR CATALOG AND FURTHER INFORMATION: Department of Geography, Box 1459, Southern Illinois University Edwardsville, Edwardsville, Illinois 62026-1459. Telephone (618) 650-2090. Fax (618) 650-3591.

E-mail: shume@siue.edu. Internet: www.siu.edu/geography.

PROGRAMS AND RESEARCH FACILITIES: The diversity of faculty interests permits a variety of options for specializations at both the undergraduate and graduate levels. The department has a modern and well-equipped spatial analysis laboratory. Internships with various private and public organizations in the St. Louis, Missouri, metropolitan area may be available for undergraduate and graduate students.

The departmental faculty are engaged in ongoing research in the St. Louis metropolitan area, which provides the opportunity for independent projects in which geographic skills can be applied toward solving real world problems. Undergraduate and graduate students have the opportunity to work on faculty-led research projects. In addition, a number of internship opportunities are available in the local area. Courses are offered during the day and evenings, which permit students to combine their education with part-time or full-time jobs.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: The University is on the semester system with 120 semester hours required for graduation. The department offers a B.A. or B.S. program in Geography consisting of 36 semester hours. A minor or an Area of Specialization (18 hours) related to career goals is required. Inquiries regarding financial aid may be directed to the Financial Aid Office.

Graduate: The Department offers a 30-semester hour program leading to a Master of Science in Geography. A core of four courses (12 hours) is required which consists of courses in research methods, techniques, history and philosophy, and one seminar. With the approval of the department, up to 12 hours from related disciplines may be applied toward the degree program. Students frequently take courses in the Computer Science, Education, Environmental Studies, Computer Management Information Systems, Mathematics, or Public Administration programs. A variety of program options are possible and course of study can be structured to reflect individual goals and objectives. Both a thesis and non-thesis option are available within the M.S. The non-thesis option requires 6 hours of additional coursework

and the successful completion of a graduate research project consisting of a research paper and oral presentation.

To be admitted to the program, students should have preparation in Geography or related areas and an undergraduate grade point average of 2.8 (on a 4.0 scale) or better. Applicants who do not meet these requirements may be considered on a case-by-case basis. The Department has graduate assistantships that provide a stipend and tuition waiver for qualified students on a competitive basis.

FULL AND PART-TIME FACULTY:

The Geography Department has 14 full-time tenured and tenure-track faculty, one of whom is jointly appointed with the Department of Environmental Sciences.

Gillian Acheson, Ph.D., Texas A&M University, 2003, Professor — geographic education, human geography, cultural landscape, population, social justice

Alan W. Black, Ph.D., University of Georgia, 2015, Assistant Professor — climatology, climate change, atmospheric hazards, extreme events

Stacey R. Brown, Ph.D., Oklahoma State University, 2011, Associate Professor — human geography, medical geography, GIS, quantitative methods

Michael L. Grossman, Ph.D., University of Wisconsin, 2003, Professor — physical geography, geomorphology, hydrology

James Hanlon, Ph.D., University of Kentucky, 2008, Associate Professor — urban, cultural, and historical geography, public and affordable housing, urban redevelopment, racial segregation and inequality, social theory

Mark L. Hildebrandt, Ph.D., Arizona State University, 1999, Associate Professor — climatology, meteorology, polar and alpine environments

Shunfu Hu, Ph.D., University of Georgia, 1998, Professor — GIS, multimedia mapping, remote sensing

Susan E. Hume, Ph.D., University of Oregon, 2005, Associate Professor and Chair — Ethnicity and race, immigrant and refugee adaptation, migration studies, cultural geography, urban geography, geographic education

Adriana E. Martinez, Ph.D., University of Oregon, 2013, Assistant Professor — fluvial geomorphology, physical geography, GIS

Francis O. Odemerho, Ph.D., Clark University, 1982, Associate Professor — physical geography, geomorphology, Africa

Randall S. Pearson, Ph.D., Indiana State University, 1993, Professor and Director of the Laboratory for Applied Spatial Analysis — remote sensing, GIS, physical geography

Wendy Shaw, Ph.D., University of Georgia, 1994, Professor — cultural, philosophy/history of geography, development, geographic education

Michael Shouse, Ph.D., University of Kentucky, 2014, Assistant Professor — biogeography, biogeomorphology, GIS, remote sensing

Bin Zhou, Ph.D., University of Georgia, 1995, Professor — economic and urban geography, development, quantitative techniques, Asia

SOUTHWESTERN ILLINOIS COLLEGE

DEPARTMENT OF GEOGRAPHY, HISTORY, AND POLITICAL SCIENCE

DEGREES OFFERED: A.S. with a concentration in
Geography

CHAIR: Carolyn Myers

FOR FURTHER INFORMATION WRITE TO: Jeff Arnold,
Southwestern Illinois College, Department of Geography, History, and

Political Science, 2500 Carlyle Rd., Belleville, Illinois 62221-5899.
Telephone (618) 235-2700, ext. 5412. Fax (618) 235-1578. Internet:
www.swic.edu

COURSES OFFERED: World Regional Geography, Introduction to
Weather and Climate, GIS I, GIS II, Economic Geography, Field
Course: Travel/Study Tour, Regional: North America

**MATRICULATION AGREEMENTS WITH FOUR-YEAR
COLLEGES/UNIVERSITIES:** The State Universities of Illinois.

FACULTY:

Jeff Arnold

PART-TIME FACULTY:

R. Lynn Bradley

UNIVERSITY OF ILLINOIS

DEPARTMENT OF GEOGRAPHY and GEOGRAPHIC INFORMATION SCIENCE

DATE FOUNDED: 1945

GRADUATE PROGRAM FOUNDED: 1950

DEGREES OFFERED: B.A., M.A., M.S., Ph.D., PSM in
GIS

GRANTED 9/1/16-8/31/17: 14 Bachelors, 4 Masters, 3 Ph.D.
STUDENTS IN RESIDENCE: Majors, 3 Masters, 32 Ph.D.

HEAD: Shaowen Wang

DEPARTMENT ADMINISTRATIVE ASST: Matt Cohn

FOR FURTHER INFORMATION WRITE TO: Graduate
Director, Department of Geography and Geographic Information
Science, 2044 Natural History Building, MC-150, 1301 W. Green
Street, Urbana, Illinois 61801. Telephone: (217) 333-1880. E-mail:
geography@illinois.edu. Internet: www.geog.illinois.edu.

PROGRAMS AND RESEARCH FACILITIES: The department is
organized into four areas of specialization for training of graduate
students: 1) Geographic Information Science including space-time
GIS, remote sensing, computational GIS and cyberinfrastructure, and
applications of GIS to geographic problems; 2) River, Watershed and
Landscape Dynamics concentrating on fluvial geomorphology,
watershed hydrology, ecohydrology, and landscape modeling; 3)
Society, Space and Environments concentrating on political ecology,
development geography, politics of the environment, social
vulnerability, green buildings and infrastructure, and social
dimensions of environmental policy; and 4) Cities and Metropolitan
Areas with emphases in urban health and quality of life, urban
governance and politics, race, class, and city policing, critical studies
of urban transportation and mobilities, globalization, neoliberalization
and the city. Strong support for research is also provided through the
various area centers (African, East Asian and Pacific, European
Union, Latin American and Caribbean, South Asia and Middle
Eastern, Russian, East European and Eurasian).

Professional Science Master's program in GIS—The PSM combines
scientific and professional training in GIS and Business to prepare
students for careers with businesses that use and develop geospatial
technologies. Students build a flexible, cross-disciplinary expertise
around a strong Geographic Information Science core, while acquiring
business knowledge and professional skills. The business curriculum
includes technology management, marketing, entrepreneurship,
project and/or project management and finance. PSM students
typically complete the program in sixteen-months, consisting of three
full-time semesters and a summer internship. Students in this program
may not hold assistantships or other tuition and fee waiver-generating
appointments.

Departmental facilities include an instructional GIS laboratory with state-of-the-art hardware and a variety of software including ArcGIS, ERDAS, ENVI, and spatial statistical software. The department also has an Earth materials laboratory for soil and fluvial analysis. The department is home to several specialized research centers: 1) the CyberGIS Center for Advanced Digital and Spatial Studies, which was established as a partnership among several units on campus, and focuses on computationally intensive spatial analysis and modeling, high-performance and collaborative GIS, and cyberinfrastructure-based geospatial problem-solving environments and applications; 2) the Social Dimensions of Environmental Policy program (SDEP) which aims to improve management of the earth's environment through research on social and policy dimensions of sustainability; 3) the Space-Time Analysis Research Lab (STAR) which seeks to develop and apply innovative analytical methods to analyze complex, high-resolution space-time data in health, transport, and urban geographic research. Other research facilities on campus include the largest publicly supported university library in the United States. The Map and Geography Library contains an excellent collection of monographs and journals and one of the largest map collections in the country. There is also access to the National Center for Super Computing Applications, and the department has close research and teaching ties to the Illinois State Geological, Natural History, and Water Surveys and their analytical facilities.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Minimum standard for admission to the Master's program is a B average, higher for the Ph.D. program. Scores from the Graduate Record Examination must be submitted, along with three letters of recommendation. Teaching assistantships, research assistantships and several Graduate College and departmental fellowships are available. Currently, 50%- time nine-month appointments for assistants carry a minimum stipend of about \$16,281 plus remission of tuition. Nearly all resident graduate students, other than PSM students, are supported by fellowships, scholarships, and assistantships.

FACULTY:

James Best, Ph.D., London, 1985, Professor — process sedimentology, flow-sediment interactions
Trevor Birkenholtz, Ph.D., The Ohio State University, 2007, Associate Professor — political ecology, development, social theory, nature-society relations, vulnerability, South Asia, water resources
Julie Cidell, Ph.D., Minnesota, 2003, Associate Professor — transportation, GIS, economic geography, urban political ecology, urban sustainability
Piotr Cienciala, Ph.D., University of British Columbia, 2015, Assistant Professor — Ecogeomorphology and ecohydraulics, impact of land use and climate change on streams, river and watershed conservation
Chunyuan Diao, Ph.D., University of Buffalo, 2017, Assistant Professor — remote sensing, Geographic Information Science and biogeography
Brian J. Jefferson, Ph.D., New School for Social Research, 2013, Assistant Professor — urban geography, carceral geography and critical social theory
Shakil Kashem, Ph.D., University of Illinois, 2015, Teaching Assistant Professor — GIS, environmental policy and planning, disaster risk management, urban growth modeling
Ezekiel Kalipeni, Ph.D., North Carolina, Chapel Hill, 1986, Professor — environmental and resource issues, population, migration, health care, Africa
Mei-Po Kwan, Ph.D., University of California, Santa Barbara, 1994, Professor — environmental health, mobility, urban/transport geography, GIScience, ICT
Sara L. McLafferty, Ph.D., Iowa, 1979, Professor — geography of health, spatial analysis, urban geography, GIS

Bruce L. Rhoads, Ph.D., Arizona State, 1986, Professor — fluvial geomorphology, environmental management, stream restoration, philosophy of geomorphology

Jesse Ribot, Ph.D., California-Berkeley, 1989, Professor — environmental policy, local government, rural representation, distributional equity, social vulnerability

Murugesu Sivapalan, Ph.D., Princeton, 1986, Professor — watershed hydrology, runoff processes, chemical and biological processes in water quality

Shaowen Wang, Ph.D., Iowa, 2004, Professor, Head of Department and Director, CyberGIS Center, Senior Research Scientist-NCSA — cyberinfrastructure, geographic information science, large-scale geospatial problem solving

David Wilson, Ph.D., Rutgers, 1985, Professor — urban, social theory, political, neighborhood dynamics

EMERITI FACULTY:

Thomas J. Bassett, Ph.D., California-Berkeley, 1984, Professor Emeritus — African agrarian systems, political ecology, agriculture development and socio-cultural change, history of cartography

Bruce M. Hannon, Ph.D., Illinois, 1970, Professor Emeritus — energy use and conservation, environmental planning, ecological modeling

Geoffrey J.D. Hewings, Ph.D., Washington, 1969, Professor Emeritus and Director, Regional Economics Applications Laboratory — regional science, methods of urban and regional analysis, regional economic models and forecasting

John A. Jakle, Ph.D., Indiana, 1967, Professor Emeritus — historical, cultural, urban social geography, American landscape

Colin E. Thorn, Ph.D., Colorado, 1974, Professor Emeritus — alpine and periglacial geomorphology, philosophy and theory of geomorphology

DEPARTMENTAL AFFILIATES:

Brian Dill, Ph.D., U. of Minnesota, 2007, Associate Professor — development, political sociology, globalization, sustainability, renewable energy

Zsuzsa Gille, Ph.D., California-Santa Cruz, 1999, Associate Professor, Sociology — environmental sociology, sociology of knowledge, globalization

Jenny M. Johnson, M.S., Illinois, 1985, Map and Geography Librarian and Associate Professor of Library Administration — maps, journals, and other library/geography issues

Faranak MirafTAB, Ph.D., Berkeley, 1995, Professor, Urban and Regional Planning — social aspects of urban development

Marilyn O'Hara, Ph.D., Florida-Gainesville, 1995, Clinical Associate Professor, Veterinary Diagnostic Laboratory, Veterinary Medicine — GIS, cartography, medical geography

Gary Parker, Ph.D., Minnesota, 1974, Professor, Civil Engineering and Geology — river morphodynamics, turbidity flows, alluvial processes

Surangi Punyasena, Ph.D., Chicago, Assistant Professor, Plant Biology — ecology, evolution, conservation

Gillen D'Arcy Wood, Ph.D., Columbia University, 2000, Professor — Environmental humanities, climate change, sustainability

DEPARTMENTAL ADJUNCTS:

James R. Angel, Ph.D., Illinois, 1996, Professional Scientist and Illinois State Climatologist, Illinois State Water Survey — applied climatology, hydroclimatology, statistics, climate change and climate-product delivery systems

Luc Anselin, Ph.D., Ph.D., Cornell, 1980. Distinguished Professor, University of Chicago — spatial econometrics and analysis, GIS

Ashwini Chhatre, Ph.D, Duke, 2006, Senior Research Fellow and Visiting Professor, Indian School of Business Environmental politics — geography of south Asia, political science

Charles Ehlschlaeger, Ph.D., California Santa Barbara, 1998 — environmental modeling

Ulrike Gerhard, Ph.D., 2005, Universitat Wurzburg, Chair of Human Geography of North America, Heidelberg University — urban developments and discourses, urban inequalities, global cities, comparative perspectives, interdisciplinary approaches, North American cities

Jonathan Greenberg, Ph.D., California-Davis, 2004, University of Nevada-Reno, Associate Professor — remote sensing, landscape ecology, vegetation-climate interactions

James Westervelt, Ph.D., Illinois, 1996, Research Scientist, Construction Engineering Research Laboratory — ecological modeling, GIS, urban planning

WESTERN ILLINOIS UNIVERSITY

DEPARTMENT OF EARTH, ATMOSPHERIC, AND GEOGRAPHIC INFORMATION SCIENCES

DATE FOUNDED: 1917

GRADUATE PROGRAM FOUNDED: 1947

DEGREES OFFERED: B.S. Geography and GIS, B.S.

Geology, B.S. Meteorology, M.A. Geography

GRANTED 7/1/17-5/16/18: 15 Bachelors, 6 Masters

STUDENTS IN RESIDENCE: 60 Undergraduate, 14 Graduate

NOT IN RESIDENCE: 6 Masters

CHAIR: Samuel Thompson

DEPARTMENT ADMINISTRATIVE ASST: Ceres Wright

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Samuel Thompson, Chair, Department of Earth, Atmospheric, and Geographic Information Sciences, Western Illinois University, 1 University Cir., Macomb, Illinois 61455-1390. Telephone (309) 298-1648. Fax (309) 298-3003. E-mail: eagis@wiu.edu. Internet: www.wiu.edu/eagis/.

PROGRAMS AND RESEARCH FACILITIES: The department offers three options within its M.A. program: thesis, applied project, and professional plan. Each of these programs provides students with a degree of flexibility. Only two core courses are common to each program. All other aspects of the program are elective, and can be tailored to suit individual objectives. The thesis option is intended for those who plan to enter a doctoral program and/or pursue careers in research. The applied project option is designed to give students practical real-world work experience on a project that may involve an internship. Finally, the professional plan serves practicing professionals and those about to enter the workplace. Students in all programs must submit a proposal for their final product (thesis, applied project or professional plan) and defend the results of their undertaking before a three-member faculty committee.

Department facilities are housed in Tillman Hall and include office space for all full-time graduate students; two GIS labs with more than 60 networked machines running ESRI GIS software and ERDAS Imagine; a County GIS Center responsible for all GIS analysis for the City of Macomb and McDonough County; meteorology laboratory with Linux computers, weather station and weather radar.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: The department offers Bachelor of Science degrees in Geography & GIS, Geology, and Meteorology as well as minors in Geography, Geology, Weather and Climate, and GIS. The Geography degree includes options in geospatial science, human or physical geography. The Geology degree includes an option in

paleontology. The Meteorology degree is designed to meet the NWS and AMS curricular requirements.

GRADUATE: Admission requires that the applicant have a Bachelor's degree from an accredited institution and an overall grade-point average of at least 2.75 (on a 4-point scale), or a grade-point of at least 3.0 for the last two years of undergraduate work. Applicants should have completed at least 24 semester hours of Geography. Students who lack preparation in basic cartographic techniques and/or basic quantitative analysis techniques are required to complete coursework as deficiencies. Students with deficiencies may elect to—and are strongly encouraged to—complete deficiencies prior to beginning the program. Graduate assistantships are available. Assistants receive monthly stipends and their tuition charges are waived. The GRE is highly recommended.

FACULTY:

Steven W. Bennett, Ph.D., Indiana University, 1994, Associate Professor — Hydrogeology and surficial processes

Marcus Buker, Ph.D., Wisconsin, 2004, Associate Professor — Advanced meteorology

Jongnam Choi, Ph.D., Georgia, 2001, Professor — climatology, satellite meteorology, biogeography

Yongxin Deng, Ph.D., Southern California, 2005, Professor — GIS, soils, conservation, world regional

Sunita George, Ph.D., Georgia, 1999, Associate Professor — World regional, population, women studies

Raymond Greene, Ph.D., Georgia, 2000, Associate Professor — GIS, quantitative methods, Africa

Thomas Hegna, Ph.D., Yale, 2012, Associate Professor — Paleontology

Redina Herman, Ph.D., Illinois, 2003, Associate Professor — Advanced meteorology

Ranbir Kang, Ph.D., Oklahoma State, 2005, Associate Professor — Physical Geography, GIS

Fuyuan Liang, Ph.D., Georgia 2008, Associate Professor — Pleistocene geomorphology, physical, remote sensing

Leslie Melim, Ph.D., Southern Methodist, 1991, Professor — Sedimentary geology, igneous and metamorphic petrology

Christopher D. Merrett, Ph.D., Iowa, 1994, Professor and Director, Illinois Institute for Rural Affairs — geographic thought, political geography, Canada and the United States

Christopher J. Sutton, Ph.D., Denver, 1995, Professor — urban, cartography

Samuel Thompson, Ph.D., Akron, 2001, Professor — urban/regional planning, population

INDIANA

BALL STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1965

DEGREES OFFERED: B.A., B.S., M.S.

GRANTED 07/01/16 – 06/30/17: 29 Bachelors

MAJORS: 129 Majors, 9 Masters

CHAIR: Kevin Turcotte

DEPARTMENT ADMINISTRATIVE COORDINATOR: Teresa Wilson

FOR CATALOG INFORMATION WRITE TO: Kevin Turcotte, Ball State University, Geography, Muncie, Indiana 47306-0470. Telephone (765) 285-1776. Fax (765) 285-2351. E-mail: turk@bsu.edu. World Wide Web: <http://www.bsu.edu/geography/>.

PROGRAMS AND RESEARCH FACILITIES:

Programs: The Department of Geography offers both undergraduate and graduate programs that integrate education and technical training for purposes of analyzing space and time from a geographic perspective. Undergraduate programs in human geography, travel/tourism, GIScience and meteorology/climatology lead to B.A. or B.S. degrees, or to one of four minors in geography for students majoring in peripheral fields. M.S. degree emphasis is typically either GIScience or Applied Atmospheric Sciences, although flexibility exists to prepare students for a variety of positions in industry, business, education, and government.

Faculty expertise is found within the areas of cultural-historical geography, urban geography, political geography, geographic education, tourism, cartography, remote sensing/GIS, applied meteorology and climatology, and environmental hazards. Regional specializations include Europe and Russia, South and East Asia, and North America.

Research Facilities: The Department of Geography is housed in the Cooper Science Building with excellent facilities for research and grant/contract work. A staff cartographer is also available. Facilities include labs for GIScience and meteorology/climatology.

The Geography Department houses the GIScience Teaching and Learning Lab which consist of two spaces dedicated to teaching and research in the GISciences. This teaching space accommodates up to 30 students and provides an environment especially conducive to collaborative methodologies and active learning. Each student has updated desktop computers with access to the latest versions of GIS, remote sensing, and other geospatial software packages that are part of the GIScience curriculum at Ball State. The research space accommodates 12-14 people and provides an opportunity for interdisciplinary and/or specialized research using the tools of GIScience. The space features 12 high-end customizable workstations with access to all the GIScience software available in the teaching space. These labs are open to all Geography majors and students enrolled in departmental courses. Ball State University has site licenses for ESRI, ERDAS Imagine and Adobe software.

The department also houses the BSU Meteorology and Climatology Laboratory, which serves a focal point for the analysis of real-time meteorological and climatological data. Primary operations of the weather station include the collection of data through real-time weather observations, the compilation and summarization of weather data, the communication of severe weather information to broadcast media and general public, and the development of both short-and long-term weather forecasts. The BSU Meteorology and Climatology Laboratory serves as the center of the operations for the Ball State Storm Chase Team, which provides real-time field observations of severe weather in central Indiana in support of National Weather Service and local emergency management severe weather operations.

Research at Ball State University is also supported through the Alexander M. Bracken Library which offers convenient access to more than 1.5 million books, periodicals, microforms, audiovisual materials, microcomputer software, government publications, manuscripts, archival records, and electronic databases. The Bracken Library is a depository for over 145,000 maps from the U.S. Geological Survey, U.S. Defense Mapping Agency, U.S. National Ocean Service, and Indiana Geological Survey. Additional materials not directly available from Bracken Library may be obtained through Interlibrary Loan (ILL).

Ball State University is located in Muncie (population 67,000), Indiana, situated within an agricultural region consisting of small towns in close proximity to the Great Lakes and the metropolitan area of Indianapolis (population 1.5 million). These physical and cultural surroundings offer a wide variety of settings for geographic research. Muncie itself (also known as "Middletown, USA") has been the focus

of well-known cultural and social research since the 1920s which has popularized the city as *the* "representative" American community.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Ball State University operates on a semester system. There are two five-week summer sessions and a single ten-week summer semester.

Academic Plan - Undergraduate: The undergraduate Geography program at Ball State University offers four different options within the major, and a major in Meteorology and Climatology.

Concentration 1. Human Geography. This concentration is designed for students interested in the human dimensions of geography. Whether from a social science or humanities perspective, students apply interests in urbanization, religion, language, population, economics, ethnicity, and politics in a spatial context that includes local, regional, and global scales.

Concentration 2. Travel and tourism. This concentration provides students the geographical knowledge, the analytical skills, and the practical experience that are beneficial for successful careers in the travel/tourism industry. The sequence of specialized courses addresses the spatial, organizational, social, and economic aspects of sustainable tourism development, as well as the interaction between tourists and destinations.

Concentration 3. GIScience. This concentration is a technical specialization for students interested in solving social and environmental problems through advanced spatial information technology. Students learn how to visualize information in ways that reveal relationships, patterns, and trends by using computer software for cartography, remote sensing, and GIS. Cartography is the art and science of making maps; remote sensing provides a means to capture visual and digital information about the earth through airborne cameras and advanced electronic spaceborne sensors; a geographic information system is a set of computer tools for analyzing spatial data.

Concentration 4. Meteorological Studies. This concentration is intended for students with interests in weather and climate who seek positions in which knowledge of meteorology and climatology is ancillary to satisfying primary task objectives. Students completing degrees in this concentration find employment in a variety of enterprises, including emergency management, environmental analysis, and transportation planning.

Meteorology and Climatology. The major in Meteorology and Climatology appeals to students with primary interests in weather forecasting and/or atmospheric research. This major meets American Meteorological Society (AMS) qualifications for the title "meteorologist," and Federal Civil Service requirements (GS 1340) for employment by the National Weather Service (NWS). Both students with broadcast meteorology aspirations and those pursuing public or private sector meteorology careers benefit from the systematic investigations of earth-atmosphere system and subsystem dynamics and to train you in the use of technology (satellites, radar, automated weather observations, and numerical weather prediction) to analyze these systems on a variety of spatial and temporal scales. The department offers a number of opportunities for students, including participation in the Cardinal Weather Service and optional coursework in Broadcast Meteorology.

The department also offers minors in human geography, travel and tourism, meteorology and climatology, and GIScience.

Academic Plan - Graduate: Specialized M.S. programs in GIScience and Applied Atmospheric Sciences apply to state-of-the-art technologies such as remote sensing, GIS, and advanced cartographic methods in various sub-disciplines of geography and allied sciences.

A set of core courses in geographic theory (history and philosophy, research methods, quantitative methods) and a thesis project are requirements of both M.S. programs.

GIScience Emphasis. The GIScience emphasis provides advanced education and training in the area of spatial analysis, with intensive studies in cartography, remote sensing, and GIS. Among the essential components of the program are theory, research methods, and application development. To fulfill this goal, practical experience obtained from internships and field research is integrated into the formal curriculum. A wide range of courses are available to meet the student's specific interests. The courses range from advanced cartography, remote sensing, and GIS methods of analysis to designing customized interfaces for modeling and/or viewing purposes. Students can choose to specialize in one of the technical areas or all three. Thesis research topics can be in human or physical geography.

Applied Atmospheric Science Emphasis. The Applied Atmospheric Science emphasis is designed to meet the educational needs of students with strong interests in climatology, weather analysis and forecasting, severe local storms, climate dynamics related to severe local storm environments, and/or mitigation of severe weather in an emergency managements setting.

Graduate Admission Requirements: All successful applicants must first meet the requirements of the Graduate School, then be accepted for graduate work by the Department of Geography. Separate application packets are required for the Graduate School and the department. The department application packet must include GRE scores, transcripts of all previous undergraduate and graduate coursework, three letters of reference, and a carefully constructed statement of the student's research interests.

Financial Aid: There are several research assistantships available that provide full-tuition remission and a stipend. Students receiving stipends provide 20 hours of service per week.

FACULTY:

Christopher Airriess, Ph.D., Kentucky, 1989, Professor — development, cultural landscapes, ethnicity, Southeast and East Asia

Reuben Allen, Ph.D. Indiana State University 2015, Instructor — physical geography, cultural geography and world regional geography

Adam Berland, Ph.D., Minnesota, 2012, Assistant Professor — geographic information science, spatial analysis, urban environments

Call, David, Ph.D., Syracuse University, 2007, Associate Professor — weather and society, climatology, hazards and meteorology

Jill Coleman, Ph.D., Ohio State, 2005, Professor — climatology, bioclimatology, quantitative methods

Nathan Hitchens, Ph.D., Purdue University, 2010, Assistant Professor — forecast evaluation and verification, climatology, and extreme weather

Jerzy Jemiolo, Ph.D., Jagiellonian (Krakow, Poland), 1982, Associate Professor — tourism, transportation, cultural, Europe, Russia

William Price, Ph.D., University of Kansas, 2014, Assistant Professor — cultural heritage, sustainable tourism, industrial tourism, and indigenous geography

Jörn Seemann, Ph.D., Louisiana State University, 2010, Assistant Professor — maps and society, cartography, cultural geography, Latin America

Carol Shears, M.A.E., Ball State, 1982, Assistant Professor — geographic education, physical geography

Kevin Turcotte, Ph.D., Indiana State, 1990, Professor and Chair — GIS, programming GIS

Jason Yang, Ph.D., University of Rhode Island, 2003, Professor — remote sensing, geographic information systems, spatial statistics, research methods

Petra Zimmermann, Ph.D., University of Delaware, 2003, Associate Professor — applied climatology and meteorology, geographic information systems, quantitative methods

INDIANA UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1946

GRADUATE PROGRAM FOUNDED: 1946

DEGREES OFFERED: B.A., B.S., M.A., M.S., Ph.D.

GRANTED 6/1/16-5/31/17: 10 Bachelors, 3 Masters, 1 Ph.D.

STUDENTS IN RESIDENCE: 34 Majors, 5 Masters, 16 Ph.D.

NOT IN RESIDENCE: 2 Ph.D.

CHAIR: Daniel C. Knudsen

DEPARTMENT ADMINISTRATIVE ASST: Kristi Carlson, Susan White

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Susan White, Department of Geography, Indiana University, Student Bldg. 120, Bloomington, Indiana 47405. Telephone: (812) 855-6303. Fax: (812) 855-1661. E-mail: geog@indiana.edu. Internet: www.indiana.edu/geog.

PROGRAM AND RESEARCH FACILITIES: The Ph.D. program is designed to develop each student's abilities to carry out significant research in geography. Graduate study within the department is comprised of five fields: climate and environmental change, food and agriculture, geographic information systems and remote sensing, cities, development and justice, and water resources. Courses in theory, research design, and methods constitute the core of study for all advanced degrees.

Students studying for the Ph.D. are expected to develop a command of theory in their areas of research specialization and demonstrate a capacity to carry out independent research of significant importance. Formal requirements include a set of core courses, a comprehensive examination and completion of the Ph.D. dissertation.

Undergraduate studies leading to the B.A. or B.S. degree emphasize geography as the basis of a strong liberal education. Undergraduate students are also encouraged to develop analytical skills in areas such as geographic information science and statistics.

Indiana University ranks among the top universities in the nation with respect to computing facilities.

The department works closely with other divisions of Indiana University, including the Center for the Assessment of Socio-Economic Landscapes, the Ostrom Workshop on Political Theory, the Center for Race and Ethnicity Studies, the Study of Global Change, the Russian and East European Institute, East Asian Studies, Latin American and Caribbean Studies, African Studies, Institute for European Studies, and Central Eurasian Studies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Indiana University is on the semester system. The department admits students with Bachelor's and/or Master's degree to our Ph.D. program. The department has no terminal Master's degree programs at this time. An undergraduate major in geography, or a close equivalent, and a B average are required for admission to the Ph.D. program. GRE scores must be submitted (minimum of at least 151 on verbal, 150 on quantitative, and 4.5 or better on analytical). Many graduate students receive financial support as teaching assistants or through fellowships and scholarships. Almost all financial awards include fee scholarships which cover the costs of tuition. Teaching assistants may carry up to 12 hours of graduate

credit per semester and are expected to work 20 hours per week in the department. Other awards include University Fellowships, Dissertation Year Fellowships, summer fellowships, and grants-in-aid for doctoral students. Applications for financial aid should be received by December 15.

FACULTY:

Ishan Ashutosh, Ph.D., Syracuse University, 2010, Assistant Professor — Migration, Ethnicity, Urban geography
Elizabeth Dunn, Ph.D., John Hopkins University, 1998, Professor — Effects of large bureaucratic systems during periods of cataclysmic social change
Darren Ficklin, Ph.D., University of California, Davis, 2010, Associate Professor — Watershed hydrology and water quality modeling, Impacts of climate change on the hydrologic cycle, impacts of climate change on aquatic species and ecosystems
Tae Hee Hwang, Ph.D., University of North Carolina, Chapel Hill, Assistant Professor — Eco-hydrology, Remote Sensing, Biogeography
Daniel C. Knudsen, Ph.D., Indiana University, 1984, Professor — Food Studies and Tourism Geography
Rebecca Lave, Ph.D., University of California, Berkeley, 2008, Associate Professor — Critical physical geography, Political Ecology, Political Economy and Social Theory, Science and Technology Studies, Stream Restoration and Fluvial Geomorphology
Natasha MacBean, Ph.D., University College London, UK, 2011, Assistant Professor — Arid Lands; Ecohydrology and Biogeochemistry; Geospatial Science and Modeling; Plant and Soil Ecology; Remote Sensing
Justin Maxwell, Ph.D., University of North Carolina, Greensboro, 2012, Associate Professor — Climatology, Biogeography, Dendrochronology, Forest Disturbances
Scott Robeson, Ph.D., University of Delaware, 1992, Professor — Climate Change Detection, Impacts of Climate Change and Variability, Spatial Data Analysis, Environmental Statistics
Kurt Waldman, Ph.D., Michigan State University, 2014, Assistant Professor — Judgment and decision making related to food, Agriculture, and the Environment
Roman Zlotin, Ph.D., USSR Academy of Sciences, Moscow, 1970, Senior Lecturer — Biogeography

ADJUNCT FACULTY:

Eduardo Brondizio, Ph.D., Indiana University, 1996, Professor — Socio-ecological systems, environmental and economic anthropology
Timothy S. Brothers, Ph.D., University of California, Los Angeles, 1985, Associate Professor — biogeography, environment
Kelly K. Caylor, Ph.D., University of Virginia, 2003, Associate Professor — Eco-hydrology (i.e. the interface between plant ecology and surface hydrology), surface hydrology, dryland ecology & pastoralist agricultural systems, land degradation, hydrological controls on subsistence agricultural productivity
Stephanie DeBoer, Ph.D., University of Southern California, 2007, Associate Professor — transnational or global film and media studies; film and media co-production; film and media's intersection with space, place, and location; East Asian film and media; Japanese and Chinese language film and media; inter-Asia cultural studies; memory and film/media; "new" media and globalization; film and media theory and criticism
Danilo Dragoni, Ph.D., Cornell University, 2003, Assistant Professor — energy and mass (water and carbon dioxide) exchange in urban and forest systems; plant response to change in environmental forcings
Owen Dwyer, Ph.D., Kentucky, 2000, Associate Professor — urban geography, American social movements, Civil Rights movements and the museums and memorial landscapes that commemorate it, geographic education
James Farmer, Ph.D., Indiana University, 2009, Assistant Professor — motivations and barriers to sustainable behavior, mixed-

methods research designs to examine behavior variables in private land conservation, land trust activities, participation in local food systems, and the human dimensions of sustainable agriculture and rural living.

Chunfeng Huang, Ph.D., Texas A&M University, 2001, Associate Professor — Spatial statistics, geostatistics, smoothing splines
Kimberly Novick, Ph.D., Duke, 2010, Assistant Professor — Forest Ecology, Ecosystem Carbon and Water Cycling, Biometeorology
A. Faiz Rahman, Ph.D., University of Arizona, 1996, Associate Professor — spatially distributed carbon cycle science using high resolution remote sensing; application of GIScience methods in spatial and temporal scaling studies; visualization of spatially dynamic and time-series of raster and vector data
Rinku Roy Chowdhury, Ph.D., Clark University, 2003, Associate Professor — Land Change Science, Human Dimensions of Global Environmental Change, Cultural and Political Ecology, GIS/RS, and Landscape and Conservation Ecology
Philip S. Stevens, Ph.D., Harvard University, 1990, Professor of Public and Environmental Affairs — chemical mechanisms which influence local air quality and global climate change, field measurements and modeling of the atmosphere
Dallen Timothy, Ph.D., University of Waterloo, 1996, Professor — international boundaries, heritage tourism and conservation, religious tourism, politics of heritage, global tourism
Jeffrey S. Wilson, Ph.D., Indiana State University, 1998, Professor — remote sensing and Geographic Information Science

EMERITI FACULTY:

Bennet Brabson, Ph.D., MIT, 1966, Professor — Wind energy, Climate change
Dennis Conway, Ph.D., University of Texas, Austin, 1976, Professor — Development, Transnational migration, Migration-development relationships
Charles E. Greer, Ph.D., University of Washington, 1975, Associate Professor — China, resource management
Emilio Moran, Ph.D., University of Florida, 1975, J.A. Hannah Professor of Global Change Science and Professor, Department of Geography, Michigan State University Founder, Anthropological Center for Training and Research on Global Environmental Change (ACT) — tropical ecosystem ecology, Amazon Basin, secondary successional forest, human ecology
Ernest H. Wohlenberg, Ph.D., Washington, 1970, Associate Professor — economic, natural resources, economic developments

VALPARAISO UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND METEOROLOGY

DATE FOUNDED: 1931

DEGREES OFFERED: B.A., B.S.

GRANTED 9/1/16-12/31/17: 9 Bachelors in Geography (2 B.A., 7 B.S.)

MAJORS: 23 in Geography

CHAIR: Teresa Bals-Elsholz

GEOGRAPHY COORDINATOR: Michael Longan

DEPARTMENT ADMINISTRATIVE ASST: Rusta Ault

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Admissions, Valparaiso University, Valparaiso, Indiana 46383. Telephone (219) 464-5140. Fax (219) 548-7738. E-mail: geomet@valpo.edu. Internet: <http://www.valpo.edu/geography-meteorology/>

PROGRAMS AND RESEARCH FACILITIES: The Department offers a B.A. in geography with strong foundational work in geography followed by concentrated study in one of four career areas:

Environmental Geography, Urban Geography and Regional Planning, Computer Cartography/GIS, and Human/Cultural Geography. The B.S. in geography focuses upon environmental geography, physical geography, and geospatial analysis. The department also offers a B.A. in Geography Education, a B.S. in Meteorology, and minors in Geography, Meteorology, American Indian Studies, and GIS. The Department and the University emphasize close contacts between faculty and students. Students undertake independent study projects, work closely with faculty on undergraduate research, and complete internships. Physical facilities include a map depository of the Army Map Service and USGS; the VU Weather Center; Dual-Polarization Doppler Weather Radar; and the F.P. Kallay GIS Laboratory. Fieldwork is an important part of the curriculum. Regular courses include visits to the nearby Indiana Dunes National Lakeshore and Chicago, while field courses have been offered in Hawaii, Alaska, and Arizona's Sonoran Desert. Many students take advantage of one of Valparaiso's International Study Programs in China, Japan, England, France, Germany, Namibia, Costa Rica, or Mexico. VU students organize and participate in Geography Club and GTU. Valparaiso University's Geography program has established and maintains a long held tradition in securing entrance into graduate programs.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System. Application for admission to any program of the University, or for financial aid, can be obtained by visiting <http://www.valpo.edu/admission/apply/> or by writing to the Office of Admissions and Financial Aid, Valparaiso University, Valparaiso, Indiana 46383. Scholastic Aptitude Test (SAT) of CEEB or the ACT Assessment of American College Testing Program required. Eighty percent of students receive Financial Aid.

FACULTY:

Teresa Bals-Elsholz, Ph.D., SUNY-Albany, 2001, Associate Professor — dynamic and synoptic meteorology, computer applications
Craig A. Clark, Ph.D., Iowa State, 2007, Associate Professor — boundary layer meteorology, climate change, dispersion modeling
Bharath Ganesh Babu, Ph.D., Indiana State, 2009, Associate Professor — GIS and remote sensing, biogeography, environmental conservation
Kevin H. Goebbert, Ph.D., Oklahoma, 2009, Associate Professor — synoptic meteorology, tropical meteorology, large and small scale forecasting
Jon T. Kilpinen, Ph.D., Texas, 1994, Dean of the College of Arts and Sciences and Professor — historical geography, GIS, cultural, Europe, United States
Michael W. Longan, Ph.D., Colorado, 2000, Professor — urban geography, rural geography, cultural, communications, Asia, and media
Jon-Paul P McCool, Ph.D., Cincinnati, 2017, Assistant Professor — geoarchaeology, geomorphology, soils, human-environment interaction
Adam Stepanek, Ph.D., Purdue, 2017, Assistant Professor — aviation meteorology, sub-seasonal prediction, severe weather, military applications
Bart J. Wolf, Ph.D., Wisconsin, 1991, Professor — synoptic meteorology, large and small scale forecasting, severe storms

IOWA

UNIVERSITY OF IOWA

DEPARTMENT OF GEOGRAPHICAL AND SUSTAINABILITY SCIENCES

DATE FOUNDED: 1946

GRADUATE PROGRAM FOUNDED: 1946

DEGREES OFFERED: B.A., B.S., M.A., Ph.D.

GRANTED 8/1/16-7/31/17: 9 Bachelors, 3 Masters, 1 Ph.D.

STUDENTS IN RESIDENCE: 60 Majors, 9 Masters, 9 Ph.D.

NOT IN RESIDENCE: 3 Ph.D.

CHAIR: David A. Bennett

DEPARTMENTAL ADMINISTRATOR: Angela Bellew

FOR FURTHER INFORMATION WRITE TO: Graduate Admissions Coordinator, The University of Iowa, Department of Geography, 316 Jessup Hall, Iowa City, Iowa 52242-1316. Telephone (319) 335-0150. Fax (319) 335-2725. E-mail: geography@uiowa.edu. Website: <http://clas.uiowa.edu/geography/>.

PROGRAMS AND RESEARCH FACILITIES: Professional and research degrees are offered in geography at The University of Iowa. The goal of our research graduate program is to prepare students to conduct creative research involving the development and use of geographic theories and methods. Our professional program is designed to provide students with the knowledge and skill needed to apply advanced geographic information technologies to real world problems. Through these programs, we prepare students for positions in research, teaching, or applied geography. Success in achieving these goals has been demonstrated by the strong demand for University of Iowa graduates to fill positions on college and university faculties, and with private and government organizations engaged in both research and practice.

Our program specializes in: 1) environmental dynamics, 2) health geography, 3) geographic information science (GIScience), 4) sustainability science, 5) urban ecology, and 6) environmental hazards. Our research is often team-based and occurs at the intersection of two or more of these areas. GIScience as well as theories and models of environmental and social processes are central to these endeavors. We encourage students to gain experience in multiple areas and to design programs of study and research that reflect their interests, background, and goals. Each student works closely with their advisor to design this program, and active participation in research is a critical component of the graduate experience in the department. Faculty and graduate students frequently collaborate on research. To foster community and intellectual exchange, we encourage students to participate in regional and national professional meetings, seminars, reading groups, and a departmental colloquium series.

The university and the City of Iowa City provide a stimulating social, cultural, and academic environment. Excellent bookstores, galleries, and restaurants, as well as Hancher Auditorium, a world class performance hall, provide big city advantages without the high costs and inconveniences of big city living. Academically, the University of Iowa is highly-ranked nationally and includes a medical school and the world-renowned Iowa Writers Workshop. Faculty and students participate in a variety of interdisciplinary research and teaching programs through key research centers and groups at the University. These include the Center for Global & Regional Environmental Research (CGRER), Environmental Modeling and Exposure Assessment Facility, Center for Health Effects of Environmental

Contamination, Public Policy Center, International Programs, Interdisciplinary Graduate Program in Informatics, Quaternary Studies Group, College of Public Health, Department of Civil and Environmental Engineering, and IIHR—Hydroscience & Engineering. Our faculty members maintain close working relationships with faculty from many disciplines across campus, and students are encouraged to explore such opportunities.

A B.A. or B.S. degree in geography is not a prerequisite for entry into the graduate program, but students are expected to have an undergraduate background relevant to pursuing graduate work in their specialty within geography. Depending on the strength and suitability of their prior training students may be required to take courses that are prerequisites for courses in their elected areas.

The department houses and maintains two computer facilities: the Geographic Information Systems Instructional Laboratory (GISIL) and a departmental research laboratory. The GISIL, which is the teaching facility for GIS and GIS applications courses, is equipped with 26 workstations. The department provides access to GPS receivers, terrestrial LiDAR and aerial hyperspectral imaging sensors, UAVs (unmanned aerial vehicles), a 3D printer, and an Oculus Rift and other Virtual Reality equipment. There is also equipment for field-based biogeographical and ecological studies, and a wide variety of software for mapping, statistical analysis, and GIS. The department also participates in an advanced GIS facility housed in CGRER and has access to high performance computing clusters maintained by the university.

ACADEMIC PLANS, ADMISSION REQUIREMENTS AND FINANCIAL AID:

UNDERGRADUATE: The University is on the semester system. To qualify for admission as an undergraduate major in the department, a student must meet the requirements of the College of Liberal Arts. Questions concerning financial aid should be addressed to the University Student Financial Aid Office in Room 108 Calvin Hall or admissions@uiowa.edu.

GRADUATE: Admission: In determining the admission of a student to its graduate program, the department considers the total record of each student individually, including: (1) undergraduate grade point average, especially from the junior and senior years; (2) scores on the Graduate Record Examination (GRE) General Test; (3) at least three letters of recommendation; (4) an essay in which the applicant sets forth the reasons for wanting to pursue the study of geography at The University of Iowa. Application instructions: <http://grad.admissions.uiowa.edu/academics/geography-ma-or-phd>.

M.A. Degree Requirements: The M.A. is designed to be completed in four semesters. It requires a minimum of 30 semester hours of graduate work, of which 18 semester hours must be graduate-only courses. Competence in a specific area of geography, across the breadth of geography, and in geographical methods is demonstrated by the completion of appropriate course work and a M.A. thesis. A two-year coursework M.A., including a M.A. with specialization in GIScience, is offered.

Ph.D. Degree Requirements: The Ph.D. is a four- to five-year, post-baccalaureate program. While students typically enter the program after completing a MA or MS degree, exceptions can be made for highly qualified and motivated individuals who wish to enter the program directly from an undergraduate program. Competence in a specific area of geography, across the breadth of geography, and in geographical methods is demonstrated by the passing of comprehensive examinations and completion and defense of a dissertation.

Financial Aid: Many admitted students are supported through graduate assistantships. Regular departmental Teaching and Research Assistantships carry stipends of \$19,236 for the two semester

academic year of 2018-19, plus a full tuition scholarship and healthcare benefits. External research grants also provide for research assistants.

The 2018-19 tuition and fees rate for in-state graduate students is \$10,960 for the academic year. Out-of-state students pay \$29,696. All half-time and quarter-time Teaching and Research Assistants are charged at in-state rates, and are provided with a full tuition scholarship for the academic year. All half-time and quarter-time Teaching and Research Assistants are also provided with a 50% fee reduction. The deadline for applicants who wish to be considered for financial aid awards is December 31.

FACULTY:

Marc P. Armstrong, Ph.D., Illinois, 1986, Professor, Collegiate Fellow, and Associate Dean — geographic information science, computational geography

David A. Bennett, Ph.D., Iowa, 1994, Professor and Chair — geographic information science, sustainability, environmental modeling, land use/land cover change

Margaret Carrel, Ph.D., North Carolina, 2011, Associate Professor — health, infectious disease ecology, landscape genetics, population

Matthew Dannenberg, Ph.D., North Carolina, 2017, Assistant Professor — global change ecology, climate, remote sensing, dendrochronology

Caglar Koylu, Ph.D., South Carolina, 2014, Assistant Professor — geographic information science, geo-social networks, big data, visualization

Marc Linderman, Ph.D., Michigan State University, 2002, Associate Professor — remote sensing, environmental modeling, land use/land cover

Claire E. Pavlik, Ph.D., Minnesota, 1990, Lecturer — economic, healthcare, qualitative research methods

Tyler Priest, Ph.D., Wisconsin-Madison, 1996, Associate Professor — energy and environmental policy

Heather A. Sander, Ph.D., University of Minnesota, 2009, Assistant Professor — geographic information science, land use/land cover, environmental modeling, ecosystem services

Silvia Secchi, Ph.D., Iowa State University, 2000, Associate Professor — environmental economics, environmental and conservation policy, economic, geographical, and environmental modeling

Eric Tate, Ph.D., South Carolina, 2011, Associate Professor — flood hazards, social vulnerability and resilience, uncertainty analysis

ADJUNCT FACULTY:

Joshua Busard, MURP, Illinois, 2006, Adjunct Instructor — sustainable urban development, urban and regional planning, LEED certification

Marian V. Muste, Ph.D., Iowa, 1995, Adjunct Faculty — cyberinfrastructure platforms, digital watersheds, sensors and sensing networks for integrated watershed research

Mary Skopec, Ph.D., Iowa, 1999, Adjunct Assistant Professor — water quality, fate and transport of pesticides, monitoring design and optimization, emerging environmental contaminants (pharmaceuticals), and watershed monitoring

Kathleen Stewart, Ph.D., Maine, 1999, Adjunct Associate Professor — geographic information science, modeling geospatial semantics, spatiotemporal data modeling, ontologies and GIS

Peter Weyer, Ph.D., Iowa, 1998, Adjunct Associate Professor — water quality, chronic health effects, environmental epidemiology, environmental health policy

EMERITI FACULTY:

George P. Malanson, Ph.D., UCLA, 1983, Coleman-Miller Professor — ecological modeling, biogeography, landscape ecology, land use/land cover

Michael L. McNulty, Ph.D., Northwestern, 1966, Professor Emeritus — Third World and regional development, urban-rural linkages, Africa

David R. Reynolds, Ph.D., Northwestern, 1966, Professor Emeritus — political, urban, political economy, locational and community effect

R. Rajagopal, Ph.D., Michigan, 1973, Professor — environmental measurements, methods, monitoring, modeling and management, information systems, regulation, policy

Rebecca S. Roberts, Ph.D., Oregon State, 1982, Associate Professor Emeritus — political economy of the environment and natural resources, water and agriculture

Gerard Rushton, Ph.D., Iowa, 1964, Professor Emeritus — location theory, health, geographic information science, behavioral

UNIVERSITY OF NORTHERN IOWA

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1969

GRADUATE PROGRAM FOUNDED: 1969

DEGREES OFFERED: B.A., B.S., M.A.

GRANTED 6/1/17-5/31/18: 8 Bachelors, 9 Masters

STUDENTS IN RESIDENCE: 34 Majors, 17 Masters

HEAD: Tim Strauss

DEPARTMENT ADMINISTRATIVE ASST: Sue Gleason

FOR CATALOG AND FURTHER INFORMATION CONTACT:

Dr. Tim Strauss, Head, Department of Geography, University of Northern Iowa, Cedar Falls, Iowa 50614-0406. Telephone (319) 273-2772. Fax (319) 273-7103. E-mail: tim.strauss@uni.edu. Internet: <http://www.uni.edu/geography/>.

PROGRAMS AND RESEARCH FACILITIES: The Department offers both a BA degree in Geography and a BS degree in Geographic Information Science. There are three concentrations within the BA undergraduate geography major: Globalization and Regional Geography, Planning and Development, and Environmental Systems and Sustainability. There are also three BS major concentrations: Economic Geography and Business, Planning and Policy, and Environmental Science and Policy. A Certificate in Geographic Information Systems and Cartography is also available. The Master of Arts degree is offered with emphases in many subfields of geography including physical/environmental geography (geomorphology, soils, water resources), planning and development (urban, economic, transportation, regional analysis, business geographics), geographic education, GIS, and remote sensing. The Department is housed in the Innovative Teaching and Technology Center. The facilities include a 24-seat Computer Teaching Lab, a Soils and Geomorphology Lab, an Environmental Characterization and Analysis Lab, and a Research Lab for graduate students. Specialized field and laboratory equipment include a hydraulic soil coring machine, a petrographic micro-video system, a Beckman-Coulter laser diffraction particle-size analyzer, a laser-induced breakdown spectroscopy system for elemental analysis, a Rigaku x-ray diffraction system for mineralogical analysis, a ground-based VNIR & SWIR hyperspectral imaging system, a hand-held spectroradiometer, and Trimble GPS receivers. Specialized computer software packages include Erdas Imagine, ENVI, eCognition, IDRISI, and the Esri suite of GIS products.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

GRADUATE: The M.A. degree program is designed to be completed in four semesters. Both thesis (32-hr minimum) and non-thesis (38-hr minimum) tracks are available in the M.A. program. For regular admission into the M.A. program, the Department requires an overall undergraduate GPA of at least 3.00, at least two letters of recommendation, and a two-page essay outlining interests in Geography, reasons for application to the MA program at the

University of Northern Iowa, and future career goals. GRE scores are not required but will be considered if submitted. Graduate Assistantships for research positions and teaching assistant positions and a limited number of Tuition Scholarships are available.

FACULTY:

Dennis E. Dahms, Ph.D., Kansas, 1991, Professor — Quaternary stratigraphy and paleoecology, climate change, soil geomorphology

John DeGroote, MS, Wisconsin - Stevens Point, 2001, Instructor and Director of GeoTREE Center — GIS, geoinformatics

James Dietrich, Ph.D., Oregon, 2014, Assistant Professor — Remote sensing, fluvial geomorphology, GIS, environmental monitoring

Bingqing Liang, Ph.D., Indiana State, 2008, Assistant Professor — GIS, remote sensing, environmental

David W. May, Ph.D., Wisconsin - Madison, 1986, Professor — geoarcheology, Holocene environmental changes, rivers

Lisa Millsaps, Ph.D., Kansas State, 2016, Assistant Professor — Geographic and GIS education, climate change/sustainability education

Alex P. Oberle, Ph.D., Arizona State, 2005, Associate Professor — urban, ethnic, cultural, geography education, US Southwest, Mexico

J. Henry Owusu, Ph.D., Iowa, 1993, Professor — economic, cultural, development, Africa

Patrick P. Pease, Ph.D., Texas A&M, 1998, Professor — geomorphology, aeolian, desert, sediment transport, field methods

Andrey Petrov, Ph.D., Toronto, 2008, Associate Professor — economic, GIS, population, Arctic

Tim R. Strauss, Ph.D., Washington, 1994, Associate Professor and Head — transportation, economic, location analysis, GIS

ADJUNCT/EMERITI/AFFILIATED FACULTY:

Rebecca Kauten, ABD, Iowa, Adjunct Instructor

Donald D. Peterson, M.A., Northern Iowa, 1975, Adjunct Instructor

Chris Simenson, M.A., Northern Iowa, 2004, Adjunct Instructor

Kirk Stufflebeam, M.A., Northern Iowa, 1992, Adjunct Instructor

Mark D. Ecker, Ph.D., Connecticut, 1997, Professor of Mathematics

C. Murray Austin, Ph.D., Pennsylvania, 1971, Professor Emeritus

Thomas Fogarty, Ph.D., Pennsylvania, 1978, Professor Emeritus

James F. Fryman, Ph.D., North Carolina, 1981, Professor Emeritus

Jonathan J. Lu, Ph.D., Washington, 1971, Professor Emeritus

Kay E. Weller, Ph.D., Kansas State, 1993, Professor Emeritus

KANSAS

FORT HAYS STATE UNIVERSITY

DEPARTMENT OF GEOSCIENCES

DATE FOUNDED: 1955

DEGREES OFFERED: B.S. (available on campus and online) and M.S. in Geosciences

CURRENT MAJORS: 100 undergraduates, 20 graduates

CHAIR: P. Grady Dixon

GRADUATE COORDINATOR: Laura Wilson Brantley

DEPARTMENT ADMINISTRATIVE ASST: Ms. Patricia Duffey

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. Grady Dixon, Department of Geosciences, Fort Hays State University, 600 Park St, Hays, Kansas 67601-4099. Telephone (785) 628-5389. E-mail: pgdixon@fhsu.edu.

Internet: <http://www.fhsu.edu/geo/>.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geosciences offers geography specializations that can be tailored to the student's goals and interests. Our entire undergraduate program is offered on campus and online, including an undergraduate certificate in GIS. Graduate students can choose a thesis-based or non-thesis degree program designed to be finished in two years (30 hours of course work). The curriculum is very flexible and designed to encourage cross-discipline study.

While previously part of the College of Arts & Sciences, we are excited to be a founding member of the Werth College of Science, Technology and Mathematics along with departments of agriculture, applied technology, biology, chemistry, math and computer science, and physics in a college that is designed to improve resources and visibility for our students.

The department maintains excellent facilities, including advanced classroom technology, multiple sample-prep and analysis labs, and a GIS lab reserved only for our students. Field experiences are an important part of our culture, so all students have the opportunity for travel, research, and field work. The Sternberg Museum of Natural History is also a part of our university and department. The museum serves the public through educational exhibits and programs while also housing more than 3 million specimens used for research in several different disciplines.

Fort Hays State University is located in Hays, Kansas at the intersection of Interstate 70 and U.S. Highway 183 on the eastern edge of the High Plains. The city of Hays has a population of ~20,000, but its role as a regional center of commerce and culture allow it to offer many more amenities than might be expected of comparably sized towns. Denver, Kansas City, and Wichita are directly accessible via interstate highways. Fort Hays State University has an enrollment of more than 14,000 students, but fewer than 5000 are on campus. So, the university has the feel of a traditional, liberal-arts university with small class sizes, updated facilities, and accessible instructors and administrators.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Fort Hays State University is on a semester plan. Undergraduate admission inquiries should be made to the Admissions Office (<http://www.fhsu.edu/admissions/>). Graduate-school admissions are processed by the Graduate School (<http://www.fhsu.edu/academic/gradschl/>).

Fort Hays State University is exceptionally affordable, and in-state tuition is offered to residents of Kansas and the adjacent states. In-state tuition is offered also to students who qualify for the Midwest Student Exchange Program, and residents of Arizona, Texas, Virginia, and Wyoming are eligible for up to \$20,000 in undergraduate scholarships simply by earning a 980 on the SAT, a 21 on the ACT, a 2.5 GPA, or by graduating in the top 33% of your class. The Department of Geosciences offers more than \$30,000 in scholarships each year in addition to the university opportunities.

FACULTY:

Hendratta Ali, Ph.D., Oklahoma State University, 2010, Associate Professor — petroleum geology
Keith Bremer, Ph.D., Texas State University, 2011, Assistant Professor — human geography, urban sustainability
P. Grady Dixon, Ph.D., Arizona State University, 2005, Professor and Chair — meteorology, climatology, and physical geography
Richard Lisichenko, Ph.D., Kansas State University, 1999, Professor — GIS
Kenneth Neuhauser, Ph.D., University of South Carolina, 1973, Professor — environmental geology
Tom Schafer, Ph.D., Kansas State University, 2000, Associate Professor — physical geography, cartography
Jeanne Sumrall, Ph.D., Mississippi State University, 2015, Instructor — geoscience education, environmental science

Jonathan Sumrall, Ph.D., Mississippi State University, 2013, Assistant Professor — sedimentology, carbonate petrology, and isotope geochemistry

Laura Wilson Brantley, Ph.D., University of Colorado, 2012, Associate Professor and Chief Curator of Sternberg Museum of Natural History — paleontology

KANSAS STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1946

GRADUATE PROGRAM FOUNDED: 1959

DEGREES OFFERED: B.A., B.S., M.A., Ph.D.

GRANTED: 9/1/17-8/31/18: 16 Bachelors, 10 Masters, 3 Ph.D.

STUDENTS IN RESIDENCE: 45 Majors, 7 Masters, 10 Ph.D.

NOT IN RESIDENCE: 5 Ph.D.

HEAD: Charles W. Martin

GRADUATE PROGRAM INFORMATION: Douglas Goodin, Department of Geography, 1002 Seaton Hall, Kansas State University, Manhattan, KS 66506-2904. Telephone (785) 532-6727. Fax (785) 532-7310. E-mail: dgoodin@ksu.edu. Internet: www.ksu.edu/geography/

PROGRAMS AND RESEARCH FACILITIES: The program builds from a strong base in three traditional areas of geographic scholarship: human, cultural and regional geography; earth system geography; and geographic information sciences. Examples of collaboration involve nature-society interactions, population and health, and land change analysis. Rural landscapes and sustainability are the thematic core for the program, consistent with the land grant mission of KSU. Within each area students may pursue research more specific to their individual interests. Within the areas of human, cultural and regional geography, faculty specialties include landscape symbolism, ethnic landscapes, place identity, and religious landscapes. Faculty have regional expertise in North America, Europe, China, South Asia, Latin America, Sub-Saharan Africa, the Great Plains, American West, and in mountainous regions throughout the world. Earth systems geography includes geomorphology, soils, hydrology, biogeography, landscape ecology, paleoecology, climate variability and change, and environmental modeling. Nature-society interactions include studies of human dimensions of environmental change, natural hazards, rural land use and rural change, environmental modeling, water resources, and environmental perception. Population and health geographies include population migration and distribution, spatial patterns of diseases and health outcomes, rural settlement, and sustainable rural communities. Geographic information science includes GIS, remote sensing, spatial modeling, geocomputational and programming methods, Internet GIS, and visualization techniques. Multidisciplinary graduate and undergraduate certificates in GIScience, administered by the department, are also available.

The department has a strong research and teaching reputation and ranks highly among the social and physical sciences at KSU. These strengths have translated into several large grants that support collaborative research between students and faculty. Benefits of the geography graduate program include a balanced curriculum, a broad-based approach to research/scholarship, and a commitment to fieldwork as a component of geographic inquiry. The moderate size of the department fosters an informal, friendly atmosphere with ample opportunity to develop close rapport with faculty members and with visiting research scholars. Department resources include the Geographic Information Systems and Spatial Analysis Laboratory (GISSAL), a remote sensing research lab, a GIS/remote sensing

teaching lab, a physical geography teaching lab, and an analytical laboratory focused on research in Paleoenvironmental Change.

The rolling and tree-shaded university campus is located in Manhattan, population approximately 53,000. Manhattan is situated eight miles north of I-70 in an attractive area of the Flint Hills, adjacent to Tuttle Creek Reservoir and Konza Prairie Biological Station, and one hour north of the Tallgrass Prairie National Preserve.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: The geography major requires 37 credit hours; either a B.S. or B.A. may be earned. Students may also select the preplanning option that requires an additional twenty-one credit hours of planning-related courses.

GRADUATE: Master's students may pursue either a 30 credit hour thesis option or a 32 credit hour report option. Regular admission to the Graduate School and the Department of Geography requires a 3.0 GPA (4.0 scale), three letters of recommendation, submission of GRE scores, official transcripts, and a one- to two-page statement of interests and objectives. Ph.D. applicants should have attained a score of at least 1100 on the combined verbal and quantitative components of the GRE. Ph.D. students are encouraged to pursue research that fits with the department's core areas and complements the rural and land grant tradition of Kansas State University.

Several nine-month appointments as a Graduate Teaching Assistant or Graduate Research Assistant are available each year on a competitive basis; additional support may also be available for summer months. Full-time GTAs receive a stipend and a full waiver of tuition. GRAs, supported from geography faculty research grants, receive a stipend and in-state tuition rates. A limited number of competitive Graduate School stipend supplements may also enhance graduate stipends.

FACULTY:

Marcellus M. Caldas, D.Sc. University of Sao Paulo (Brazil), 2001, Ph.D. Michigan State, 2008, Associate Professor — land use and land cover change (LULCC), GIS and remote sensing applications to LULCC, biofuel policies, land reform in Latin America

Douglas G. Goodin, Ph.D., Nebraska, 1993, Professor — climatology, remote sensing, ecology of infectious disease, spatial analysis and modeling

Lisa M. Butler Harrington, Ph.D., Oklahoma, 1986, Professor — rural land use, natural resources, sustainability, nature-society relationships, public lands, hazards, Pacific Northwest, U.S.

J.M. Shawn Hutchinson, Ph.D., Kansas State, 2000, Professor and Director, GISSAL — environmental modeling, GIS, remote sensing, water resources, biogeography, computer mapping and visualization, biosecurity

Audrey J. Joslin, Ph.D., Texas A&M, 2015, Assistant Professor — environmental governance, political ecology, biodiversity conservation, ecosystem services management, Latin America

Abigail L. Langston, Ph.D., Colorado, 2014, Research Assistant Professor — quantitative geomorphology, landscape evolution modeling, fluvial geomorphology, hydrology, Rocky Mountains

Max Lu, Ph.D., Indiana, 1996, Professor — population and health geographies, regional development, spatial analysis and modeling, China

Charles W. Martin, Ph.D., Kansas, 1990, Professor and Head — geomorphology, fluvial systems, Great Plains, Germany

Kendra K. McLauchlan, Ph.D., Minnesota, 2004, Professor — biogeography, soils, environmental geography, paleoecology, North America

Katherine S. Nelson, Ph.D., Vanderbilt, 2018, Assistant Professor — nature-society relationships, resilience, natural hazards, spatial analysis and modeling

Bimal K. Paul, Ph.D., Kent State, 1987, Professor — natural hazards, medical/health geography, population geography, quantitative methods, South Asia, Great Plains

Jeffrey S. Smith, Ph.D., Arizona State, 1997, Associate Professor — cultural geography, historical geography, place attachment, migration, American Southwest, Mexico

Arnaud J.A.M. Temme, Ph.D., Wageningen (Netherlands), 2008, Associate Professor — geomorphology, soil geography, soil and landscape evolution modelling, mountain soils and geography, Europe

Jida Wang, Ph.D., UCLA, 2013, Assistant Professor — remote sensing, GIS modeling, hydrological dynamics

ADJUNCT AND ANCILLARY FACULTY:

Melinda D. Daniels, Ph.D., Illinois, 2003, Associate Research Scientist at Stroud Water Research Center (Avondale, PA) — fluvial geomorphology, environmental restoration, stream ecosystems ecology, water resources and environmental management

Anne Jacquin, Ph.D., French Polytechnic National Institute of Toulouse (INPT), 2010, Researcher and Instructor at INPT-Ecole d'Ingénieurs de Purpan (Toulouse, France) — remote sensing, GIS, ecosystem and agrosystem processes

Kamlesh P. Lulla, Ph.D., Indiana State, 1983, Ph.D., Baroda (India), 1977, Chief Scientist for Earth and Imaging Sciences, NASA Johnson Space Center — environmental geography, land use/land cover, remote sensing, GIS

M. Duane Nellis, Ph.D., Oregon State University, 1980, President of Ohio University — remote sensing, land cover analysis, GIS

Francesco Orsi, Ph.D., Trento (Italy), 2010, Independent Scholar, Bologna, Italy — spatial modeling, land use and ecosystem services, protected area management, sustainable transportation

Ram Raghavan, Ph.D., Kansas State University, 2011, Assistant Professor (Diagnostic Medicine/Pathobiology) — remote sensing, GIS, spatial epidemiology

Charles W. Rice, Ph.D., University of Kentucky, 1983, University Distinguished Professor (Agronomy) — soil microbiology, climate change, soil quality

Matthew R. Sanderson, Ph.D., University of Utah, 2008, Associate Professor (Sociology) — globalization, development, migration

David R. Seamon, Ph.D., Clark, 1977, Professor (Architecture) — sense of place, urban social

EMERITI FACULTY:

Kevin Blake

Charles E. Bussing

Karen De Bres Cole

John A. Harrington, Jr.

David E. Kromm

Richard A. Marston

H.L. Seyler

William R. Siddall

PITTSBURG STATE UNIVERSITY

DEPARTMENT OF HISTORY, PHILOSOPHY, AND SOCIAL SCIENCES

DATE FOUNDED: 1903

DEGREES OFFERED: B.S. in Geography (with emphases in environmental geography and sustainability, urban development, and GIS); Certificate in Geographic Information Systems

MAJORS: 25 undergraduates

CHAIR: Dr. Barbara Bonnekeness

PROGRAM ADMINISTRATIVE ASSISTANT: Ms. Nancy Grantham

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of History, Philosophy, and Social Sciences, 1701 S Broadway St, Pittsburg, Kansas 66762. Telephone (620) 235-4325. Fax (620) 235-4338.

Internet: <https://academics.pittstate.edu/academic-programs/history-philosophy-and-social-sciences/index.html>

PROGRAMS AND RESEARCH FACILITIES: In addition to the standard undergraduate degree in Geography, the program offers 3 areas of emphasis: urban development, environmental geography and sustainability, and GIS. A certificate in GIS is also attainable. Undergraduate majors in Geography have the opportunity to join faculty in their research. Our students are also assisted by faculty to present their own research at the University's research colloquium, and at relevant conferences. Partial financial support is available. The Geography program also runs an internship program with public and private organizations in the region, giving our students real world experience. The dedicated GIS internship lab contains 15 computers, a large format printer, plotter, digitizer, and a 3D printer. There are multiple industry-grade GPS receivers and a drone that are used in both instruction and in internship-related projects. The Department has 2 rolling carts of 25 laptops each for classroom instruction and a computer lab with 20 computers.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Admission to the undergraduate major program in Geography is the same as that for admission to the College of Arts and Sciences. In addition to the University Core Curriculum, undergraduate majors take a minimum of 30 hours of Geography courses and other required offerings (depending on the emphasis). Undergraduate majors are eligible for earning credit through internal and external internship programs. Pitt State offers its students many opportunities for scholarships & financial assistance. The mission of the Office of Student Financial Assistance (OSFA) is to assist a diverse student population in obtaining financial aid to support their educational endeavors.

FACULTY:

Tim Bailey, PhD, University of Western Ontario, 1993, University Professor — urban development, planning, quantitative methods, pedagogy

Catherine Hooey, PhD, University of Western Ontario, 1993, Professor — environmental geography, sustainability, pedagogy

Michele Barnaby, MA, Kansas State University, 1996, Instructor — human geography, rural geography, historic preservation

UNIVERSITY OF KANSAS

DEPARTMENT OF GEOGRAPHY AND ATMOSPHERIC SCIENCE

DATE FOUNDED: 1947

GRADUATE PROGRAM FOUNDED: 1958

DEGREES OFFERED: B.A., B.S., B.G.S., M.A., M.S., Ph.D.

GRANTED 9/1/16-8/31/17: 16 Bachelors, 13 Masters, 5 Ph.D.

STUDENTS IN RESIDENCE: 94 Majors, 11 M.A., 17 M.S., 35 Ph.D.

NOT IN RESIDENCE: 3 Masters, 2 Ph.D.

CHAIR: David Mechem

DEPARTMENT ADMINISTRATIVE ASST: Beverly M. Koerner

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Graduate Studies Committee, Department of Geography and Atmospheric Science, University of Kansas, 1475 Jayhawk Blvd.,

Room 213, Lawrence, Kansas 66045-7613. Telephone (785) 864-5143. Fax (785) 864-5378. E-mail: kugeog@ku.edu. Internet: www.geog.ku.edu.

PROGRAMS AND RESEARCH FACILITIES: The department graduate program emphasizes environment studies, GIS-cartography-remote sensing, and cultural/regional geography. Each is well supported by faculty strength throughout the university and by appropriate laboratory and library facilities. The environment program is composed of physical geography (geomorphology, soils, Quaternary studies, and bio/geochemistry) and atmospheric sciences (meteorology, climatology, and paleoclimatology). The department has specialized research laboratories for soils, sedimentology, palynology, and rock magnetism.

The GIS-cartography-remote sensing program is a highly interconnected unit that builds on pioneering work in cartography and remote sensing begun at Kansas in the 1950s under George Jenks and David Simonett, respectively. The GIS program emphasizes spatial data management, dissemination, geovisualization, and spatial analysis and modeling. Current remote-sensing research includes a wide range of environmental and agricultural issues at scales from small watersheds to continents. Cartographers concentrate primarily on design, visualization, history of cartography, and novel display methods. The department houses its own cartographic and GIS service center. Geographers also are the major participants in the university's remote-sensing applications center.

The cultural/regional programs take advantage of Kansas's well-developed interdisciplinary language and area-studies centers for Africa, East Asia, Latin America, and Russia-East Europe. All four of these centers have been designated National Resource Centers by the U.S. Department of Education during the past decade. The university's American Studies program and its T.R. Smith map collection are similarly regarded as among the best in the nation. Specific strengths within the cultural realm include political economy, development studies, indigenous studies, social theory and historical, humanistic, political, and economic geography.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Admission to graduate standing requires superior academic performance at the undergraduate level and demonstrated competence in physical, human, and regional geography, and in geographic techniques. GRE scores and an application fee are required. The university follows the two-semester system with nine credit hours as the usual load. Thesis hours, directed readings, and some course work are also offered during an eight-week summer session.

The Geography M.A. and M.S. thesis program requirement is for thirty hours of graduate-level work, including the thesis. Two seminars and distribution requirements are designed to provide a core of training in human/regional, physical, and techniques. These are supplemented by courses in the student's area of interest.

The Atmospheric Science M.S. thesis program requirement is for thirty hours of graduate-level work, including the thesis. The breadth of the program and the diverse research topics explored by the faculty are able to accommodate students with a variety of interests.

A greater degree of specialization is expected for the Geography Ph.D. Sixty hours beyond the M.A. or M.S. are required, including twenty to thirty hours of work on the dissertation. There are various options to satisfy the foreign languages and/or other research skills requirement, including reading knowledge of one foreign language and proficiency in a research skill related to the candidate's area of specialization.

The Ph.D. degree in Atmospheric Science requires a minimum of sixty hours: thirty hours of coursework and thirty hours of

dissertation research. Students will acquire a research skill in mathematics, statistics or applied science.

Several sources of financial aid are available to graduate students. Teaching and research assistantships within the department, the Kansas Applied Remote Sensing Program, the Kansas and U.S. Geological Surveys, and the Area Studies Centers are the primary sources of aid; limited funds are also available for the summer period. Other sources of support include Graduate School Honors Fellowships, Dissertation Fellowships, work study, student loans, and the several categories of grants from the Office of Education, the National Science Foundation, and similar organizations.

FACULTY:

- David A. Braaten, Ph.D., UC-Davis, 1988, Professor* — atmospheric science, climate change, remote sensing
- Andrea E. Brookfield, Ph.D., Waterloo, 2009, Assistant Professor* — hydrological modeling to simulate flow and contaminant transport
- J. Christopher Brown, Ph.D., UCLA, 1999, Professor* — political ecology, tropical environments, Latin America
- Nathaniel A. Brunsell, Ph.D., Utah State, 2003, Professor* — land-atmosphere interactions, remote sensing, micrometeorology
- So-Min Cheong, Ph.D., Washington, 2001, Associate Professor* — economic, sustainable resources, East Asia
- Abel Chikanda, Ph.D., Western University, 2010, Assistant Professor* — migration and development, food security and informal economy, Africa
- Alexander C. Diener, Ph.D., Wisconsin, 2003, Associate Professor* — political, social, cultural, Central Eurasia
- Stephen L. Egbert, Ph.D., Kansas, 1994, Professor* — remote sensing, geographic information science
- Peter H. Herlihy, Ph.D., Louisiana State, 1986, Professor* — cultural, historical, Latin America
- Jay T. Johnson, Ph.D., University of Hawaii at Manoa, 2003, Professor* — cultural geography, comparative Indigenous Nations studies, post-colonialism
- Ting Lei, Ph.D., UC-Santa Barbara, 2010, Assistant Professor* — GIS, remote sensing, and transportation
- Xingong Li, Ph.D., South Carolina, 2000, Professor* — geographic information science, spatial analysis, GIS and remote sensing of hydrologic processes
- David B. Mechem, Ph.D., Washington, 2003, Professor* — cloud microphysics and dynamics, mesoscale processes, numerical modeling, boundary layer clouds
- Shannon O'Lear, Ph.D., Syracuse, 1997, Professor* — cultural, political, Russia, the Caucasus and Central Asia, environmental policy
- Bing Pu, Ph.D., Cornell, 2011, Assistant Professor* — climatological modeling and observational analysis of drought, dust interactions and low level jet dynamics
- David A. Rahn, Ph.D., Wyoming, 2008, Associate Professor* — atmospheric science, mesoscale and synoptic meteorology
- Di Shi, Ph.D., Florida State, 2016, Lecturer and Director of Cartographic Services* — remote sensing, land cover mapping, cartography
- Justin P. Stachnik, Ph.D., Texas A&M, 2013, Assistant Professor* — tropical meteorology, mesoscale precipitating systems, radar and satellite meteorology, cloud physics and dynamics
- Pamela L. Sullivan, Ph.D., Florida International University, 2011, Assistant Professor* — ecohydrology, hydrogeology, aqueous geochemistry
- Cornelius J. van der Veen, Ph.D., University of Utrecht (Netherlands), 1986, Professor* — glaciology, ice-climate interactions, global change
- Barney Warf, Ph.D., University of Washington, 1985, Professor* — economic geography, social theory, urban geography

AFFILIATED FACULTY:

- Joseph Brewer, Ph.D., Arizona, 2008, Courtesy Assistant Professor* — natural resources management for American Indians & Alaskan Natives, Indian land tenure
- Kelly Kindscher, Ph.D., Kansas, 1991, Courtesy Professor* — plant community ecology research
- Rolfe D. Mandel, Ph.D., Kansas, 1990, Courtesy Professor* — soils, geoarchaeology, Quaternary sediments
- Valery J. Terwilliger, Ph.D., California, 1988, Adjunct Associate Professor* — biogeography, geomorphology, geotechnical engineering

EMERITI FACULTY:

- Leslie Dienes, Ph.D., Chicago, 1968*
- William C. Johnson, Ph.D., Wisconsin, 1976*
- George F. McCleary, Jr., Ph.D., Wisconsin, 1969*
- Robert W. McColl, Ph.D., Washington, 1964*
- James R. Shortridge, Ph.D., Kansas, 1972*
- Curtis J. Sorenson, Ph.D., Wisconsin, 1973*
- Donna F. Tucker, Ph.D., Colorado State, 1987*

KENTUCKY

UNIVERSITY OF KENTUCKY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1944

GRADUATE PROGRAM FOUNDED: 1946

DEGREES OFFERED: B.A., B.S., M.A., Ph.D.

STUDENTS IN RESIDENCE: 32 B.A./B.S. 7 M.A., 19 Ph.D.

NOT IN RESIDENCE: 1 M.A, 17 Ph.D.

CHAIR: Patricia Ehrkamp (p.ehrkamp@uky.edu)

ADMINISTRATIVE ASSISTANT: Lori Tyndall
(Geography@uky.edu)

DIRECTOR OF GRADUATE STUDIES: Matthew Zook
(zook@uky.edu)

DIRECTOR OF UNDERGRADUATE STUDIES: Alice Turkington (alicet@uky.edu)

CONTACT INFORMATION: 817 Patterson Office Tower, University of Kentucky, Lexington, KY 40506-0027. Telephone: (859) 257-2931; Fax: (859) 257-6277. For more detailed information: <https://geography.as.uky.edu/>.

The Department is known for high quality research and graduate education in human geography, physical geography, and critical GIS/GIScience. Program strengths include close faculty-student interaction, flexibility in designing an appropriate plan of study, and research training seminars. Emphasis at both the MA and PhD levels is placed on theoretical and methodological training, which is closely integrated with students attaining both breadth and depth in substantive domains. Graduate student research is empirically rich, with data usually acquired through fieldwork. The faculty is committed to assisting students in obtaining external research funding and in disseminating research findings through professional journals and conferences. We also offer professional development seminars. Graduate students gain valuable experience as instructors, and they participate actively in departmental service and governance through various committees.

Faculty and student research focuses on interrelated thematic clusters. Research seminars are organized around topics relevant to these clusters, with thematic content varying with current graduate student

and faculty interests. Faculty has regional expertise in a variety of domestic and international settings. Students have access to faculty with a variety of methodological expertise. The University supports excellent computational facilities; the department houses computing, GIS, and mapping activities in the Gyula Pauer Center for Cartography & GIS. The WT Young library houses over 2.6 million volumes and supports on-line, full-text journal access. Strong linkages are maintained with interdisciplinary research centers on campus.

ACADEMIC PLAN, ADMISSION, FINANCIAL AID:

UNDERGRADUATE: Semester system. First year admission is based on probable success as indicated from high school grades and ACT results.

GRADUATE: Admission is based on a combination of: undergraduate and graduate grade point averages; scores on the GRE; a written statement of research interests and professional goals; three letters of recommendation. No single criterion is dominant, but the combination must demonstrate the applicant's potential for success in graduate study. Inquiries should be directed to the Director of Graduate Studies. Information on the formal application process is available at our web site.

The department offers graduate teaching assistantships, which carry a stipend (\$14,848 for the year 2018-19), plus full tuition remission and health coverage. Fellowship support is also available, at the departmental level and through intra-university competitions. Please visit our website at <https://geography.as.uky.edu/> for full details and descriptions of the department, its faculty, graduate students, research clusters, and related information.

FACULTY:

Betsy Beymer-Farris, Ph.D. University of Illinois at Urbana-Champaign, 2011, Assistant Professor and Director of the Environmental and Sustainability Studies Program — Political ecology, gender, climate change, marine and coastal resource use and management, East Africa

Stanley D. Brunn, Ph.D. The Ohio State University, 1966, Professor Emeritus — Social and political geography, information and communication, North America, Europe, and Central Asia

Patricia Ehrkamp, Ph.D. University of Minnesota, 2002, Professor and Chair — Political, urban, feminist geography, immigration, citizenship, feminist geopolitics, critical refugee studies

Jen Jack Giesekeing, Ph.D. Graduate Center of the City University of New York, 2013, Assistant Professor — Cultural geography, geographies of gender and sexuality, digital studies, urban geography, feminist and queer theory

P.P. Karan, Ph.D. Indiana, 1956, Professor Emeritus — Development, multinational corporations, society-environment relationships, Asia/Pacific, Japan, South Asia

Nick Lally, Ph.D. University of Wisconsin-Madison, expected 2018, Assistant Professor — Critical mapping, algorithms, digital geographies

Liang Liang, Ph.D. University of Wisconsin-Milwaukee, 2009, Associate Professor — Bioclimatology, landscape phenology, remote sensing, and spatial ecology

Priscilla McCutcheon, Ph.D. University of Georgia, 2011, Assistant Professor — Social geography, Black geographies, food and sustainable agriculture, U.S. South

Tad Mutersbaugh, Ph.D. University of California-Berkeley, 1994, Professor — Political ecology, gender & development, agrarian studies, certified commodities, Mexico and Latin America

Jonathan Phillips, Ph.D. Rutgers, 1985, Professor — Geomorphology, pedology, earth surface systems

Lynn Roche-Phillips, Ph.D. University of Louisville, 2013, Assistant Professor — Applied geography, urban planning, growth management, and thoroughbred industry

Karl Raitz, Ph.D. Minnesota, 1970, Professor Emeritus — American landscapes, historical geography, U.S., Appalachia, visual methods

Susan Roberts, Ph.D. Syracuse, 1992, Professor — Global political economy, financial capital, development, feminist theories

Michael Samers, D. Phil Oxford University, 1997, Professor — Economic and urban geography, immigration, alternative forms of economic development, international finance, France, European Union, US

Theodore R. Schatzki, Ph.D. University of California, Berkeley (philosophy), 1986, Professor — Social Ontology, Theories of Human Activity, Philosophy of Social Science, 20th-century Continental Thought

Richard Schein, Ph.D. Syracuse, 1989, Professor and Associate Dean — Cultural landscapes, urban geography, U.S. historical geography

Anna Secor, Ph.D. University of Colorado, 2000, Professor and Hajja Razia Sharif Sheikh Islamic Studies Professor — Political, cultural, Islamic world, social theory, feminist geographies

Nari Senanayake, Ph.D. Penn State University, expected 2018 — Critical health geographies, political ecology, South Asia

Gary Shannon, Ph.D. Michigan, 1970, Professor — Medical Geography: disease ecology, health services delivery, telemedicine, global dynamics of health and disease

Tony Stallins, Ph.D. University of Georgia, 2000, Associate Professor — Biogeography, complexity, climate change, political ecology, science and technology studies

Alice Turkington, Ph.D. Queens University-Belfast, 1999, Associate Professor and Director of Undergraduate Studies — Geomorphology, weathering, urban environments, applied geomorphology

Andrew Wood, Ph.D. Ohio State, 1993, Associate Professor — Economic geography, urban studies, politics of local economic development

Matthew W. Wilson, Ph.D. University of Washington, 2009, Associate Professor — Critical GIS, urban political geography, science and technology studies

Matthew Zook, Ph.D. University of California, Berkeley, 2001, Professor and Director of Graduate Studies — Information and economic geographies, urban technologies, critical GIS

GYULA PAUER CENTER FOR CARTOGRAPHY AND GIS:

Jeff Levy, M.P.H. Kentucky, 2018, GIS Program Coordinator — GIS and applications in public health, planning, transportation, and historical research

AFFILIATED AND ADJUNCT FACULTY:

William Andrews, Ph.D. Kentucky, 2004, Kentucky Geological Survey — Geomorphology, Quaternary mapping, physiography, fluvial erosion

Oliver Fröhling, MA, University of Nebraska-Lincoln, 1993, Director, Centro de Encuentros y Diálogos Interculturales (CEDI), Oaxaca, Mexico — Development and anti-development, NGOs, regional autonomy movements in Mexico

Daniel Marion Ph.D. University of Iowa, 2001, U.S. Forest Service — Hydrology, stream channel morphology, forest ecosystems, and soils

Graham D. Rowles Ph.D. Clark 1976, Professor and Director, Graduate Center for Gerontology — Aging and the elderly, social, rural, qualitative research methods

John F. Watkins Ph.D. Colorado, 1986, Associate Professor — Population, aging and the elderly, migration, Appalachia

UNIVERSITY OF LOUISVILLE

DEPARTMENT OF GEOGRAPHY AND GEOSCIENCES

DATE FOUNDED: 1972

DEGREES OFFERED: B.S. in Applied Geography; M.S. in
Applied Geography

GRANTED 7/1/17-6/30/18: 32 Bachelors; 5 Masters

MAJORS: 137

CHAIR: David A. Howarth

DEPARTMENT BUSINESS MANAGER: Sharon M.
O'Bryan

CONTACT INFORMATION: Department of Geography and
Geosciences, University of Louisville, 206 Lutz Hall, Belknap
Campus, Louisville, Kentucky 40292. Telephone (502) 852-6844. Fax
(502) 852-4560. Internet: www.louisville.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES: The Department
offers B.S. and M.S. degrees in Applied Geography. B.S. students
choose one of four tracks: Urban Analysis, Environmental Analysis,
Geospatial Technologies, and Human and Cultural Dynamics. The
B.S. degree has a common core consisting of Global Environment,
Power of Place, Globalization and Diversity, Introduction to Mapping
and Geospatial Technologies, Sustainable Human Environments,
Quantitative Analysis, Research Methods, and Senior Thesis.
Advanced specialization courses include Climatology,
Geomorphology, Geopolitics, Qualitative Methods, Hydrology,
Medical Geography, Remote Sensing, GIS, Programming for GIS and
Spatial Data Analysis, Transportation, Locational Analysis, GIS and
urban demographic analysis. Majors have found employment in
nearby private or public agencies, or are pursuing graduate studies.

The M.S. curriculum is a two-year program of study for full-time
students. Foundation courses for the degree include History of
Geography, Advanced Spatial Statistics, Approaches and Methods in
Applied Geography, Qualitative Analysis, and Proposal Development.
Thesis and non-thesis options are available.

The department enjoys a good relationship with local government and
has an active internship program with several agencies. The
department houses the University's Center for Geographic Information
Sciences.

**ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND
FINANCIAL AID:** Semester system. Application for admission to
Admissions Office at the University.

FACULTY:

C. Andrew Day, Ph.D., Texas State, Associate Professor — climate
change, land cover change, hydrology/water resources,
sustainability of physical systems

Andrea Gaughan, Ph.D., Florida, Associate Professor — spatial and
temporal complexity of coupled human-environment systems,
land-use/land-cover change dynamics, climate
variability/change, remote sensing and GIS, modeling and
spatial statistics

Jafar Hadizadeh, Ph.D., Imperial College, Great Britain, Professor —
structural geology and rock mechanics

David A. Howarth, Ph.D., Ohio State, Professor — climatology, short
term climate variability, meteorology, urban climatology,
geography education

Carrie Mott, Ph.D., University of Kentucky, Assistant Professor —
race, settler colonialism, reclamation, justice, borderlands,
pedagogy, micropolitics, political geography, feminist
geography, historical geography; the US West

Keith R. Mountain, Ph.D., Ohio State, Associate Professor —
glaciology, radiation and boundary layer climatology, geography
education

Jason Naylor, Ph.D., North Dakota, Assistant Professor —
meteorology, severe weather, tornadoes, numerical weather
prediction, storm-scale modeling

Wei Song, Ph.D., Ohio State, Professor — transportation and location
analysis, urban and regional studies, GIS applications,
quantitative methods; China

Forrest R. Stevens, Ph.D., University of Florida, Assistant Professor
— integrated modeling and quantitative spatial analyses, land
systems science, remote sensing, rural lands and livelihoods

Margath A. Walker, Ph.D., Kentucky, Associate Professor — urban
geography, social theory, qualitative research methodology,
border security; Latin America

Haifeng (Charlie) Zhang, Ph.D., South Carolina, Associate Professor
— crime mapping, health geography, GIS, spatial analysis
methods; China

ASSOCIATE AND EMERITI FACULTY:

John L. Anderson, Ph.D., Kentucky, 1974, Assistant Professor

Don E. Bierman, Ph.D., Michigan State, 1970, Professor Emeritus

Terra A. Clarke, Ph.D., UC, Riverside, 1977, Professor Emerita

K. Lal Gauri, Ph.D., Bonn, 1964, Professor Emeritus

George A. Lager, Ph.D., British Columbia, 1975, Professor Emeritus

Clara A. Leuthart, Ph.D., Louisville, 1975, Professor Emerita

Dennis L. Spetz, Ed.D., Indiana, 1971, Professor Emeritus

WESTERN KENTUCKY UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND GEOLOGY

DATE FOUNDED: 1907

GRADUATE PROGRAM FOUNDED: 1967

DEGREES OFFERED: B.S. (Geography and Environmental
Studies, Meteorology, GIS, Geology), B.A. Earth
Science, M.S. Geoscience, M.A.E. Education/Geography
Major

GRANTED 9/1/16-8/31/17: 31 Bachelors, 9 Masters

STUDENTS IN RESIDENCE: 156 Majors, 27 Masters

NOT IN RESIDENCE: 2 Masters

CHAIR: Fred Siewers

DEPARTMENT OFFICE COORDINATOR: Wendy
DeCroix

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. Fred Siewers, Department of Geography and Geology,
Western Kentucky University, 1906 College Heights Blvd. #31066,
Bowling Green, Kentucky 42101-1066. Telephone (270) 745-4555.
Fax (270) 745-6410. E-mail: fred.siewers@wku.edu. Internet:
www.wku.edu/geoweb/.

PROGRAMS AND RESEARCH FACILITIES: Five specialty
areas are emphasized in the graduate and undergraduate programs:
GIS (GIS, transportation, spatial statistics, remote sensing);
Geoscience (Hydrogeology, geology, geochemistry, cave and karst
systems, hydrology, paleoclimate reconstruction); *Meteorology and
Climatology* (Applied meteorology, climatology, climate change,
prediction); *Culture and Society* (Material culture, historical
geography, American South, Latin America, tourism, regional
development, food and resources); and *Environment and Sustainable
Development* (Karst studies, natural resource management,
environmental education, sustainability, and water resources). The
Department's research centers include: the Kentucky Climate Center;
Kentucky Mesonet; White Squirrel Weather; Center for Cave and
Karst Studies; Human-Geo-Environmental Change; Crawford

Hydrology Lab; Applied Materials Institute; and the Reynolds Geophysical Laboratory. Additional research facilities include the CHAOS weather forecasting laboratory; GIS laboratory, Cultural Geography research lab, water resources laboratory, eye-tracking lab, computer labs, and cutting-edge geoscience field equipment.

UNDERGRADUATE: Professional B.S. programs in Geography and Environmental Studies, Meteorology, GIS, and Geology/Earth Science are offered. The Department also offers a 14-hour Certificate program in GIS, and minors in general geography, water resources, geology, sustainability, environmental science, and Latin American studies. Emphasis in all degree programs is placed on analysis of problems that have an applied aspect and consequently have policy development implications, with programs tailored to the student's interests. Internship and research opportunities are available to all interested students. Multiple study abroad opportunities are also available for both undergraduate and graduate students. The combination of the geography, meteorology, GIS, and geology disciplines provides an opportunity to emphasize human-environmental interactions, as well as culture and society and physical and environmental studies independently. Students take foundational and technique courses, and then customize their degree program electives to suit their interests and future goals. The Department offers a 5-year Joint UG and Graduate program (JUMP) for highly qualified and motivated students.

GRADUATE: The M.S. Degree in Geoscience prepares students for myriad careers and provides a solid empirical and theoretical foundation for those who choose to pursue the Ph.D. It requires a minimum of thirty semester hours of coursework, a thesis, and a demonstrated proficiency in a research technique. Program graduates serve in a variety of discipline-related positions in the U.S. and throughout the world. Faculty members participate in research addressing the applied aspects of climate and weather dynamics, cave and karst resources and tourism, water issues, cultural landscape studies, regional economic development, geographies of social justice and equality, environmental management and education, and historic preservation. In addition, field research is conducted by WKU faculty and students in the U.S. with a focus on Kentucky and the Southeast, and globally, in China, Europe, and Latin America.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: *Admission Requirements:* An undergraduate degree with G.P.A. of 3.2 or higher (on a 4.0 scale), and an appropriate GRE score (at least 3.5 writing and analytical assessment). A GAP score (GRE times GPA) of at least 150 is required for admission to the Geoscience program. Semester system. *Financial Aid:* A number of teaching and research assistantships are available with tuition plus stipend ranging between \$15,000 and \$20,000 for the academic year. Out-of-state tuition scholarships and partial tuition waivers are available for qualified students.

FACULTY:

Katie Algeo, Ph.D. LSU, 1998, Professor — Appalachia, GIS, research methods, agricultural geography, historical geography
William Blackburn, M.S., Western Kentucky, 2003, Instructor II — Environment, Kentucky
Jill Brown, M.S. Western Kentucky, 2002, Assistant Professor — Human and physical geography
Kevin Cary, M.S., GISP, Bowling Green State, 2000, Instructor II, GIS Center Director — GIS, spatial techniques
Margaret Crowder, Ed.D. WKU, 2012, Instructor II — General geology, geohazards, education
Scott Dobler, M.A. GISP, Bowling Green State, 1990, Instructor II — GIS, teacher education, climatology
Joshua Durkee, Ph.D., Georgia, 2008, Associate Professor — Meteorology, climatology, severe storm events
Xingang Fan, Ph.D., Lanzhou, China, 1996, Associate Professor — Atmospheric modeling, meteorology

Stuart A. Foster, Ph.D., Ohio State, 1988, Professor. State Climatologist, Mesonet Director — location analysis, GIS, quantitative methods
Nahid Gani, Ph.D. Texas at Dallas, 2006, Associate Professor — Tectonics, thermochronology, structural geology, remote sensing
Royhan Gani, Ph.D. Texas at Dallas, 2005, Associate Professor — Sedimentology, stratigraphy, earth science, petroleum geology
Gregory Goodrich, Ph.D., Arizona State, 2005, Associate Professor — Synoptic climatology, remote sensing
Margaret M. Gripshover, Ph.D., Tennessee, Knoxville, 1995, Professor — Cultural, historical, US South, sports and equine geography
Christopher Groves, Ph.D., Virginia, 1992, Distinguished Professor of Hydrogeology — Geomorphology, hydrology, caves and karst
Pat Kambesis, Ph.D., Mississippi State, 2014, Instructor — Caves and karst, GIS
David J. Keeling, Ph.D., Oregon, 1992, Distinguished Professor of Geography — Latin America, world cities, transportation, Writing
Michael T. May, Ph.D., Indiana, 1992, Professor — Environmental geology, aqueous geochemistry
Amy T. Nemon, M.S., Western Kentucky, 2007, Instructor II — Regional, Cultural, Sustainability
Leslie North, Ph.D., South Florida, 2011, Associate Professor — Environmental education, water resources, sustainability, caves and karst, eye-tracking
Jason Polk, Ph.D., South Florida, 2009, Associate Professor — Paleoclimate, water resources, geomorphology, caves and karst, isotope geochemistry.
Fredrick D. Siewers, Ph.D., Illinois, 1995, Associate Professor, Department Chair — Sedimentology, stratigraphy, paleontology
Andrew Wulff, Ph.D., Massachusetts, 1999, Associate Professor — Structural geology, mineralogy, geochemistry
Jun Yan, Ph.D., Buffalo, 2004, Professor — GIS, transportation, planning, modeling

ACTIVE EMERITUS FACULTY:

Doral Glen Conner, M.A., Western Kentucky, 1976
Nicholas Crawford, Ph.D. Clark, 1977
L. Michael Trapasso, Ph.D. Indiana State, 1980

LOUISIANA

LOUISIANA STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND ANTHROPOLOGY

DATE FOUNDED: 1928

GRADUATE PROGRAM FOUNDED: 1933

DEGREES OFFERED: BA, BS and MS in Geography, and PhD with a concentration in Geography or Anthropology
GRANTED 7/1/16 – 6/30/17: 10 Bachelors, 6 Masters, 10 PhD (Geography and Anthropology)

STUDENTS IN RESIDENCE: 49 Majors, 22 Masters, 44 PhD (Geography and Anthropology)

CHAIR: Fahui Wang

ASSISTANT TO THE CHAIR: Linda Strain

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Graduate Director (E-mail: gradsec@lsu.edu), Department of Geography and Anthropology, Louisiana State University, Baton Rouge, Louisiana 70803. Telephone (225) 578-5942. Fax (225) 578-4420. E-mail: gachair@lsu.edu. Internet: www.ga.lsu.edu.

PROGRAMS AND RESEARCH FACILITIES: Anthropology at LSU centers on prehistoric archaeology, human evolution and variation, social and cultural analysis of public culture and public space, folklore and expressive culture, indigenous languages, social movements, environmental change, and science studies. Geography at LSU explores the environmental and spatial relations of nature and culture through field, archival, qualitative, and quantitative research. The bi-disciplinary department of geography and anthropology offers six degree programs. Bachelor's programs provide the full range of anthropological and geographical instruction appropriate to a liberal education; master's programs accent breadth of professional geographical and anthropological training; the doctoral program has a concentration in geography (specialized research and scholarship in physical geography, human geography, mapping sciences) and a concentration in anthropology (archaeology, biological, cultural and linguistic).

Inquiry focuses on: *Physical Geography* - synoptic climatology, hydroclimatology, paleoclimatology, hydrology, and fluvial and coastal geomorphology and resources; *Human Geography* - cultural, cultural ecology, historical, settlement, and environmental, transportation, crime, health, urban; *Geographic Information Science (GIS)* - computer cartography, aerial photography, remote sensing, spatial analysis, and geographic information systems. Latin America is our most studied region. Current faculty and graduate students also conduct field research in, North America, Central and East Asia, Africa and Europe.

Resources and facilities at LSU are ample and varied. LSU's Middleton Library with over 2.5 million volumes, 3.4 million microforms, and more than 7 million manuscripts is especially strong in geography and anthropology (<http://www.lib.lsu.edu/>). The department's Cartographic Information Center (CIC), one of the nation's largest academic map libraries, houses more than 500,000 maps and aerial photographs (<http://www.cic.lsu.edu/>). In addition to the CIC, the Department's GIS concentration is supported by two GIS laboratories. Facilities for research include laboratories for historical, cultural and linguistic analysis, geomorphology, material culture, paleoclimatology, archaeology, 3D Digital Imaging Lab, the FACES Lab, the Louisiana Office of State Climatology, and the Southern Regional Climate Center.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Selection is based on compatibility of interests with departmental programs; on grades, letters of recommendation, and Graduate Record Examination scores. For regular admission, the LSU Graduate School requires an undergraduate grade point average of at least 3.0 and the department requires 1000 GRE. To be competitive for financial aid an applicant should exceed these minimum requirements.

Graduate Assistantships start at \$12,750 – Master's and \$15,050 – PhD for nine months. Pruitt assistantships start higher. Regents (\$12,000-\$20,000) and Perkins Diversity Fellowships (\$18,000) are available to outstanding PhD applicants. Grants for fieldwork (\$200 - \$1,500) are available each year through the Robert C. West Field Research, R.J. Russell and Materials awards (<http://www.ga.lsu.edu/>).

FULL-TIME FACULTY:

John M. Anderson, MLIS, Louisiana State, 1995, Associate Librarian, Director of the Cartographic Information Center — historical maps, U.S. Geological Survey, U.S. Coast and Geodetic Survey, Louisiana, battlefields
Alan W. Black, PhD, Georgia, 2015, Assistant Professor-Research — climatology, climatic change, atmospheric hazards, extreme events
Mary Jill Brody, PhD, Washington, 1982, Doris Z. Stone Professor — linguistics, discourse analysis, anthropology, Mayan languages
Juliet K. Brophy, PhD, Texas A&M, 2011, Assistant Professor — hominin evolution, craniodental morphometric analyses,

paleoenvironmental reconstruction, elliptical fourier analysis, taphonomy, southern Africa
David Chicoine, PhD, U. of East Anglia, 2007, Associate Professor and Graduate Director — archaeological anthropology; complex societies; Central Andes; coastal Peru; early urbanism; material culture; foodways; architecture; visual arts, funerary practices
Craig E. Colten, PhD, Syracuse, 1984, Carl O. Sauer Professor — historical, environmental, American South
Kristine L. DeLong, PhD, Univ. of South Florida, 2008, Associate Professor — paleoclimate, tropical climate variability, time series analysis, Gulf of Mexico/Caribbean and southwest Pacific
Alex Haberlie, PhD, Northern Illinois University, 2018, Assistant Professor — climate change, atmospheric hazards, machine learning, digital image processing, model evaluation
Joyce M. Jackson, PhD, Indiana, 1988, Professor — ethnomusicology, folklore, performance centered studies and ritual, Louisiana, Africa & the Diaspora
Barry Keim, PhD, Louisiana State, 1994, Richard J. Russell Professor and Louisiana State Climatologist — climatic change, extreme events, hydroclimatology, climate data
Kory Konsoer, PhD, University of Illinois, Urbana-Champaign, 2014, Assistant Professor, LSU Coastal Studies Institute (CSI) Fellow — fluvial geomorphology, sediment transport, river hydraulics, watershed hydrology
Michael Leitner, PhD, SUNY-Buffalo, 1997, Professor — spatial analysis and GIS, computer cartography, Europe
Ginesse A. Listi, PhD, Tulane, 2008, Assistant Professor-Research, Director FACES Lab — physical and forensic anthropology
Brian Marks, PhD, University of Arizona, 2010, Assistant Professor — Political geography, economic geography, fisheries and aquaculture, Southeast Asia, US Gulf Coast
Kent Mathewson, PhD, Wisconsin, 1987, Fred B. Kniffen Professor — cultural, historical, cultural ecology, history of geography, Latin America, American South
Heather McKillop, PhD, California-Santa Barbara, 1987, Thomas and Lillian Landrum Alumni Professor — coastal and underwater archaeology, Maya, Belize, 3D Digital Imaging and 3D Printing
Shelley Xuelian Meng, PhD, Texas State Univ, San Marcos, 2010, Assistant Professor, LSU Coastal Studies Institute (CSI) Fellow — Topographic mapping and costal morphology, LiDAR and UAV, land dynamics analysis, image processing and feature extraction
Steven Namikas, PhD, Southern California, 1999, Associate Professor — coastal and aeolian geomorphology, sediment transport, environmental monitoring and modeling
Micha Rahder, PhD, UC Santa Cruz, 2014, Assistant Professor — science and technology studies, environmental anthropology, tropical forest conservation, political ecology, more-than-human worlds
Helen A. Regis, PhD, Tulane, 1997, Associate Professor — cities, public space, tourism, cultural heritage, race, ethnographic methods, collaborative anthropology, North America, African Diaspora
Kevin Robbins, PhD, North Carolina State, 1987, Associate Professor, Director of the Southern Regional Climate Center — agricultural climatology
David Sathiaraj, PhD, Louisiana State, 2013, Assistant Professor-Research/Associate Director SRCC — big data analytics for geosciences, spatiotemporal data mining, climate informatics, data science and engr.
Rebecca Saunders, PhD, Florida, 1992, William G. Haag Professor of Archaeology and Associate Professor and Associate Curator of Anthropology, Museum of Natural Science — contact period studies, southeastern U.S. prehistory, costal adaptations, and pottery analysis
Andrew Sluyter, PhD, Texas, 1995, Professor — historical, cultural and political ecology; place, landscape, ethnicity and social theory; Latin America, the Caribbean and Louisiana

Robert Tague, PhD, Kent State, 1986, Earlene Nolan Sanders Alumni Professor — physical anthropology, paleodemography, osteology, and reproductive biology

Jill Trepanier, PhD, Florida State U 2012, Associate Professor — Statistical climatology, tropical cyclones, extreme climate events, societal risk

Lei Wang, PhD, Texas A&M, 2006, Associate Professor — GIS, quantitative methods, terrain and hydrological analysis, remote sensing

Fahui Wang, PhD, Ohio State, 1995, James J. Parsons Professor and Department Chair — urban, economic, and transportation geography, public policy (health, crime) and planning, GIS, quantitative methods

Teresa Wilson, PhD, Arkansas, 2014, Assistant Professor-Research — FACES Lab, forensic anthropology and bioarchaeology

ADJUNCT FACULTY:

DeWitt Braud Jr., Director, Academic Area, Coastal Studies Institute

Kerry R. Chance, PhD, U of Chicago, 2011, Assistant Professor — cultural, political, legal & Africanist anthropology

Linda Scott Cummings, PhD, Colorado, 1989, Director of Paleo Research Institute

Dydia DeLyser, PhD, Syracuse, 1998, Associate Professor — landscape and social memory, cultural, historical, urban, gender, qualitative methods and academic and professional writing

Brooks Ellwood, PhD, Rhode Island, 1977, Professor of Geology & Geophysics — geophysics, stratigraphy, geoarchaeology, magnetic/geophysical/geoarchaeological studies in Europe, Africa, Asia and North America

Elizabeth Graham, PhD, Cambridge, 1938

Diana M. Greenlee, PhD, Washington, 2002, Assistant Professor — Poverty Point Station Archaeologist

Charles McGimsey, PhD, S Illinois U Carbondale, 1995, State Archaeologist — Southeastern archaeology

Mark A. Rees, PhD, Oklahoma, 2001, Professor — archaeology

Charles Wayne Smith, PhD, Texas A&M, 1995, Associate Professor — historical archaeology, artifact conservation, visual anthropology, digital imaging

EMERITI FACULTY:

Jay D. Edwards, PhD, Tulane, 1970, Professor Emeritus — cultural anthropology, folklore, vernacular architecture, Caribbean and Louisiana

Patrick Hesp, PhD, Sydney, Australia, 1982, Professor Emeritus — coastal geomorphology, coastal and desert dune morphodynamics, coastal zone management

Anthony J. Lewis, PhD, Kansas, 1971, Professor Emeritus — remote sensing, physical, geomorphology, air photo

Richard H. Kesel, PhD, Maryland, 1971, Professor Emeritus — geomorphology, soils, biogeography

Robert A. Muller, PhD, Syracuse, 1962, Former Director, Southern Regional Climate Center — climatology, hydrology, synoptic meteorology, North America

AFFILIATED FACULTY AND STAFF:

Maria Allaire, MA, Louisiana State, 2002, Research Associate — FACES Lab, Louisiana Repository for Missing Persons and Unidentified Remains

Kyle Brehe, MS, S. Dakota School of Mines, 2007, Research Associate and Services Climatologist — climatology

Luke Driskell, MS, Louisiana State 2010, Computer Analyst

Larry Livaudais, MFA, University of Florida 1996, Imaging Specialist/Research Associate — FACES Lab, facial reconstruction

Emily F. Wieggers, MA, LSU, 2017, Laboratory Assistant / Research Associate — FACES Lab

MAINE

UNIVERSITY OF SOUTHERN MAINE

GEOGRAPHY-ANTHROPOLOGY PROGRAM

DATE FOUNDED: 1971

DEGREES OFFERED: B.A.

GRANTED 9/1/16-8/31/17: 11 Bachelors

MAJORS: 48

CHAIR: Lydia Savage

DEPARTMENT ADMINISTRATIVE ASST: Peter S.

Witham

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: University of Southern Maine, 300 Bailey Hall, 37 College Ave., Gorham, Maine 04038. Telephone (207) 780-5321. Fax (207) 780-5167; (Muskie School of Public Service) (207) 780-4847. Internet: www.usm.maine.edu/gany, <http://usm.maine.edu/gis/>

PROGRAMS AND RESEARCH FACILITIES: The Geography-Anthropology program is part of the Muskie School of Public Service, is affiliated with the Osher Map Library and Smith Center for Cartographic Education, and is the home of USM-GIS. It offers a 36-39 credit hour interdisciplinary undergraduate degree in which students combine both disciplines to study human-environment interrelationships. Students are encouraged to complete an internship or to complete a field school as part of their course of study. They may concentrate in one of three tracks: Sustainable Cultures; Communities; Cultural; Natural Heritage Management, or; Applied GIS and Geospatial Analysis. Geography-Anthropology Teacher Education tracks for both elementary and secondary education are available. Minors are available in anthropology, archaeology, geography, planning and GIS. Students can also earn a 12-14 credit Certificate in Applied GIS. Students can also opt to apply for an accelerated admissions Master's degree in Planning Policy and Management.

The Bachelor of Arts in geography-anthropology emphasizes the integration of the two disciplines and the common interests in examining the relationship between human populations and their natural and built environments. The major is an interdisciplinary degree program. Students enrolled in the major may specialize in any one of three tracks in: (1) Sustainable Cultures and Communities; (2) Cultural and Natural Heritage Management; or (3) Applied Geographic Information Systems (GIS) and Geospatial Analysis. The undergraduate BA in Geography-Anthropology (GYA) and graduate Master's in Policy, Planning, and Management (MPPM) programs in the Muskie School of Public Service offer an accelerated undergraduate-graduate degree pathway for prospective students. The close disciplinary connections between these programs and their focus on the relationship between human populations and their natural and built environment, sustainability, community development, policy and planning allow for a unique undergraduate-graduate educational opportunity.

The major thrust of the program's work at all levels, from teaching to research, is in developing and applying disciplinary skills to real world problem-solving. Six dedicated Geography, GIS and Archaeology laboratories and an array of field equipment support this effort.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: The undergraduate academic semester of 12 to 15 hours for full-time status is the current organizational system.

Admission requirements are two-track with high school diplomas and adequate SAT scores for traditional students and open admissions with remedial help available for others. Financial aid is available for those who qualify.

FACULTY:

- Matthew Bampton, Ph.D., Clark, 1992, Professor* — GIS, human-environment interaction, geomorphology
- Marcia-Anne Dobres, Ph.D., University of California at Berkley, 1995, Lecturer* — Gender, race, agency, technology, Ice Age art, museums, anthropology of indigenous visual culture, and history and sociopolitics of archaeology
- Matthew Edney, Ph.D., Wisconsin-Madison, 1990, Professor and Faculty Scholar, Osher Map Library and Smith Center for Cartographic Education* — history of cartography, history of geography, historical geography
- Nathan D. Hamilton, Ph.D., Pittsburgh, 1985, Associate Professor* — Northeast prehistory, Andean Peru prehistory, maritime adaptation, quantitative methods
- Yuseung Kim, Ph.D., University of Colorado, Ph.D., 2010, Affiliated Associate Professor* — Sustainable development, agent-based modeling, GIS, urban design, planning support system, land use planning, and community development
- Sarah Lockridge, Ph.D., American University, 2008, Lecturer* — Gender, economics, development and tourism, indigenous rights, race, ethnicity, nation, and global climate change
- Firooza Pavri, Ph.D., Ohio State University, 1999, Professor* — Human-environment interactions, landscape change, remote sensing/GIS
- Lydia A. Savage, Ph.D., Clark, 1996, Professor* — social geography, urban geography, gender issues, labor unions
- Mark Swanson, Professor, PhD, North Eastern, 1975* — structural geology, field mapping, GIS, drone survey
- Vinton Valentine, Ph.D., University of Delaware, 2003, Adjunct Professor; Director of GIS* — GIS, remote sensing, free & open source geospatial software, coastal and marine geography

EMERITI:

- Diana C. Crader, Ph.D., UC, Berkeley, 1981, Associate Professor* — African prehistory, zooarchaeology, human evolution
- Dave D. Davis, Ph.D., Yale, 1975, Professor* — archeology, material culture theory, West Indies
- Franklin D. Hodges, M.A. Clark, 1966, Associate Professor* — geography of Maine, economic geography
- Judy Tizon, Ph.D., UC, Santa Barbara, 1975, Associate Professor* — cultural anthropology, culture theory, victims of progress, women in cross cultural perspective

MARYLAND

FROSTBURG STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1964

DEGREES OFFERED: B.A., B.S.

GRANTED 9/1/16-8/31/17: 19 Bachelors

MAJORS: 85

CHAIR: James C. Saku

DEPARTMENT ADMINISTRATIVE ASST: Gale A. Yutzy

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, Frostburg State University, 101

Braddock Rd., 201 Gunter Hall, Frostburg, Maryland 21532. Telephone (301) 687-4369 or 4724. Fax (301) 687-4495. E-mail: jsaku@frostburg.edu. Internet: www.frostburg.edu/dept/geog/.

PROGRAMS AND RESEARCH FACILITIES: Programs available are a major in Geography with concentrations in Mapping and Geospatial Sciences, Global Systems Analysis, Climate Science, a major in Earth Science with an Environmental Science concentration and a Teaching Certification option, and a major in Environmental Analysis and Planning. An internship program is available with a variety of local, state and federal agencies and firms. The department strives to provide students with a balance of academic and applied preparation.

The department's classrooms, laboratories, and offices are located in a building complete with wireless internet service. Departmental resources include surveying equipment complemented by seven total stations and data collectors, a map library housing a variety of topographic and thematic maps, a soils lab, and rock and mineral specimens. The department houses three well-equipped networked computer labs for geographical data processing. The Environmental Engineering, Geographic Visualization, GeoProcessing, and GiScience labs combined contain a total of 37 workstations, two 42" plotters, one 60" plotter, one 42" scanner, and 2 large-format digitizing tablets. Other peripherals include color printers, laser jet printers, small-scale format scanners, and table-top digitizing tablets. Software available to students includes ESRI's suite GIS software, AUTOCAD, ENVI, Adobe Illustrator, SPSS and Surfer.

The Department operates with the Western Maryland Regional Geographic Information Center geared to research grants and contracts. The Ort Library has federal repository status and maintains a collection of maps, government documents, and geographic journals.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Application for admission or financial aid is available from the Office of Admissions. SAT scores are required.

FACULTY:

- Phillip P. Allen, Ph.D., Coventry University, UK, 2005, Associate Professor* — physical geography (Quaternary period; last 2.5 million years), historical geology, physical geology, soils genesis and characterization, geomorphic evolution of landscapes, especially in upland and cold climate regions
- Tianna A. Bogart, Ph.D., Delaware, 2013, Assistant Professor* — physical geography, climatology, global climate modeling, data inaccuracies and bias
- Jonathan M. Flood, Ph.D., Texas at Austin, 2016, Assistant Professor* — hydrology, geoarchaeology, paleoenvironments, geochemistry, human ecology
- Francis L. Precht, Ph.D., Georgia, 1989, GISP, Professor* — biogeography, GiScience, conservation, geography of alcohol
- Matthew E. Rampott, Ph.D., 2006, Kansas, Associate Professor* — remote sensing, aerial photo interpretation, land use/land cover, biogeography, environmental geography
- Richard A. Russo, Ph.D., 2009, University of Maryland, Associate Professor* — cultural, regional and urban geography, geography of food, sustainability issues
- James C. Saku, Ph.D., 1995, Saskatchewan, Professor* — economic development, North America, human, quantitative analysis, locational analysis, transportation, Sub-Saharan Africa
- William A. Wetherholt, Ph.D., 2016, Kansas State, Assistant Professor* — place attachment and place identity, critical cartography, ethics in GiSci, rural geography, qualitative and mixed methods, geographic education

ADJUNCT FACULTY:

- Tracy L. Edwards, M.A., Syracuse, 2010, Adjunct Lecturer* — human and physical geography

Adam P. Lewis, M.Ed., Frostburg State, 1994, Adjunct Lecturer — human, physical and world regional geography
Steven M. Guinn, B.S., Frostburg State 2007, Adjunct Lecturer — mapping science

EMERITI:

Henry W. Bullamore, AICP, Ph.D., Iowa, 1978, Professor — urban, land use, regional planning, research methods, tourism
Craig L. Caupp, Ph.D., Utah State, 1986, Professor — land development and reclamation, environmental impact assessment, water quality modeling, environmental law
James V. Cotton, Ed.D., Pennsylvania State, 1958, Professor Emeritus — North America, economic and human geography
Donald W. Duckson, Jr., Ph.D., Colorado, 1979, Professor Emeritus — fluvial geomorphology, hydrology, environmental monitoring and evaluation, surveying, physical geology, and earth-science education
Charles J. Farmer, Ph.D., Maryland, 1984, Professor Emeritus — historical geography, human geography
William Nizinski, M.S., Pennsylvania, 1956, Associate Professor Emeritus — cartography, remote sensing, aerial photo interpretation
John M. Riley, Ph.D., Maryland, 1978, Professor Emeritus — economic geography, conservation, physical geography, geographic education, Maryland and Russia
Thomas W. Small, Ph.D., Wisconsin-Madison, 1973, Professor Emeritus — glacial and pleistocene geomorphology, soils genesis and characterization, soil analysis, historical geology

SALISBURY UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND GEOSCIENCES

DATE FOUNDED: 1955

DEGREES OFFERED: B.S. in Geography; B.S. in Earth Science; B.S. in Urban and Regional Planning; M.S. in GIS Management

GRANTED 9/16-8/31/17: 45 Bachelors, 4 Masters

MAJORS: 109 Geography, 43 Earth Science, 10 Urban and Regional Planning, 17 Masters

CHAIR: Daniel W. Harris

PROGRAM MANAGEMENT SPECIALIST: Jennifer Horsman

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography and Geosciences, Salisbury University, 1101 Camden Ave., Salisbury, Maryland 21801. Telephone (410) 543-6460. Fax (410) 548-4506. E-mail: dwharris@salisbury.edu Internet: www.salisbury.edu/geography

PROGRAMS AND RESEARCH FACILITIES: The Departmental program emphasizes geographic concepts, techniques, skills and their application to the solution of environmental, land use and public planning problems. There are five tracks in the undergraduate Geography major: Atmospheric Science, Geographic Information Science, Human Geography, Physical Geography, and General Geography. The Department also offers a major in Earth Science, including a General Earth Science track and tracks in Secondary Education and GeoEnvironmental Science and a major in Urban and Regional Planning, with tracks in Land Use Planning and Environmental Planning. An internship program is available for interested students. As a student-centered department, the faculty concentrates on high quality teaching and advising, and active engagement in undergraduate research while maintaining an open-door policy.

The Department offers a Master of Science in GIS Management (MSGISM). The MSGISM program is a professional science master's degree, where students focus equally on the science and management of GIS technology. Targeted particularly at practitioners in the public sphere, the program is all on-line. For more information, please see www.salisbury.edu/geography/msgism.

The Department is in the endowed Richard A. Henson School of Science and Technology, and is housed in Henson Science Hall, offering well-equipped "smart" classrooms and modern laboratory facilities. The Department maintains its own computer laboratory, equipped with 48 workstations, color and laser printers, plotters, and scanners. We have site licenses for ESRI and Manifold GIS products and have a variety of digital image processing and cartographic software. The Department has laboratories dedicated to Physical Geography and Geology for instruction and research, a 12,000 sheet (USGS Depository) topographic map collection, a server devoted to spatial data, and a large rock and mineral collection. The Zeta Eta Chapter of Gamma Theta Upsilon, the Geographic Society, the Smart Growth Club and the AMS Student Chapter are available for extracurricular participation. The Department's Eastern Shore Regional GIS Cooperative conducts grant and contract work in GIS, remote sensing and cartography and frequently employs geography majors.

Salisbury University is located on U.S. Route 13 in Salisbury, MD, which has a metropolitan population of 80,000 and lies 30 miles west of Ocean City, MD; 115 miles southeast of Baltimore and Washington, D.C.; and, 125 miles south of Philadelphia.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System, Applications for admission and/or financial aid should be made to the Admissions Office. MSGISM: year-round instruction and rolling admission. Application must be made to SU Graduate School. See website (above) for details and admission forms.

FACULTY:

Amal K. Ali, Ph.D., Florida State, 2002, Professor — land use planning, urban policy, smart growth
Gina Bloodworth, Ph.D., Pennsylvania State, 2005, Associate Professor — resource management, water resources, environmental policy & law
Thomas R. Cawthern, Ph.D., University of New Hampshire, 2013, Assistant Professor — geochemistry, sedimentology, stratigraphy, marine geology
Mara Chen, Ph.D., Iowa, 1992, Professor — remote sensing, environmental geology, GIS, geosciences education
Mark de Socio, Ph.D., Cincinnati, 2005, Associate Professor — economic geography, political geography, regional economic development, business-state relations
Stuart Hamilton, Ph.D., University of Southern Mississippi, 2012, Associate Professor — GIS, remote sensing, land cover change
Daniel W. Harris, Ph.D., University of Maryland, 2012, Associate Professor and Department Chair — physical geography, geoscience education, GIS
Arthur J. Lembo, Jr., Ph.D., SUNY College of Env. Sci. & Forestry, 1997, Professor — GIS, spatial modeling, extreme event monitoring, cartography, mapping science, quantitative methods
Fulbert Namwamba, Ph.D., Iowa State, 1998, Professor — geology, water resources and environmental studies
Darren B. Parnell, Ph.D., South Carolina, 2005, Associate Professor — climatology, meteorology, quantitative methods
Craig A. Ramseyer, Ph.D., University of Georgia, 2016, Assistant Professor — climatology and meteorology
Michael S. Scott, Ph.D., South Carolina, 1998, Professor — GIS, environmental hazards, cartography
Keota Silaphone, ABD, University of Maryland, Lecturer — GIS, terrestrial nutrient inputs, watershed planning

Brent R. Skeeter, Ph.D., Nebraska-Lincoln, 1988, Professor and Associate Chair — climatology, meteorology, research methods
Vanessa Smullen, ABD, University of Maryland, Lecturer — physical geography, environmental engineering, groundwater, physical science

Brent J. Zaprowski, Ph.D., Lehigh, 2001, Professor — geomorphology, coastal processes, sediment analysis, geoscience education

TOWSON UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL PLANNING

DATE FOUNDED: 1955

GRADUATE PROGRAM FOUNDED: 1970

DEGREES OFFERED: B.A., B.S., M.A., Combined B.A or B.S / M.A.

GRANTED: 9/1/16-8/31/17: 30 Bachelors, 8 Masters

STUDENTS IN RESIDENCE: 88 Majors, 15 Masters

CHAIR: Charles Schmitz (cschmitz@towson.edu)

GRADUATE COORDINATOR: Todd Moore (tmoore@towson.edu)

FOR CATALOG AND FURTHER INFORMATION: Check the department website at www.towson.edu/geography.

CONTACT INFORMATION: Department of Geography and Environmental Planning, Towson University, 8000 York Rd., Towson, Maryland 21252. Telephone (410) 704-2973. E-mail: cschmitz@towson.edu.

PROGRAMS AND RESEARCH FACILITIES: Towson University offers a major and a minor in Geography and Environmental Planning, a major in Geography and Land Surveying in partnership with the Community College of Baltimore County-Catonsville, a minor in Geographic Information Sciences, and a minor in Climate, Weather and Society. In addition, the department offers a combined bachelor's / master's program for academically qualified students that enables them to complete both degrees in five years. Geography undergraduates also have the opportunity to participate in combined majors in economics, history, sociology/anthropology, and political science. In addition to coursework, students may participate in directed research, internships, service learning, study away, and travel study. An up-to-date computer lab serves the department's needs in the areas of GIS, statistical analysis, digital cartography, air photo and remote sensing. Among the department's resources are a physical geography lab, and a remote weather station that serves the university and is linked to the National Weather Service. In June 2011 the department moved into the University's College of Liberal Arts complex. Towson University is situated just north of Baltimore city, placing it within easy driving distance of Washington, D.C. and Philadelphia with their major research assets. Annapolis is only thirty minutes away. In addition, a number of other universities and colleges, with their complementary facilities, are located in and around metropolitan Baltimore. Teaching excellence is a hallmark of the University and of the Department.

MASTER'S PROGRAM: The program is designed to provide a broad mastery of the field through a balanced curriculum of topical and regional studies with research experiences. Requirements for the M.A. are the successful completion of 36 semester hours for the non-thesis option or 30 semester hours plus a 6-credit thesis. Most courses are taught during the evening hours, and most graduate students are part-time students. Each year the department supports two to three graduate assistants.

UNDERGRADUATE ADMISSIONS AND FINANCIAL AID:

Admission to the university is essentially based on evaluation of high school records and the SAT1 or ACT tests. A number of financial aid programs are available; for further information contact: Financial Aid Office, Towson University, 8000 York Road, Towson, Maryland 21252. Telephone (410) 704 4236. <http://onestop.towson.edu/finaid/>

GRADUATE ADMISSIONS AND FINANCIAL AID: Semester system. Admission is based on evaluation of individual applicant's experience, letters of recommendation (minimum of two) and a transcript of previous course work. Admission is competitive; a minimum of three undergraduate geography courses with a G.P.A. of 3.0 or higher is required for full admission.

FULL-TIME FACULTY:

Kent Barnes, Ph.D., Rutgers, 1984, Associate Professor — Natural and technological hazards, environmental planning and impact analysis, quantitative methods, Australia and New Zealand

Natasha Fath, Ph.D., Moscow State University, Lecturer — Russia, environmental geography, physical, world regional

Kelsey Hanrahan, Ph.D., University of Kentucky, 2015, Assistant Professor — Development and Livelihoods, Gender and Ageing, Families and Intergenerational Relationships, Feminist Geographies, Geographies of Care, Sub-Saharan Africa, Qualitative Methodologies

Sya Buryn Kedzior, Ph.D. University of Kentucky, 2011, Assistant Professor — Pollution knowledge and hydrogeopolitics in the Ganges River Basin

Kang Shou Lu, Ph.D., Clemson, 2001, Associate Professor — Spatial analysis, landuse planning, tourism management, GIS

Alan Marcus, Ph.D., University of Massachusetts - Amherst, 2008, Associate Professor — Brazil, Latin America, Migration, Race, Cultural Geography, Ethnic Geography

Todd W. Moore, Ph.D., Texas State University-San Marcos, 2013, Assistant Professor — Severe weather hazards and climate change

John M. Morgan III, Ph.D., Maryland, 1980, Professor and Director Emeritus of The Center for Geographic Information Sciences — GIS, outdoor recreation planning and management, remote sensing, Alaska

Martin C. Roberge, Ph.D., Arizona State, 1999, Professor — Hydrology, fluvial geomorphology, data science, open source software development

Charles Schmitz, Ph.D., Berkeley, 1997, Professor and Chair — Human, Middle East, political ecology, globalization

James M. Smith, Ph.D. Kent State University, 2005, Associate Professor and Director of M.A. Professional Studies Program — Ethnic identities; globalization and politics; East Asia

Jeremy Tasch, Ph.D., Clark, 2006, Professor — Eurasia, Arctic Studies, political ecology

Paporn Thebpanya, Ph.D., Georgia, 2003, Associate Professor — Cartography/geographic visualization, GIS, remote sensing

Virginia Thompson, Ph.D., Oklahoma, 1995, Associate Professor — Urban, social, regional, geographic education

PART-TIME FACULTY:

Douglas Adams, M.A. — GIS Database Design, Photogrammetry

D. Brett Collins, M.A. — Physical, Regional, International Affairs

Charles L. Goodman, M.R.C.P. — Transportation planning, Comprehensive Planning

Jonathan Lesh, M.A. — Physical, Human, Geography of Maryland, Urban Systems

Jeremy Monn, M.A. — Geospatial Applications

Timothy Scott Pruett, Ph.D. — Physical, human and world regional Geography

Henry L. Schupple, Jr., M.A. — World Regional, Physical Geography

Alireza Shahvari, Ph.D. — Physical Geography

Omar Young, M.A. — Human Geography

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY (UMBC)

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL SYSTEMS

DATE FOUNDED: 1967

GRADUATE PROGRAM FOUNDED: 2018

DEGREES OFFERED: B.A., B.S., a joint

Bachelors/Masters Degree, M.S., Professional Studies

Certificate in GIS, Masters of Professional Studies (MPS)
in GIS, Ph.D.

GRANTED 1/17-12/31/17: 76 Bachelors

MAJORS: 320 Majors, 8 Masters, 1 Ph.D.

CHAIR: Alan Yeakley

DEPARTMENT OFFICE MANAGER: Robin
Schmidbauer

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography and Environmental Systems, 211
Sondheim Building, University of Maryland Baltimore County, 1000
Hilltop Circle, Baltimore, Maryland 21250. Telephone (410) 455-
2002. Fax (410) 455-1056. Internet: <http://ges.umbc.edu/>

PROGRAMS AND RESEARCH FACILITIES: The department
offers a B.A. degree in geography & environmental studies, a B.S. in
environmental science & geography, and a certificate in GIScience.
The department has two graduate programs: a Masters of Professional
Studies (M.P.S.) in GIS, and a M.S. and PhD in Geography and
Environmental Systems.

The department's undergraduate curriculum includes introductory
course work in physical and human geography and environmental
science. Students take upper division courses based upon their degree
programs (see our website at <https://ges.umbc.edu/> for specifics) but
generally all students take a broad range of courses that include
human and physical geography, environmental science, environmental
studies and GIS. Each student's major program is designed in
consultation with a faculty advisor in order to ensure both breadth and
rigor in academic preparation for graduate school or professional
employment. Students are encouraged to complete internships with
public agencies, private-sector companies, or nonprofit organizations.
Opportunities are also available for involvement in faculty research
projects or in student- designed projects that may be funded through
competitive awards available from the University.

The Professional Studies Certificate in GIS and the Masters of
Professional Studies in GIS are intended to provide an advanced level
of education to professionals working in the region's robust geospatial
technology industry. The two programs have a particular focus on the
information systems and computer science aspects of GIS and are
intended to provide professionals with specialized training in the
technical and analytical aspects of GIS.

The graduate program has three areas of concentration available to
students: (1) Environmental Systems, including water resources and
earth-surface processes, ecosystem science, and atmospheric
processes; (2) Human Geography, with an emphasis on coupled
human-natural systems including the impacts of human activities on
the environment, the socioeconomic consequences of environmental
degradation, and environmental policy; and (3) Geographic
Information Science and Remote Sensing. Research on the urban
environment is a particular strength among the opportunities available
through our program. The areas of concentration identified above are
not separate programs and do not have separate application
requirements; students may elect to pursue a program of study that
draws from multiple areas to suit their particular needs.

The department is at the interface among natural science, social
science, public policy, engineering and information technology, with
faculty who have background and collaborative relationships in both
research and teaching related to all of these areas. The spatial
perspective central to Geography as a discipline provides an analytical
framework that bridges disciplinary boundaries and utilizes the tools
of GIS to assist in our understanding of complex patterns in the
natural and human environment. Collaborative relationships with
other academic programs on campus include Public Policy,
Economics, the School of Aging Studies, Civil and Environmental
Engineering, Computer Science, Information Systems, Mathematics
and Statistics, Biological Sciences, and Physics.

The environment is a key focus area of education and research on the
UMBC campus. In addition to a core group of interested faculty from
the natural sciences, social sciences and engineering, the campus hosts
the field headquarters of the Baltimore Ecosystem Study (BES), an
NSF and U.S. Forest Service-supported Urban Long-Term Ecological
Research Site; the Joint Center for Earth Systems Technology (JCET),
a NASA/UMBC consortium focusing on earth systems science and
the application of remote sensing technology to monitoring of the
earth's atmosphere and surface; the Center for Urban Environmental
Research and Education (CUERE), focusing on the environmental,
social and economic consequences of landscape transformation
associated with urban and suburban development; and the U.S.
Geological Survey Water Science Center for the MD-DE-DC region,
which is located in the campus Research Park with a staff of 60+
personnel. In addition UMBC is a partner, along with several other
University of Maryland institutions as well as other research
universities and federal agencies, in the Chesapeake Watershed
Cooperative Ecosystem Studies Unit (CESU), part of a national CESU
network. The concentration of environment-related research activity
on campus provides a rich and diverse set of opportunities for
prospective graduate students entering our program.

The Department has three teaching labs designed to support
undergraduate as well as graduate education: the GIS/Remote Sensing
lab has 33 workstations running windows OS, the lab software
includes ArcGIS Desktop 10.5.1, ENVI, R, QGIS, and Agisoft
Photoscan software along with selected other packages; the
cartography lab has an additional 17 workstations designed for smaller
more advanced courses that empathize group work and team projects.
The environmental science lab has 24 seats and supports multiple
classes in environmental science and ecology. Additional facilities are
available on campus for undergraduate and graduate students working
on projects at CUERE, including a hydrology laboratory and local
hydrologic data collection networks, and analytical labs for processing
of water, sediment and soil samples. USGS has installed field-
monitoring stations on campus that can be used for training purposes.
There are a broad range of internship opportunities in the region as
well as on campus through BES, CUERE, JCET/GEST, and USGS.

UMBC is an outstanding geographic location for students and faculty.
Baltimore is within convenient driving distance of New York,
Philadelphia, Pittsburgh, and Washington, D.C. The proximity of the
Appalachians, the Piedmont, and the Coastal Plain, including the
Chesapeake Bay, offers many research opportunities. In addition to
UMBC's own library facilities, other research libraries and facilities
are readily accessible at the Johns Hopkins University, the University
of Maryland College Park, the Pratt Library of Baltimore, the U.S.
Department of Agriculture in Beltsville, the Library of Congress, and
the National Archives I and II. In addition, the proximity of UMBC to
the federal agency universe of the Washington D.C. area (e.g., EPA,
Departments of the Interior, Agriculture, Transportation, NASA,
NAOA, USFS, NPS, USGS) provides extraordinary opportunities for
students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: UMBC is on a semester schedule. A limited number of courses are available in summer and winter sessions. The B.A. requires a minimum of 48 credit hours (44 within the department), the B.S. requires 63 credit hours (39 within the department). The department has two minor degrees, each of which requires 18 credit hours of course work. Interested applicants should write the Director of Admissions, UMBC, for complete instructions and criteria for admission. New freshman applicants must provide SAT scores. Financial aid is available, and interested prospective applicants are encouraged to write the Office of Financial Aid for a listing of programs and requirements. The department also offers a joint Bachelor/Masters degree option.

Graduate: UMBC is on a semester schedule. Students wishing to enter the Ph.D. or M.S. programs in Geography and Environmental Systems must meet the minimum standards for admission to the University of Maryland Graduate School, Baltimore. Candidates for admission must have earned a minimum GPA in the undergraduate degree of 3.0 overall and 3.3 for the major. All applicants must submit scores for the Graduate Record Examination, letters of recommendation, and a statement that outlines education goals and research interests. The department will have a limited number of Graduate Assistantships available. More details are available at our website (<http://ges.umbc.edu/>).

FACULTY:

Dena Aufseeser, Ph.D., University of Washington, 2012, Assistant Professor — Critical Poverty Studies, urban change, international development
Matthew Baker, Ph.D., University of Michigan, 2002, Professor — Ecosystems ecology, stream and riparian ecology, landscape ecology, quantitative methods
Dawn Biehler, Ph.D., University of Wisconsin, 2007, Associate Professor — Health geography, urban environmental history, environmental justice
Suzanne Braunschweig, Ph.D., Virginia Polytechnic Institute and State University, 1993, Senior Lecturer and Director of Interdisciplinary Science Program — Plant biology, science education
Erle C. Ellis, Ph.D., Cornell, 1990, Professor — Biogeochemistry, landscape ecology, managed ecosystems
Matthew Fagan, Ph.D., Columbia, 2014, Assistant Professor — Forest ecology, conservation biology, sustainability science
Jeffrey Halverson, Ph.D., University of Virginia, 1995, Professor — Tropical meteorology, hurricanes and severe weather
Margaret Holland, Ph.D., University of Wisconsin-Madison, 2009, Associate Professor — Conservation and development, Geospatial analysis of human-environment interactions, protected areas
David Lansing, Ph.D., Ohio State, 2009, Associate Professor — Nature-society, environmental policy, agrarian change
Dillon Mahmoudi, Ph.D., Portland State University, 2017, Assistant Professor — Critical GIS, economic geography, urban studies, labor markets, digital geography
Andrew J. Miller, Ph.D., Johns Hopkins, 1983, Professor — Geomorphology, hydrology, water resources, urban environment
Joseph C. School, M.A., Temple, 1983, Instructor and Director of GeoSpatial Labs — Cartography
Colin Studds, Ph.D., University of Maryland, 2009, Assistant Professor — Macrobiology, biogeography, species management strategies in context of global change
Chris Swan, Ph.D., University of Maryland, 2003, Professor — Community ecology, aquatic ecosystems
Alan Yeakley, Ph.D., University of Virginia, 1993, Professor and Chair — Urban ecology, wetland and riparian ecology, watershed hydrology, biogeochemistry, water quality

AFFILIATE FACULTY:

Chris Steele, Ph.D., University of Maryland, 2007, Affiliate Associate Professor — Cultural ecology, contemporary international issues

RESEARCH FACULTY AND AFFILIATE RESEARCH SCIENTISTS:

Petya Entcheva Campbell, Ph.D., University of New Hampshire, 2000, Affiliate Assistant Research Professor, Joint Center for Earth Systems Technology (JCET) — Remote sensing of vegetation, vegetation biophysical parameters and spectral response
Peter Groffman, Ph.D., University of Georgia, 1984, Affiliate Research Scientist, Institute of Ecosystem Studies — Environmental regulation of microbes, ecosystem function and nutrient cycling, water and air quality, soil carbon storage
Karl Fred Huemmrich, Ph.D., University of Maryland, College Park, 1995, Affiliate Associate Research Professor, JCET — Remote sensing of ecosystem structure and function
Amita Mehta, Ph.D., Florida State University, 1991, Affiliate Assistant Research Professor, JCET — Remote Sensing, Climate Variability
Steward T. A. Pickett, Ph.D., University of Illinois at Urbana-Champaign, 1977, Affiliate Research Scientist, Baltimore Ecosystem Study — Urban ecosystems, function of landscape boundaries, plant community succession
Lorraine Remer, Ph.D., University of California, Davis, 1991, Affiliate Research Professor, JCET — Atmospheric Science
Chris Shuman, Ph.D., Pennsylvania State University, 1992, Affiliate Associate Research Professor, Joint Center for Earth Systems Technology — Cryosphere, Remote Sensing of Ice Sheets, Antarctica
Ali Tokay, Ph.D., University of Illinois at Urbana-Champaign, 1993, Affiliate Associate Research Professor, Joint Center for Earth Systems Technology — Cloud and precipitation physics, severe storms
Kevin Turpie, Ph.D., University of Maryland, 2012, Affiliate Associate Research Professor, Joint Center for Earth Systems Technology — Ocean remote sensing, ocean ecology, coastal wetlands

EMERITI FACULTY:

Sari J. Bennett, Ph.D., University of Illinois at Urbana-Champaign, 1977, Clinical Associate Professor and Director, Maryland Geographic Alliance — Economic geography, geographic education
Roger N. Dubois, Ph.D., University of Wisconsin, 1972, Associate Professor — Geomorphology
Robert J. Earickson, Ph.D., University of Washington, 1968, Associate Professor — Urban, medical geography
Keith D. Harries, Ph.D., UCLA, 1969, Professor — Social, urban, GIS applications
Eugene (Sandy) Parker, Ph.D., University of Colorado, 1981, Associate Professor — Environmental history and conservation, cultural ecology, public lands

UNIVERSITY OF MARYLAND, COLLEGE PARK

DEPARTMENT OF GEOGRAPHICAL SCIENCES

DATE FOUNDED: 1942

GRADUATE PROGRAM FOUNDED: 1942

DEGREES OFFERED: BS, BS/MS program addition
Master of Professional Studies in GIS & GEOINT
(MPS/GC), PhD

GRANTED SPRING 2018: 53 Bachelors, 25 MPS/GIS, 3
Graduate Certificate in GIS, 7 PhD

STUDENTS: 200 Majors, 164 MPS, 60 PhD

CHAIR: Chris Justice

DIRECTOR OF ADMINISTRATION: Vivre Bell

GRADUATE APPLICATION COORDINATOR: Rachel
Berndtson (PhD), Kristen Bergery (MPS)

GRADUATE DIRECTOR: Laixiang Sun

FOR FURTHER INFORMATION CONTACT: Department of
Geographical Sciences 2181 LeFrak Hall, University of Maryland at
College Park, College Park, MD 20742-8225. Telephone (301) 405-
4050. Fax (301) 314-9299. Internet sites: Department,
www.geog.umd.edu; Campus, www.umd.edu.

RESEARCH FACILITIES AND PROGRAMS: The University of
Maryland, Department of Geographical Sciences maintains one of the
most active externally funded geographic research programs in the
U.S.A. Over the last two decades, this research has rapidly expanded
and evolved to address the growing importance of geographical issues
in public policy and research. In addition to the Teaching Faculty,
there are ~100 Research Faculty in residence. The Department is
housed in 25,000 sq. ft. on the main College Park campus and (11,000
sq. ft.) in an off-campus research building (Hartwick). Three teaching
laboratories are dedicated to computer-based instruction of geospatial
information sciences with over 75 PCs dedicated to teaching and
graduate research. The research laboratories support Linux, and high-
end PC machines, with very high performance processors and multi-
terabyte RAID arrays. An extensive range of software is available,
including satellite data processing, image analysis, and ESRI GIS
packages. Many opportunities exist for students to participate in
externally funded research projects and field research. Scalable,
shared departmental HPC resources are available for graduate students
and faculty to use and research projects to build on. The Department
has recently developed a Center for Geospatial Information Science
(CGIS) with faculty joint appointments in the University's Institute for
Advanced Computer Studies (UMIACS). The Center offers short
courses on advanced geospatial methods. The Department has also
recently established a Joint Carbon Cycle Science Center with the
NASA Goddard Space Flight Center, with opportunities for graduate
fellowships.

Research specializations in the department cover four major areas:

- *Human Dimensions of Global Change:* The department's
ultimate research goal is to advance an integrated understanding
of the coupled Earth system including spatially distributed
human processes. Our research addresses both fundamental and
applied issues in coupled human and natural systems, such as
population, socio-economic development, consumption and
production, poverty, climate impacts and adaptation,
vulnerability and mitigation, as well as the examination of policy
options and trade-offs on sustainability. Our scientists
investigate both the human socio-economic system and the
climate system, and their linkages.

- *Geospatial Information Science and Remote Sensing:* Collecting
and interpreting geospatial data is central to everything we do as
geographers, whether on computers or in the field. From local
events to multi-scale processes, our faculty are developing and
applying advanced remote sensing capabilities and GI Science
that will help us to develop the next generation of GI
technologies and understanding of the world's geography. The
Department is renowned for its satellite remote sensing. Our
strengths include sensor calibration and design, image
processing and global product development, advanced computer
modeling, scientific and geographic visualization,
geocomputing, spatial statistics, and semantic learning.
- *Land Cover-Land Use Change:* Land-cover and land-use change
is a key interface between human and natural systems. Our
scientists are world leaders in the remote sensing of land-cover
change. This information is actively combined with human
socio-economic data to study past land cover and land use
change and to inform advanced modeling of spatially-explicit
future scenarios. These methods are used to simultaneously
address social, economic, carbon, climate, biodiversity and other
aspects of land-use changes. We developed global monitoring
systems for agriculture, fire, droughts, floods, desertification,
and other catastrophic events, to study societal impacts,
adaptation and vulnerability.
- *Carbon, Vegetation Dynamics and Landscape-Scale Processes:*
The department carries out a broad array of research focused on
monitoring vegetation dynamics, with a particular focus on
mapping and studying human and natural disturbances and their
landscape-scale impacts, as well as changes to the earth surface
as a result of climate variability. This research involves
integration of field-based research with remotely-sensed
observations to address key scientific uncertainties. Alterations
to the global carbon cycle are changing atmospheric composition
and climate with implications for human well-being and a
particular focus of our research is on monitoring and modeling
the terrestrial carbon cycle with unprecedented sophistication
and resolution

The Washington, D.C. Metropolitan area is an exceptional location in
which to pursue geographic research. Many national and international
agencies and organizations are within a short distance of the campus.
Major national research laboratories are close by, including the NASA
Goddard Space Flight Center, the Joint Global Change Research
Institute, the USDA Beltsville Agricultural Research Center, the
National Archives, Bureau of the Census, National Institutes of
Health, USGS, National Geospatial-Intelligence Agency (NGA),
NOAA and the Offices of the US Global Change Research Program.
International and non-governmental agencies are also located within
easy reach, including Conservation International, The Nature
Conservancy, World Wildlife Fund, the World Bank, the National
Geographic Society, and many others. Corporations, businesses, and
nonprofit organizations that use geographical applications are also
well represented. Libraries on campus and nearby are unrivaled
anywhere in the world. The University of Maryland is also located in
a region of extraordinary geographic diversity, including two major
urban centers (Baltimore and Washington, D.C.), the Appalachian
Mountains, Piedmont, Coastal Plain, Chesapeake Bay, and the
Atlantic Coast.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: The College Park campus operates on a semester
system. Admission applications are received for freshman and
transfer-student admission. To apply online, go to
www.geog.umd.edu/landing/undergraduate or e-mail geog-advise@umd.edu with any questions. UMD Geographical Sciences
offers major programs in Geography and GIS/ Remote Sensing.
Associated with these programs, the Department offers an honors

program that allows undergraduates to work closely with a faculty mentor on independent research. In addition, the Department participates in the cross-campus Environmental Science and Policy (ENSP) program. Within ENSP, a multidisciplinary degree, Geography specifically sponsors (1) Land Use, (2) Global Environmental Change, and (3) Marine and Coastal Management concentrations. The Department also offers two minors: Geographic Information Science (GIS) and Remote Sensing. The GIS Minor is designed to give undergraduate students from other majors the technical skills needed to acquire, manage, and analyze geographic data. The Remote Sensing Minor is designed to use remote sensing as an analytical tool for identifying the impacts of environmental change on physical and human landscapes. For more detailed information on all undergraduate programs, see the department's web site at: www.geog.umd.edu/landing/undergraduate or email us at geog-advise@umd.edu.

Graduate: The Department of Geographical Sciences at UMD offers a PhD degree in Geographical Sciences. In addition, the Department offers Master of Professional Studies (MPS) and Graduate Certificate degrees in both Geospatial Information Sciences (GIS) mpsgis.umd.edu as well as Geospatial Intelligence (GEOINT) <http://geoint.umd.edu/>. Admission to the Graduate program does not require prior geography studies and students from related physical and social sciences are encouraged to apply. Closing date for applications is December 14 for Fall admissions for the PhD program, and July 26 for the MPS & Graduate Certificate programs. Full details of University graduate regulations can be found in The Graduate Catalog, available at www.gradschool.umd.edu/catalog. Details of the Geographical Sciences graduate degree requirements are regularly updated and available at www.geog.umd.edu.

The Master's Program: a 5 year BS/MS program option is offered to our best undergraduate students in their junior year.

The PhD Program: Admission to PhD program requires sponsorship by at least two Department Faculty members as well as meeting the admission requirements: cumulative undergraduate GPA of 3.3, GRE combined score of 320 or better. Foreign applicants must submit a Test of English as a Foreign Language (TOEFL, IBT 100). In addition, three letters of recommendation are required along with a statement of objectives and specialization consonant with current faculty specialties. Details on course requirements prior to advancement to candidacy, for students entering the program with a Masters and Bachelors degree can be found at www.geog.umd.edu/graduate/requirements

The MPS GIS and GC GIS Program: The Master of Professional Studies (MPS) degree in Geospatial Information Sciences offers comprehensive training in the key areas of GIS, including geographic information sciences, remote sensing techniques, spatial analytical methods, internet GIS, mobile GIS, open source GIS, modeling, and specialized computer programming tailored to GIS needs. The MPS Graduate Certificate in GIS offers a 12-credit overview of Geospatial Information Sciences from the same topical areas. Master's degree and certificate requirements, as well as admission requirements and application forms, are posted on the web at: mpsgis.umd.edu

The MPS GEOINT and GC GEOINT Program: The Master of Professional Studies (MPS) degree in Geospatial Intelligence offers workforce-focused technical training in order to lead new initiatives in regard to GEOINT applications, data collection systems, analytic methods and mission support. The MPS Graduate Certificate in GEOINT entails 12-credits based on 4 courses. Master's degree and certificate requirements, as well as admission requirements and application forms, are posted on the web at: <http://geoint.umd.edu/>

FINANCIAL AID: Financial Aid in the form of teaching assistantships, research assistantships, and various fellowships are available. Salary for a part-time (20 hrs/week) 9.5 month TA or GRA

starts at \$20,602 plus full tuition remission and an option for health insurance, and goes to \$21,633 for a PhD student advanced to candidacy. Some opportunities exist for funding during the summer months. For more information on the graduate programs, contact the graduate advising office: phone, (301) 405-9149; email, rberndts@umd.edu; or the Graduate Director, Dr. Laixing Sun: phone, (301) 405-4556; lsun123@umd.edu.

TENURED/TENURE-TRACK PROFESSORS:

*Giovanni Baiocchi**, Ph.D., Durham University, Associate Professor – environmental and ecological economics, computational economics

*Leila DeFloriani**, Ph.D., University of Genova, 1977, Professor – geometric modeling for scientific visualization, terrain modeling and computer graphics, and topological data analysis

*Ralph Dubayah**, Ph.D., UC Santa Barbara, 1991, Professor and Associate Chair – climatology, remote sensing, spatial analysis, space-borne LiDAR

*Martha Geores**, Ph.D., UNC Chapel Hill, 1993, Associate Professor – population and environmental interactions, natural resource definition, landscape, human dimensions of global change

*Matthew Hansen**, Ph.D., University of Maryland, 2002, Professor – land cover/land use change mapping, remote sensing, algorithm development

*Klaus Hubacek**, Ph.D., Rensselaer Polytechnic Institute, 2000, Professor – human dimensions of global change, sustainable development, ecological economics

*George C. Hurtt**, Ph.D., Princeton, 1997, Professor and Research Director – theory and application of community and ecosystem ecology, mathematical models

*Christopher Justice**, Ph.D., University of Reading, UK, 1977, Professor and Chair – global change, land cover/land use change, remote sensing, agricultural monitoring, fire monitoring, observation systems

*Shunlin Liang**, Ph.D., Boston University, 1993, Professor – cartography, numerical methods, remote sensing

*Tatiana Loboda**, Ph.D., Maryland, 2008, Associate Professor – impact assessment of single and repeated burning on tundra ecosystems of Alaska, supporting the global agenda for malaria eradication via space-time modeling of malaria in SE Asia

Taylor Oshan, Ph.D., Arizona State University, 2017, Assistant Professor – spatial analysis, spatial statistics and its applications to human geography

*Christina Prell**, Ph.D., Rensselaer Polytechnic Institute, 2003, Associate Professor – social networks and the environment

*Julie Silva**, Ph.D., Rutgers University, 2005, Associate Professor – uneven economic development in sub-Saharan Africa, environmental justice, human dimensions of global change

*Kathleen Stewart**, Ph.D., University of Maine, 2001, Professor – temporal GIS, event modeling for dynamic GIS, spatiotemporal accessibility, geospatial semantics, geospatial ontologies, spatiotemporal information retrieval

*Laixing Sun**, Ph.D., Netherlands Institute of Social Studies, 1997, Professor and Graduate Director – regional sciences and economics, climate change mitigation and adaptation

LECTURERS:

Rachel Berndtson, Ph.D., University of Maryland, 2009 – Human Dimensions

Micah Brachman, PhD., University of California, Santa Barbara, 2012 – geospatial intelligence, hazards & emergency management, network science, active transportation

Allen B. Eney, M.A., University of Maryland, 1985 – Maryland and the Chesapeake, human dimensions

Ruibo Han, Ph.D., University of Ottawa, 2012 – GIS and remote sensing

Eunjung Lim, Ph.D., SUNY at Buffalo, 2009 – spatiotemporal analysis, GIS modeling, programming

Ronald Luna, Ph.D., University of Maryland, 2009, Undergraduate Director – Latin-American migration, transnationalism, cultural spaces,
 Jianguo Ma, Ph.D., Cornell, 2006, MPS/GIS Program Director – Renewable energy and sustainable development
 Jonathan Resop, Ph.D., Virginia Tech, 2010 – Modeling of environmental, hydrological, agricultural and ecological systems
 Keith Yearwood, Ph.D., University of Florida – fluvial geomorphology
 Naijun Zhou,* Ph.D., University of Wisconsin, 2005 – Geographical Information Science

RESEARCH PROFESSORS:

John Armston*, Ph.D., University of Queensland, 2013, Assistant Research Professor – quantitative measurement & mapping of forest and woodland structure, and the development of validated satellite mapping products.
 Varaprasad Bandaru, Ph.D., University of Delaware, 2009, Associate Research Professor – geospatial modeling of agricultural systems, biofuels, crop yield modeling, cropland carbon dynamics
 Inbal Becker-Reshef*, Ph.D., University of Maryland, 2012, Research Assistant Professor – application of satellite information for agricultural monitoring at national and global scales
 Molly Brown*, Ph.D., University of Maryland, 2002, Associate Research Professor – nature-society interface, food security, agricultural development
 Louise Chini, Ph.D., Cornell, 2003, Research Assistant Professor – global land-use change, coupled human-natural systems, Earth system science
 Ariane de Bremond, Ph.D., UC Santa Cruz, Research Assistant Professor – climate change and development, socio-economic teleconnections and interactions with land-use change processes, REDD
 Jan Dempewolf*, Ph.D., U. of Maryland, 2007, Research Assistant Professor – agriculture and supporting ecosystem services, vegetation fire and land cover dynamics, remote sensing
 Evan A. Ellicott, Ph.D., University of Maryland, 2009, Research Assistant Professor – land cover and land use change, fire ecology, remote sensing
 William Emanuel, PhD, Oklahoma State University, 1975, Research Professor – global carbon cycle, terrestrial processes, land-cover/land use changes
 Kuishuang Feng, Ph.D., University of Leeds, 2011, Research Assistant Professor – sustainable consumption and production, human dimensions of global change
 Min Feng, Ph.D., Chinese Academy of Sciences, 2008, Research Assistant Professor – ecosystem services and hydrological modeling with intensive data and computation, geo-spatial based environment model development and integration
 Belen Franch*, Ph.D., Universitat de Valencia, 2013, Research Assistant Professor – surface albedo, atmospheric correction in the solar spectrum, agricultural monitoring
 Louis Giglio*, Ph.D., U. of Maryland, 2006, Research Professor – global fire monitoring and fire emissions, remote sensing, and satellite direct broadcast applications
 Michelle Hofton, Ph.D., Durham University, 1995, Research Associate Professor – topographical measurements and applications
 Chengquan Huang,* Ph.D., University of Maryland, 1999, Research Professor – land cover, land cover change, vegetation modeling, image analysis
 Roberto César Izaurralde,* Ph.D., Kansas State, 1985, Research Professor – soil organic matter dynamics and greenhouse gases in agricultural systems, ecosystem response to climatic change
 Curtis Jones, Ph.D., University of Florida, 2013, Assistant Research Professor – modeling biogeochemical cycling within agricultural systems as well as agricultural impacts, mitigation, and adaptation to climate change

Eric Kasischke,* Ph.D., Michigan, 1992, Research Professor – remote sensing, boreal forest ecology, fire ecology of boreal ecosystems, carbon cycling
 David Lagomasino, Ph.D., Florida International University, 2014, Assistant Research Professor – coastal wetland processes, blue carbon dynamics, remote sensing of forest structure, surface water/groundwater interactions
 SeungKuk Lee, Ph.D., Swiss Federal Institute of Technology Zurich, 2013, Assistant Research Professor – Polarmetric SAR Interferometry, 3D forest structure parameter retrieval from synthetic aperture radar (SAR) data, digital beamforming SAR system, GEDI (lidar) & TanDEM-X (SAR) data fusion for enhanced forest height/biomass estimates, blue carbon dynamics
 Mengxue Li*, Ph.D., Wuhan University of Technology, 2009, Research Associate Professor and Principal Dean for International Affairs – data and government policy, land cover/land use change, international S & T Cooperation in Earth Observation Area
 Janet Nackoney*, Ph.D., University of Maryland, 2012, Associate Research Professor – conservation land-use planning, habitat fragmentation, land use/land cover change and deforestation monitoring, food security
 Jyoteshwar Nagol, Ph.D., University of Maryland, 2011, Research Assistant Professor – remote sensing of vegetation dynamics, agriculture and irrigation, near surface remote sensing using small UAVs
 Catherine Nakalembe, Ph.D., University of Maryland, Assistant Research Professor – agriculture remote sensing, food security, climate change
 Peter Potapov*, Ph.D., Russian Academy of Science, 2005, Research Associate Professor – forest mapping and monitoring, optical remote sensing
 Jean-Claude Roger, Ph.D., University Blaise Pascal, France, 2006, Research Professor – remote sensing of atmosphere & land, atmospheric correction, calibration/validation, radiative transfer, aerosol characterization
 Ritvik Sahajpal, Ph.D., University of Maryland, 2014, Assistant Research Professor – geostatistics, multivariate analysis, machine learning
 Wilfrid Schroeder, Ph.D., University of Maryland, 2008, Research Associate Professor – remote sensing of active fires, biomass burning emissions modeling, land cover/land use change in Amazonia, remotes sensing using UAVs
 Fernando Sedano, Ph.D., UC Berkeley, 2008, Research Assistant Professor – remote sending sensor integration at medium spatial resolution, forest degradation in African tropical woodlands, forest fire dynamics in boreal ecosystems
 Joseph Sexton, Ph.D., Duke University, 2009, Research Assistant Professor – spatio-temporal ecosystem dynamics, sustainable ecosystem management
 Sergii Skakun, Ph.D., Space Research Institute Ukraine, 2005, Assistant Research Professor – agriculture monitoring, remote sensing
 Hao Tang, Ph.D., University of Maryland, 2005, Assistant Research Professor – 3D dynamics of terrestrial ecosystems using lidar remote sensing platforms
 John Townshend* Ph.D., University College London, 1971, Research/Emeritus Professor – land cover dynamics, remote sensing, information systems
 Svetlana Turubanova, Ph.D., Russian Academy of Science, 2002, Assistant Research Professor – forest ecology, forest mapping
 Dongdong Wang*, Ph.D., University of Maryland, 2009, Research Assistant Professor – remote sensing, spatial analysis
 Alyssa Whitcraft, Ph.D., University of Maryland, 2014, Research Assistant Professor – agriculture, monitoring and mapping of global agriculture characteristics and processes
 Feng Zhao, Ph.D., Boston University, 2010, Research Assistant Professor – LiDAR remote sensing, forest disturbance and regrowth, terrestrial carbon cycle, wetland studies

POSTDOCTORAL SCHOLARS:

Dong Chen, Ph.D., University of Maryland, 2017 – remote sensing, wildfire, forest disturbance, boreal, tundra
Martin Claverie, Ph.D. – remote sensing, agricultural plant science and environmental science
Andre de Lima, Ph.D., Brazilian National Institute for Space Research (INPE), 2013 – Geoscience, remote sensing of tropical forests
Ben DeVries, Ph.D., Wageningen University, 2015 – Landsat, Sentinel, land-cover changes, time series, surface water, eco dynamics
Junchuan Fan, M.S., University of Iowa, 2015 – geospatial semantics
Riccardo Fellegara, Ph.D., University of Genova, 2015 – spatial data structures, scientific visualization, computational topology, geometric modeling, data bases, informational systems & high performance computing
Joanne Hall, Ph.D., University of Maryland, 2017 – Impacts of weather & climate patterns on agricultural crop management & food security
Wenli Huang, Ph.D., University of Maryland, 2015 – active remote sensing of forests, satellite monitoring of water
Huiran Jin, Ph.D., State University of New York, 2013 – GIS, Land cover/land use classification and biomass estimation
Xiaopeng Song, Ph.D., University of Maryland, 2015 – satellite monitoring of land cover/land use change, deforestation, urbanization
Alexandra Tyukavina, Ph.D., University of Maryland, 2015 – remote sensing, forest cover change, carbon dynamics
Lei Wang, Ph.D., Chinese Academy of Sciences, 2009, Research Associate – urbanization and global environment change, global forest loss
Jie Zhang, Ph.D., University of Maryland – remote sensing, agriculture monitoring, drought, vegetation dynamics, water-food-energy nexus
Feng Robin Zhao, Ph.D., University of Maryland, 2015 – landscape succession simulation, carbon modeling, forest inventory, growth modeling

FACULTY SPECIALISTS:

Bernard Adusei, M.S., University of South Dakota, 2006
Alice Alstatt, M.S., University of Nevada, 1994
Brian Barker, M.A., University of Maryland, 2012
Kristen Bergery, M.A., University of Maryland, 2016
Alona Bunning, M.P.A., Columbia University, 2013
Saurabh Channan, M.S., Johns Hopkins, 2004
Charlene M. DiMiceli, B.S., Portland State, 1980
Madeline Guy, B.S., University of Maryland, 2017
Amy Hudson, B.S., University of Maryland
Michael Humber, M.S., University of Maryland, 2014
Erin Jacobs, M.B.A., University of Maryland 1999
Christina Justice, M.S., University of Maryland, 2015
Maureen Kelly, M.P.S., University of Maryland, 2018
John Keniston, M.P.S., University of Maryland, 2017
Indrani Kommareddy, M.S., Dakota State University, 2008
Xia Li, Ph.D., Beijing Normal University, 2013
David Minor, M.S., Michigan State University
Mary Mitkish, B.Phil, University of Pittsburgh, 2015
Emilie Murphy, M.S., University of Toulon-Var, 2005
Jacob Noel, M.A., University of Maryland
Jack O'Bannon, M.A., University of Virginia, 1997
Chima Okpa, B.S. University of Maryland, 2015
Amy Pickens, B.S., University of Maryland
Jeff Pickering, B.R.M., Unitec Institute of Technology, 2008
Estefania Puricelli, B.S. University of Buenos Aires
Fernando Ramirez, M.S., University of Maryland, 2010
Ashwan Reddy, M.S., George Mason University
Antonio Sanchez, B.S., University of Salamanca, 2006
Robert A. Sohlberg, B.S., University of Maryland, 1996
Mark B. Sullivan, B.S., University of Maryland, 1999
Will Walsh, B.S., Clemson University, 2011

ADJUNCT FACULTY:

Martha Anderson, Ph.D., University of Minnesota, 1993, Adjunct Professor, Research Physical Scientist USDA – ARS hydrology and remote sensing lab
Luigi Boschetti, Ph.D., Politecnico di Milano, 2005, Adjunct Associate Professor* – global scale applications of low and medium resolution satellite data, remote sensing of fire, multitemporal algorithms, REDD+
George James Collatz, Ph.D., Stanford, 1979, Adjunct Professor – global carbon cycle planning and research
Ivan Csizsar, Ph.D., Eotvos Lorand University, Budapest, 1996, Adjunct Associate Professor* – remote sensing, fire science, meteorology
Gunther Fischer, Ph.D., Adjunct Professor, Head of Land Use Change/Agriculture Program at International Institute for Applied Systems Analysis
Scott J. Goetz, Ph.D., University of Maryland, 1996, Adjunct Associate Professor* – remote sensing, biogeography, global terrestrial carbon flux modeling, forest ecology
Tao He, Ph.D., 2012, Adjunct Professor – Quantitative remote sensing of biogeophysical properties & remote sensing development
Dean Hively, Ph.D., Cornell, 2004, Adjunct Associate Professor* – soil science, remote sensing, watershed biogeochemical processes, GIS, resource conservation
Melissa Kenney, Ph.D., Duke, Affiliate Associate Research Professor – Environmental Decision Science
Jeffrey G. Masek, Ph.D., Cornell, 1994, Adjunct Associate Professor* – land cover change in temperate environments, advanced computing in remote sensing, satellite remote sensing techniques
Doug Morton, Ph.D., Maryland, 2008 Adjunct Assistant Professor – land cover change in tropical forests, remote sensing methods, ecosystem modeling
Richard Moss, Ph.D., Princeton, Adjunct Professor – vulnerability assessment & adaptation to global change
Ben Poulter, Ph.D., Duke, Adjunct Associate Professor – carbon cycle; methane budget; dynamic global vegetation modeling, forest succession, vegetation dynamics, remote sensing
Jun Qin, Ph.D., Beijing Normal University, Adjunct Associate Professor – quantitative remote sensing, data assimilation, climatology
David Roy, Ph.D., Cambridge, UK, 1993, Adjunct Professor* – land use change and fire, terrestrial remote sensing
Compton J. Tucker, Ph.D., Colorado, 1975, Adjunct Professor* – forestry, satellite remote sensing, AVHRR, tropical deforestation
Krishna Vadrevu, Ph.D., Osmania University, Adjunct Associate Professor, NASA Marshall Space Flight Center – remote sensing & GIS applications, satellite remote sensing of fires, biogeochemical cycling, land cover/land use changes, land atmosphere interactions, biodiversity & ecology, agroecosystems & sustainability
Eric Vermote, Ph.D., University of Lille, 1990, Adjunct Professor* – climate data records, radiative transfer, land surface reflectance, thermal (longwave) radiation, fire, aerosols
Darrel Williams, Ph.D., Maryland, 1989, Adjunct Professor – forest ecosystems, remote sensing measurements, physiological ecology

***Members of the Graduate Faculty who have served or are serving on dissertation and thesis committees.**

U.S. CENSUS BUREAU

DECENNIAL CENSUS PROGRAMS DIRECTORATE GEOGRAPHY DIVISION

SCOPE OF OPERATIONS: The Geography Division plans, coordinates, and administers all geographic and cartographic activities needed to facilitate the Census Bureau's statistical programs

throughout the United States and its territories. It also manages the Census Bureau's programs to continuously update the addresses, features, boundaries, imagery, and geographic entities in its nationwide, automated geographic support system.

The Geography Division conducts research into geographic concepts, methods, and standards needed to facilitate the Census Bureau's data collection and data dissemination programs; develops criteria to identify geographic entities needed for reporting statistical data where no legal entity exists; and devises systems and methodologies to provide specialized maps, geographic reports, and geographic data for publication and electronic dissemination. The division also represents the geographic, cartographic, and geospatial responsibilities of the Census Bureau within the federal government; provides expert advice on geographic and cartographic methods and practices appropriate for statistical programs; and coordinates partnership activities with tribal, federal, state, and local governments to acquire authoritative geospatial data.

CHIEF: Deirdre Dalpiaz Bishop
DEPUTY CHIEF: Gregory Hanks

AREAS, ASSISTANT DIVISION CHIEFS:

Address and Spatial Data Update: *Andrea Johnson*
Geographic Data Collection and Products: *Laura Waggoner*
Geographic Program Management and External Engagement: *Monique Eleby*
Geographic Standards, Criteria, Research, and Quality: *Michael Ratcliffe*
2020 Census Coordinator: *Brian Timko*

BRANCHES, CHIEFS:

Address Data Collection and Products: *Nathan Jones*
Address Frame Update: *Robert Damario*
Address and Spatial Analysis: *Lee Wentela*
Address Standards, Criteria, and Quality: *Stuart Irby*
Cartographic Products and Services: *Kevin Hawley*
Federal Geographic Coordination: *Lynda Liptrap*
Geographic Customer Service: *Trudy Suchan*
Geographic Project Management: *Vacant*
Geographic Research and Innovation: *John Liadis*
Geographic Standards, Criteria, and Quality: *Vincent Osier*
Geo-Location and Imagery: *Vacant*
Partnership Communications and Outreach: *Jennifer Holland*
Spatial Data Collection and Products: *Ryan Short*
Spatial Data Update: *Daniel Keefe*

CENSUS REDISTRICTING AND VOTING RIGHTS DATA OFFICE

SCOPE OF OPERATIONS: The Census Redistricting and Voting Rights Data Office is responsible for planning, managing and evaluating the Census Bureau's Redistricting Data Program to ensure the Secretary of Commerce and the Director of the Census Bureau have met the legal requirements of Public Law 94-171 (Title 13). This law amended Title 13, U.S.C. to require the secretary (who delegates responsibility to the Census Director) to work closely with each state on a nonpartisan basis, to determine what Decennial Census data are needed to redraw state legislative and Congressional districts after each census. The Census Redistricting and Voting Rights Data Office also is responsible for the coordination and production of the Section 203 determinations as required by the newly reauthorized Voting Rights Act.

CHIEF: James Whitehorne
ASSISTANT DIVISION CHIEF: Colleen Joyce

DEMOGRAPHIC DIRECTORATE
POPULATION DIVISION

SCOPE OF OPERATIONS: The Population Division's activities involve analysis of the population (both domestic and international) and its social and demographic characteristics, including study of the geographic distribution of the population and its geographic mobility, representing data in statistical and cartographic forms, and delineation of selected statistical geographic entities. The division participates in data programs including the Decennial Census, the Population Estimates Program, the Current Population Survey, and the American Community Survey.

CHIEF: Karen Battle
POPULATION GEOGRAPHY CHIEF: James Fitzsimmons

SOCIAL, ECONOMIC, AND HOUSING STATISTICS DIVISION

SCOPE OF OPERATIONS: The Social, Economic, and Housing Statistics Division's activities involve production and analysis of data on the characteristics of the population. This includes the study of the geospatial aspects of geographic mobility, place of work, and commuting. The division participates in data programs including the Decennial Census, the Survey of Income and Program Participation, the Current Population Survey, and the American Community Survey.

CHIEF: David Waddington
ASSISTANT DIVISION CHIEF: Stephanie Galvin

BRANCH, CHIEF:
Journey-to-Work and Migration Statistics: *Brian McKenzie*

FIELD OPERATIONS DIRECTORATE
FIELD DIVISION

SCOPE OF OPERATIONS: The Field Division plans, coordinates, and carries out the Census Bureau's field data collection programs; maintains and administers a field organization through its regional offices, temporary regional census centers, and temporary area census offices and other field offices; delineates selected statistical geographic entities in cooperation with appropriate governmental and nongovernmental officials; and provides for the effective deployment of field personnel to assure the efficient conduct of the collection of geographic and address information and census data. The Field Division's six regional offices employ geographic staff in Atlanta, Chicago, Denver, Los Angeles, New York, and Philadelphia. Between 2018 and the end of calendar year 2020, the geographic staff will support the Decennial Census out of the Regional Census Centers located in Atlanta, Chicago, Dallas, Los Angeles, New York, and Philadelphia.

CHIEF: Vacant
ASSISTANT DIVISION CHIEF: Gail Leithauser

BRANCHES, CHIEFS:
Address Coverage Operations: *Karen Field*
Decennial Data Collection: *Amy Fischer*
Geographic Support: *Nicole Parent*
Group Quarters: *Crystal Miller*

MASSACHUSETTS

CLARK UNIVERSITY

GRADUATE SCHOOL OF GEOGRAPHY

DATE FOUNDED: 1921

GRADUATE PROGRAM FOUNDED: 1921

DEGREES OFFERED: B.A. and Ph.D. in Geography, B.A. in Global Environmental Studies, B.A. in Environmental Science: Earth System Science Track. Accelerated M.S. in Geographic Information Science, M.S. in Geographic Information Science for Development and Environment

GRANTED 9/1/16-8/31/17: 41 in Geography Bachelors; 8 in Global Environmental Studies Bachelors; 2 Environmental Science: Earth Systems Science Track Bachelors; 9 Ph.D., 4 Masters of Art (M.A.) in Geography (pre-doctoral); 9 M.S. in GIS; 19 M.S. in Geographic Information Sciences for Development and Environment

STUDENTS IN RESIDENCE: 71 Geography Majors; 26 Global Environmental Studies Majors; 23 Environmental Science: Earth Systems Science Track Majors; 56 Ph.D.; 13 M.S. in GIS; 49 M.S. in Geographic Information Sciences for Development and Environment

NOT IN RESIDENCE: 1 Ph.D.

DIRECTOR: Deborah G. Martin

DEPARTMENT ADMINISTRATOR: Christine Creelman

FOR FURTHER INFORMATION WRITE TO: Assistant to the Director, Graduate School of Geography, Clark University, 950 Main St., Worcester, Massachusetts 01610-1477; Telephone: (508)793-7336; Fax: (508)793-8881; Email: geography@clarku.edu; Internet: www.clarku.edu/departments/geography.

PROGRAMS AND RESEARCH FACILITIES: The Graduate School of Geography at Clark has awarded more doctorates in Geography than any other institution in the United States. The School is central to a private institution of approximately 2,200 undergraduates and 900 graduate students. A liberal arts tradition is joined with the University-College in which faculty, graduate students, and undergraduates engage in joint teaching and research and cross-disciplinary exchange. The School offers an undergraduate and doctoral program covering all domains of Geography and an interdisciplinary undergraduate degree in Global Environmental Studies. An Earth System Science (ESS) concentration is offered to those majoring in the interdepartmental/interdisciplinary Environmental Science major. The undergraduate program permits qualified students to enter an Accelerated M.S. in GIS program. The graduate program in geography accepts students holding either a B.A./B.S. or M.A./M.S. and seeking a Ph.D. only. Although not required for the Ph.D. program, a Master's degree is available en route to the doctorate. An M.S. in GIS for Development and Environment (GISDE) is also available (see below).

The School includes 20 faculty members with teaching and research interests that cover the breadth of geography and cut across disciplinary boundaries. Faculty and students in the School maintain a high level of grant- and contract-supported research conducted throughout the world dealing with human-environment, remote sensing-GIS, urban-economic, earth system science, global change, globalization, and related themes; specific ongoing projects can be found on the School's web site (www.clarku.edu/departments/geography). In addition, the School publishes *Economic Geography*, an internationally peer-reviewed

journal founded in 1925 and owned by Clark University. *Economic Geography* is currently ranked 3rd (out of 79) in Geography journals and 4th (out of 347) in Economics journals with a (2016) ISI 2-year citation impact factor of 5.344 and 5-year citation impact factor of 6.085 (www.clarku.edu/econogeography).

The School is closely linked to the George Perkins Marsh Institute (www.clarku.edu/departments/marsh/) and the Jeanne X. Kasperson Research Library that facilitates interdisciplinary and multi-institutional research on nature-society relationships. The School also works closely with Clark Labs, a research center that developed within the School. Clark Labs creates and distributes the TerrSet software system (including Idrisi, the Earth Trends Modeler and the Land Change Modeler), and conducts research in GIScience, Earth Information Science, and Conservation GIS. Finally, the School has initiated a collaborative doctoral track in Geography and Genocide Studies with the Strassler Center for Holocaust and Genocide Studies. Clark University is located on a 50-acre campus within Worcester, the heart of central Massachusetts. Clark and ten other universities and colleges in the city and surrounding area form the Higher Education Consortium of Central Massachusetts. The School maintains a graduate student computer room and lounge, office or desk space for most graduate students, an undergraduate lounge, and EORS (Earth Observation and Remote Sensing Laboratory), an advanced computing lab.

The Graduate School of Geography and Clark's Department of International Development, Community, and Environment (IDCE) jointly offer a M.S. degree in Geographic Information Sciences for Development and Environment. The degree is designed as a three or four semester program for early and mid-career professionals with responsibilities in mapping, environmental database development, resource management, planning, policy implementation and environmental monitoring. For further information, contact the IDCE Department. Telephone: (508)793-7201; Fax: (508) 793-8820; Internet:

<http://www.clarku.edu/departments/geography/maprograms/gisde.cfm>

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Semester system. The School of Geography's undergraduate program emphasizes a broad education in the field of geography with specializations in urban-economic geography, human-environmental geography, GIS/remote sensing, and earth system science. Geography majors are required to become proficient in research methods and are encouraged to gain skills in quantitative methods, GIS, and mapping. Students with an outstanding academic record are eligible to participate in the Geography Honors program, which involves the completion of a two-semester independent honors project conducted under the supervision of a faculty member. Many geography majors study abroad, and qualified majors may be selected for Clark's prestigious Human-Environment Regional Observatory (HERO) Program which includes paid summer research fellowships and a year-long research seminar (<http://www.clarku.edu/departments/hero/>). Majors may also be selected for Clark's competitive internship program with NOAA.

The School also offers a major in Global Environmental Studies (GES) and a concentration in Earth Systems Science (ESS) through Clark's Environmental Science major. GES focuses on the cultural and political dimensions of environmental knowledge, practice, and policy, as well as environmental justice. ESS examines how the earth system's component parts interact and function as a whole through biophysical connections among land, cryosphere, atmosphere, and oceans. Both majors offer such technical skills as remote sensing and geographical information systems for those students seeking them as well as an array of internships, study abroad, and special study programs. GES majors and ESS majors are qualified to apply for the various honors and related programs noted above for geography. The Accelerated Degree Program in GIS gives qualifying Clark

undergraduate students access to our high-quality graduate programs and requires students to conduct original research. Applicants to the program who meet certain eligibility requirements can receive a tuition scholarship during their Fifth Year to pursue a M.S. degree.

For further information regarding the academic plan, admission requirements or financial aid, please contact the Undergraduate Admissions Office, Clark University, 950 Main Street, Worcester, Massachusetts 01610-1477, Telephone: (508)793-7431. For further information on the undergraduate programs in geography, global environmental studies, or earth system science, please contact Program Administrator Rachel Levitt (RLevitt@clarku.edu); Telephone: (508)793-7282. In addition, for Global Environmental Studies, you may email ges@clarku.edu. Internet: <http://www.clarku.edu/programs/major-or-minor-global-environmental-studies>.

For the Earth System Science track in the Environmental Science major, you may also contact Professor Christopher A. Williams (CWilliams@clarku.edu); Internet: <http://www.clarku.edu/departments/ES/ess/>.

GRADUATE (PH.D. PROGRAM): Semester system. Three year residence required for Ph.D. *Admission Requirements:* interests coincident with those of department; evidence of competence to pursue graduate work at the Ph.D. level; GRE scores required for all applicants; applicants from related fields will be considered. TOEFL scores (or the results of another English proficiency test) and the TOEFL test of spoken English (TSE) are required of those students from countries where English is not the first language. An exception is made for students who are currently studying in the United States, Canada, Great Britain, Australia, New Zealand, and South Africa or who have received a degree from a university in those countries. The application deadline is December 31st. *Financial Aid* includes minimum 3-year tuition fellowships and research and teaching assistantships for all admitted students. All students accepted into the program are funded equally, guaranteed for the first three years of study. Interested applicants should contact Program Administrator Rachel Levitt (RLevitt@clarku.edu); Telephone: (508)793-7282.

FACULTY:

- Luis Alvarez León, Ph.D., University of California, Los Angeles, 2016, Visiting Assistant Professor, Graduate School of Geography — economic geography, digital economy, geospatial data, media, and technologies*
- Yuko Aoyama, Ph.D., UC-Berkeley, 1996, Professor of Geography and Associate Provost and Dean of Research — economic geography, globalization, technological change, social innovation and entrepreneurship*
- Anthony J. Bebbington, Ph.D., Clark, 1990, Professor of Geography and Milton P. and Alice C. Higgins Professor of Environment and Society — human-environment, development geography, social movements, political ecology, extractive industries, Latin America*
- Asha Best, Ph.D., Rutgers University-Newark, 2017, Assistant Professor of Geography — urban geography, informality, mobilities, post-colonial and critical race theory*
- Mark Davidson, Ph.D., London, 2006, Associate Professor of Geography — urban geography, gentrification, urban politics, metropolitanism, policy-making, critical theory*
- J. Ronald Eastman, Ph.D., Boston, 1982, Professor of Geography, Program Director, GISDE and Director, Clark Labs — geographic information systems, remote sensing, earth system informatics, land use change*
- Jacque (Jody) L. Emel, Ph.D., Arizona, 1983, Professor of Geography — natural resources, political ecology, feminist theory, governance, animal geographies*
- Lyndon Estes, Ph.D., University of Virginia, 2008, Professor of Geography — geographic information science, remote sensing, land change science, agro-ecology, conservation, global change*

- Karen Frey, Ph.D., UCLA, 2005, Associate Professor of Geography — climate change, polar environments, sea ice variability, marine/terrestrial biogeochemistry, land surface hydrology, remote sensing*
- Dominik Kulakowski, Ph.D., University of Colorado, 2002, Associate Professor of Geography — forest ecology, mountain forest ecosystems, disturbance ecology*
- Deborah G. Martin, Ph.D., Minnesota, 1999, Professor of Geography and Director, Graduate School of Geography — urban/social/political geography, legal geography, urban governance/local politics, qualitative methods, place, social movements theories*
- James McCarthy, Ph.D., UC-Berkeley, 1999, Professor of Geography and Editor, Annals of the American Association of Geographers — political ecology, political economy, environmental governance, social theory*
- James T. Murphy, Ph.D., Florida, 2001, Associate Professor of Geography and Editor-in-Chief, Economic Geography — economic/urban/development geography, technology, sustainable development, networks, practice theory, Africa*
- Richard Peet, Ph.D., UC-Berkeley, 1968, Laskoff Professor of Economics, Technology and Environment, Professor of Geography — globalization, global governance, development theory and policy, philosophy and social theory, political ecology*
- Robert Gilmore Pontius, Jr., Ph.D., State University of New York, 1994, Professor of Geography and Associate Director, Graduate School of Geography — geographic information science, land change science, spatial statistics, quantitative modeling*
- Samuel J. Ratick, Ph.D., Johns Hopkins, 1979, Professor of Geography — environment and public policy, hazards, spatial analysis, decision science, geographic information science*
- John Rogan, Ph.D., San Diego State University and UC-Santa Barbara, 2003, Professor of Geography — remote sensing, land cover change, biogeography, fire ecology*
- Rinku Roy Chowdhury, Ph.D., Clark, 2003, Associate Professor of Geography — land system science, cultural & political ecology, institutions, urban ecology, agrarian systems and agroecology, Latin America*
- Florencia Sangermano, Ph.D., Clark, 2009, Visiting Assistant Professor, Graduate School of Geography and Research Assistant Professor, Clark Labs — conservation biology, geographic information science, remote sensing, landscape ecology*
- Christopher A. Williams, Ph.D., Duke University, 2004, Associate Professor of Geography — land surface hydrology, ecosystem ecology, hydroclimatic variability and change, global water and carbon cycles*

AFFILIATE, ADJUNCT, AND RESEARCH FACULTY:

- Edward R. Carr, Ph.D. Syracuse, 2001, Ph.D. Kentucky, 2002, Adjunct Professor of Geography and Professor and Director of International Development, Community, and Environment — livelihoods, development, human dimensions of global change, climate change adaptation, gender and identity, resilience, sub-Saharan Africa*
- Jacqueline Geoghegan, Ph.D., Berkeley, 1995, Adjunct Professor of Geography and Professor and Chair of Economics — spatial econometrics, resource economics*
- Roger E. Kasperson, Ph.D., Chicago, 1966, Research Professor and Distinguished Scientist, George Perkins Marsh Institute — environmental hazards, global environmental change, environmental policy*
- Robert W. Kates, Ph.D., Chicago, 1962, Affiliate Professor of Geography and Distinguished Senior Research Scientist, George Perkins Marsh Institute — sustainability of the biosphere, climate impact assessment, and nature/society theory*

Yelena Ogneva-Himmelberger, Ph.D., Clark, 1998, Adjunct Associate Professor of Geography and Associate Professor, Department of International Development, Community, and Environment — health applications of GIS and remote sensing; environmental justice and GIS; spatial statistics; land-use change and environmental degradation

Dianne E. Rocheleau, Ph.D., Florida, 1984, Senior Research Scientist, School of Geography — political ecology, environmental justice, urban ecology, gender, culture, nature, development, decolonial theories, forestry, agriculture, land and territory, social movements, network theories

B.L. Turner II, Ph.D. Wisconsin, 1974, Distinguished Research Professor, School of Geography — human-environment geography, land-change science, global environmental change

EMERITI FACULTY:

Martyn J. Bowden, Professor Emeritus

Susan Hanson, Distinguished University Professor Emerita

Douglas L. Johnson, Professor Emeritus

William A. Koelsch, Professor Emeritus

Lawrence A. Lewis, Professor Emeritus

Robert C. Mitchell, Professor Emeritus

Dianne E. Rocheleau, Professor Emeritus

Henry J. Steward, Professor Emeritus

MOUNT HOLYOKE COLLEGE

DEPARTMENT OF GEOLOGY AND GEOGRAPHY

DATE FOUNDED: 1904

DEGREES OFFERED: B.A.

GRANTED 2017-2018: 504 Bachelors

MAJORS: 11 Geology; 11 Geography

CHAIR: Thomas Millette

DEPARTMENT ADMINISTRATIVE ASST: Debra LaBonte

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Thomas Millette, Professor of Geography, Department of Geology and Geography, Mount Holyoke College, 50 College St., Clapp Laboratory, South Hadley, Massachusetts 01075-6419. Telephone (413) 538-2278. Fax (413) 538-2239.

E-mail: dlabonte@mholyoke.edu.

Internet: <https://www.mholyoke.edu/acad/geography>.

PROGRAMS AND RESEARCH FACILITIES: Founded in 1837, Mount Holyoke became the premier model upon which other colleges for women were shaped. From an original class of 80 students, Mount Holyoke has grown to encompass an ethnically, racially, and culturally diverse student body of over 2,210 students, a faculty of 234, and an extraordinary array of academic facilities spread across an 800-acre campus. The College offers majors in 50 fields and a curriculum constantly enriched by new and innovative courses. The Williston Library stores USGS and AMS depository maps; the Library also contains about 1,600 periodical subscriptions and its total collection is more than 750,000 volumes which includes books, serials and bound periodicals; and students are able to access the Five College library system from department computers.

The Department of Geology and Geography at Mount Holyoke College offers Bachelors Degrees in Geology and Geography. Geography has been taught since the college's founding; in 1930, the combined department was created, with separate majors in each discipline. Mount Holyoke College geography majors and minors learn about the impacts of social, economic, environmental, and political processes that shape spaces and places, the science of earth systems, the implications of climate change, and the use of geographic

information science (GIS) and remote sensing techniques to represent and analyze data and knowledge at different spatial scales.

The department's GeoProcessing Lab hosts state of the art hardware and software necessary for modern GIS and Remote Sensing applications. All 19 Dual Core workstations are networked and connected to two data-map-application servers, plotter, printers, and large format scanners. Our specialized software includes:

- ArcGIS
- Erdas Imagine with Photogrammetry Suite
- IDRISI
- Trimble Ecognition

Mount Holyoke is a member of the Five College consortium, sharing academic and cultural resources with Amherst, Hampshire, and Smith Colleges and the University of Massachusetts, Amherst. The more than 30,000 students attending the institutions may take courses, use library resources, and attend cultural and social events at any of the Five Colleges.

Mount Holyoke College is in South Hadley, Massachusetts, 5 miles north of the city of Holyoke and 12 miles north of Springfield. The Five-College towns of Northampton and Amherst are both 10 miles away. The college is 90 miles from Boston and 150 miles from New York City.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Semester system. Mount Holyoke has a need based financial aid program and over 70% of the student body receives some form of financial aid. Student research is often funded by Mellon, College, or department grants.

FACULTY:

Steven R. Dunn, Ph.D., Wisconsin-Madison, 1989, Professor — metamorphic petrology; stable isotope geochemistry; calcite-graphite isotope thermometry

Serin Houston, Ph.D., Syracuse University, 2011, Assistant Professor — urban, cultural, and social geography; refugee and migration studies; qualitative methods

Girma Kebbede, Ph.D., Syracuse University, 1982, Professor — development geography; population and food resources; Africa environments, economic development, and political conflicts

Vivian Leung, ABD., University of Washington, 2017, Mount Holyoke Fellow; Visiting Instructor — geology

Eugenio Marciano, Ph.D., Cornell University, 2006, GeoProcessing Lab Manager and Instructor in Geography — Geographic Information Systems (GIS); spatial analysis; soil science

Michelle J. Markley, Ph.D., University of Minnesota, 1998, Associate Professor — structural geology and tectonics

Mark A.S. McMenamin, Ph.D., University of California-Santa Barbara, 1984, Professor — paleontology, stratigraphy; history of life; evolution of the atmosphere; dynamic paleontology; Ediacaran fossils; Hypersea theory; Proterozoic supercontinent Rodinia; Vladimir Vernadsky's the Biosphere; convergent evolution; development and spread of biological and human innovations

Thomas L. Millette, Ph.D., Clark University, 1992, Professor — remote sensing; Geographic Information Systems (GIS); environmental and urban planning

Penny Taylor, ABD., University of Houston, 2005, Geology Lab Director — environmental geology; methods and earth science

Samuel Tuttle, Ph.D., Boston University, 2017, Visiting Assistant Professor — hydrology; soil science; data science

Alan Werner, Ph.D., University of Colorado, 1988, Professor — oceanography; environmental geology; climate change geology; sedimentology; ground water geology; surface processes; Quaternary geology

SALEM STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1932

GRADUATE PROGRAM FOUNDED: 1992

DEGREES OFFERED: B.A., B.S., M.S.

GRANTED (yearly graduates): 36 Bachelors; 9 Masters

STUDENTS IN RESIDENCE: 86 Majors; 17 Masters; 7
Certificates

CHAIR: Keith A. Ratner

ADMINISTRATIVE ASSISTANT: Ronnette Wongus

FOR FURTHER INFORMATION WRITE TO: Dr. Keith Ratner,
Department of Geography, Salem State University, 352 Lafayette St.,
Salem, Massachusetts 01970. Telephone (978) 542-6225. Fax (978)
542-6269. E-mail: rwongus@salemstate.edu. Internet:
<https://www.salemstate.edu/academics/colleges-schools/college-arts-and-sciences/geography>

PROGRAMS AND RESEARCH FACILITIES: The Department offers a B.S. Degree in Cartography and GIS and a B.S. or B.A. degree in Geography with three concentrations; general geography, environmental sustainability, sustainable tourism. At the graduate level the department offers an MS and a graduate certificate in Geo-Information Science. All programs combine a strong academic geography background with applied fields in regional studies, physical geography, sustainable tourism development, remote sensing, computer mapping and GIS.

A senior year internship program provides for career counseling and occupational experience for academic credit. The internship program is connected to many businesses and agencies within the Salem-Boston metropolitan area, which also serves as a valuable resource for post graduate employment.

The department combines a strong background in the academic tradition of geography with applied fields such as: Environmental sustainability; Sustainable tourism; GIS; Remote sensing and digital image processing; and cartography. We train our students to be scientists as well as concerned global citizens. Faculty and students often work with local and regional and state organizations and NGOs on various environmental, socio-economic and justice related issues.

The Department is located next to the university Library, with its collections of geo-science journals and texts. Departmental facilities include the Digital Geography Laboratory (DGL), a geo-computing facility an extensive collection of mapping and analytical software. The DGL is regarded as one of the best academic geography-based computer labs in New England.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System.

UNDERGRADUATE: Information on applications may be obtained from: <https://www.salemstate.edu/admissions-and-aid/undergraduate-admissions/applicants/first-year-applicants> or The Admissions Office, Salem State University, Salem, MA 01970, (978) 542-6200. S.A.T. Scores are required.

GRADUATE: Information on applications may be obtained from: <https://www.salemstate.edu/graduate/admissions> or The Division of Graduate Education, Salem State University, Salem, MA 01970, (978) 542-6300 GRE Scores are required.

FINANCIAL AID: Information on Financial may be found at: <https://www.salemstate.edu/finaid> or Financial Aid Department, Salem State University, Salem, MA 01970, (978) 542-6112.

Financial aid includes .E.O.G., Pell Grant, College Work-Study, Massachusetts State Scholarships, National Direct Student Loan, Massachusetts Tuition Waiver Program, Guaranteed Student Loan Program, Presidential Scholars, Alumni Scholarship awards. Graduate Assistantships are available.

FACULTY:

Ana Emlinger, Ph.D., University of Massachusetts, 2016 – Assistant Professor — urban and regional planning, sustainability, Brazil

William L. Hamilton, Ph.D., Oregon State, 1980, Professor — computer assisted cartography, quantitative methods, GIS, oceanography and meteorology

John T. Hayes, Ph.D., UCLA, 1986, Associate Professor — climatology, global change, physical, environmental impact assessment, resource management

Noel Healy, Ph.D., NUI, Galway, Ireland, 2010, Associate Professor — climate and energy justice, climate politics, energy transition, sustainability, sustainable tourism

Lorri K. Krebs, Ph.D., Waterloo, 2004, Professor — tourism development, economic development, resource management, Latin America, Canada

Marcos Luna, Ph.D., University of Delaware, 2007, Professor — sustainability, resource management, environmental justice, GIS

Stephen Matchak, Ph.D., North Carolina at Chapel Hill, 1982, Professor — tourism, cultural, landscape, New England

Keith A. Ratner, Ph.D., Denver, 2000, Professor — urban and regional planning, GIS, United States, transportation

Steven Silvern, Ph.D., Wisconsin at Madison, 1995, Professor — sustainability, Native Americans, environmental justice, political geography

Stephen S. Young, Ph.D., Clark, 1997, Professor — biogeography, remote sensing, physical, Asia

PART-TIME FACULTY:

Brian Baldwin, Urban and Regional Planning, University of New Orleans — GIS, Urban Planning

Brian Cacchiotti M.S. University of Minnesota — meteorology, wind power

Carolyn Damato, M.S. Geography, Indiana University of Pennsylvania, 2008 — Urban Planning, Crime and geography

Arthur A. Francis, B.S., Salem State, 1979, Lab Meteorologist

Sheila Gibbons, M.A. University of Maryland, Environmental Policy — environmental perception, geographic education, human-environmental interaction

Joseph Occhipini, M.S. McGill University, Geography — world regions, climate change, geospatial technology

Jeffrey Pearlman

Alyssa Rosemartin, M.S. Arizona State University — ecology, climate change

Jacob Silvera, M.S. Environmental Studies, University of Massachusetts, Lowell — forecasting, meteorology, air pollution

Craig Thomas, PhD, Arizona State University — climate change, sustainability, environmental history

STAFF:

Kym Pappathanasi, B.A., Vermont, 1991, Systems Manager — Digital Geography Laboratory

EMERITUS FACULTY:

Richard T. Anderson, Ed.D., Boston, 1983, Professor — economic, marketing, geographic education, world regions

Laurence E. Goss, Jr., Ph.D., Washington at Seattle, 1973, Professor — urban and regional planning, tourism development, Europe

Theodore S. Pikora, Ph.D., Boston, 1973, Professor — recreation, tourism, research methods

WESTFIELD STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY, PLANNING & SUSTAINABILITY

DATE FOUNDED: 1981

DEGREES OFFERED: Undergraduate minors in Applied Geography, GIS, Regional Planning, Ethics and Policy, Commercial Recreation and Tourism; undergraduate degree in Regional Planning

GRANTED 9/2018 to 8/2019: Majors 25 in Regional Planning

STUDENTS IN RESIDENCE: 58 minors, 50 undergraduate Regional Planning majors

CHAIR: Robert S. Bristow

DEPARTMENT ADMINISTRATIVE ASSISTANT:
Lynelle Kuzontkoski

FOR FURTHER INFORMATION CONTACT: Geography, Planning & Sustainability (GPS) Westfield State University, 577 Western Avenue, Westfield, MA 01086. Telephone 413-572-8315. Fax 413-572-5470. Email lkuzontkoski@westfield.ma.edu. Internet <http://www.westfield.ma.edu/garp>. The Friends of GPS Facebook Group provide a social media presence.

PROGRAMS AND RESEARCH FACILITIES:

The Geography and Regional Planning Department of WSU offers introductory undergraduate courses in world regional, cultural, and physical geography, along with a full Bachelor of Science in Regional Planning curriculum. Upper level electives are offered in transportation geography, recreation and tourism planning, political ecology, sustainable energy, and climate change. GIS courses include Introductory and Advanced GIS, Web Based GIS, Geoprocessing and remote sensing. A GIS certificate program includes coursework in GIS, software management, remote sensing, and quantitative methods. Internships in GIS and Regional Planning are available. Undergraduate minors are offered in Applied Geography, GIS, and an interdisciplinary Commercial Recreation and Tourism.

The GPS Department has excellent facilities and equipment. A GIS lab with 20 stations is equipped with contemporary GIS, Remote Sensing, and Statistical Analysis software and is linked to large-format color printers. GPS equipment is available for class work as well as student and faculty research. A laptop cart provides mobile technology for instruction and a set of 20 Android tablets with data plans provide additional tools for classes and research such as quantitative methods, data collection and analysis in addition to the varied GIS and Remote Sensing experiences offered. We also host Liquid Galaxy, an immersive Google Earth experience for all students and visitors.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

The University uses a semester system. Students may enroll full or part time and courses are available both on campus and online. Freshman applicants must meet the minimum eligibility requirements (a sliding scale based on a recalculated high school cumulative grade point average and SAT and/or ACT scores), established by Department of Higher Education (DHE) in order to qualify for admission to a state university. Further information is available at <http://www.westfield.ma.edu/admissions>. Financial aid is available as need-based and merit-based scholarships.

GEOGRAPHY AND REGIONAL PLANNING FACULTY:

Carsten Braun, Ph.D., UMass - Amherst, 2006, Associate Professor — Physical Geography, Geographic Information Systems, Climate Change, Sustainable Energy

Robert S. Bristow, Ph.D., Southern Illinois University, 1990, Professor — Physical Geography, Quantitative Methods, Site Planning Studio, Tourism Planning

Brian W. Conz, Ph.D., UMass - Amherst, 2006, Associate Professor & Department Chair — Physical Geography, Political Ecology, Environmental Analysis, Central America

Alina Gross, Ph.D., UMass-Amherst, 2014, Assistant Professor — Community Planning, Urban Redevelopment, Housing

Timothy LeDoux, Ph.D., Michigan State University, 2013, Assistant Professor and Campus GIS Coordinator — Geographic Information Systems, Remote Sensing, Sustainable Foods

Karl Leiker, Ph.D., Penn State, 1976, Professor — Physical Geography, Meteorology, Severe and Unusual Weather

Dristi Neog, Ph.D., Florida State University, 2009, Assistant Professor — Community Planning, Transportation, GIS, World Regional Geography

Samuel Ndegeah, Ph.D., University of Idaho, 2015, Assistant Professor — World Regional Geography, Cultural Geography, Urban and Regional Planning, Cities of the Global South, Sub-Saharan Africa

EMERITUS FACULTY:

William Bennett, Ph.D.

Stephanie Kelly, Ed.D.

George Psychas, Ed.D.

Marijoan Bull, Ph.D.

WORCESTER STATE UNIVERSITY

DEPARTMENT OF EARTH, ENVIRONMENT AND PHYSICS

DEGREES OFFERED: B.S. in Geography, B.S. in Environmental Science

GRANTED 2017: 15 (6 in Geography)

MAJORS: Geography: 41; Environmental Science: 62

CHAIR: William Hansen

FOR CATALOG INFORMATION WRITE TO: Department Secretary, Department of Earth, Environment and Physics, Worcester State University, 486 Chandler Street, Worcester, MA 01602. Telephone: 508-929-8583, E-mail: whansen@worcester.edu; Internet: <https://catalog.worcester.edu/undergraduate/school-education-health-natural-sciences/geography-earth-sciences/>

PROGRAMS AND RESEARCH FACILITIES: The Department of Earth, Environment and Physics offers a B.S. degree in Geography. Students concentrate in earth systems science, environmental studies, GIS or earth science education. The department also offers a B.S. in Environmental Science, an interdisciplinary degree emphasizing earth sciences, biology and chemistry. Our hybrid department includes four physicists who offer a minor in Physics. The department is housed in the college's science building; facilities include a GIS lab and two small physical geography labs.

GEOGRAPHY FACULTY:

Patricia A. Benjamin, Ph.D., Clark University, 2002, Associate Professor — human dimensions of environmental change, cultural/political ecology, Africa, North America

Timothy L. Cook, Ph.D., University of Massachusetts, 2009, Associate Professor — sedimentary processes, Quaternary environmental change

Allison L. Dunn, Ph.D., Harvard University, 2006, Professor — atmospheric science, physical geography

William J. Hansen, Ph.D., City University of New York, 2002, Professor — GIS, remote sensing, cartography, environmental resource management
Douglas E. Kowalewski, Ph.D., Boston University, 2009, Associate Professor — geomorphology, climate modeling, glaciology
Nabin K. Malakar, Ph.D., University at Albany, State University of New York (SUNY) 2015 — Physic, remote sensing, environmental data analytics
Alexander R. Tarr Ph.D., University of California, Berkley, 2016, Assistant Professor — Urban Geography, Food Politics, Critical GIS, Social & Racial Justice

MICHIGAN

CENTRAL MICHIGAN UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1901

DEGREES OFFERED: B.A., B.S., M.S. (Geographic Information Science)

GRANTED 2016-2017: 24 Bachelors, 5 Masters

MAJORS: 76

CHAIR: Mark Francek (Interim)

DEPARTMENT ADMINISTRATIVE ASST: Nancy L. Bauer

GRADUATE COORDINATOR: Brian Becker

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Brian Becker, Department of Geography, Central Michigan University, 296A Dow Science Bldg., Mt. Pleasant, Michigan 48859. Telephone (989) 774-3323. Fax (989) 774-2907. Email: becke1b@cmich.edu. Web: www.geo.cmich.edu.

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE: The Department offers majors and minors in Geography and a major in Environmental Studies. A Geography major can pursue a specialization in one of the two concentrations: Geographic Information Sciences (GISci) and Environmental and Land Use Planning. Minors exist for Geography and Geographic Information Sciences. The department also has a long standing teacher preparation program.

GRADUATE: The department offers an MS in Geographic Information Science. Thesis and non-thesis plans are available. An accelerated M.S. program is available for undergraduate seniors with exceptional academic qualification. Students can concentrate their studies in GIS, Remote Sensing, Cartography, and/or an application area in Geography or related disciplines. The department also participates in the interdisciplinary Graduate Certificate Program in Data Mining. The graduate curriculum prepares students for professional careers in public and private sectors as well as for entering Ph.D. programs. Faculty research focuses include: geographic information services, wetland remote sensing, cartographic design, spatial cognition, environmental modeling, land use analysis, spatial statistics, transportation, China, and Latin America.

The department manages two instructional laboratories with state-of-the-art computers and specialized peripheral devices as well as extensive series of advanced GPS and surveying equipment from Trimble and Sokkia. The department maintains a wide range of leading professional software in GIS, Remote Sensing, statistics, and graphic design. Two Citrix metaframe servers allow easy access to application software through the Web. The soils/hydrology laboratory

facilitates physical and chemical analysis. The department is home to the Michigan Geographic Alliance and the Center for Geographic Information Science, which provides additional resources for research and learning.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Central Michigan University is on the semester plan. Admission requirements are available on the university web site www.cmich.edu, or from the Director of Admissions, 100 Warriner Hall. Financial aid information may be obtained from the Director of Financial Aid, 220 Warriner Hall, Central Michigan University, Mount Pleasant, Michigan 48859. The Department offers the Thornthwaite, Olmstead, and Calkins, and student travel Scholarship Awards.

GRADUATE: Admission to the graduate program requires applicants to (1) hold a bachelor's degree from an accredited college or university, (2) maintain at least a B average during the last 2 undergraduate years, (3) submit GRE scores, (4) submit 2 letters of recommendation, and (5) send application to the College of Graduate Studies at CMU. Foreign students whose native language is not English must submit TOEFL scores or results of equivalent standard tests. Graduate assistantships include a 10-month stipend as well as waiver of 20 hours of tuition per year. Additional financial support is available through research assistantships and university fellowships.

FACULTY:

Barbara J. Andersen, Ph.D., University of Idaho, 2017, Lecturer — urban and regional planning, environmental geography, landscape history, alternative transportation
Brian L. Becker, Ph.D., Michigan State University, 2002, Professor and Graduate Coordinator — remote sensing, Great Lakes wetland ecology, environmental studies, GIS, CAD, GPS
Jorge A. Brea, Ph.D., Ohio State University, 1986, Associate Professor — population, Latin America, Third World development, urban geography
Anthony Feig, Ed.D., University of Texas at El Paso, 2004, Associate Professor — earth science education, ecoliteracy, environmental education policy analysis, accessibility & disability in STEM
Mark Francek, Ph.D., University of Wisconsin-Milwaukee, 1988, Professor and Interim Chair — earth science education, soils, physical geography
Marcello Graziano, PhD, University of Connecticut 2014, Assistant Professor & Member of The Institute for Great Lakes Research — economic geography, regional studies/regional sciences, energy geography, blue economy, mixed-methods, participatory economic development.
Benjamin Heumann, Ph.D., University of North Carolina at Chapel Hill, 2011, Assistant Professor and Director of CMU Center for Geographic Information Science — remote sensing, GIS, biogeography, landscape ecology, ecological modeling, wetlands
Stacey Kerr, PhD, University of Georgia, 2016, Assistant Professor — geography education, gender geography, cultural geography, qualitative research
Austin Jena Krause, M.S., University of Wisconsin-Madison, 2010, Lecturer — physical geography, environmental geography, geomorphology, hydrology, natural resources
Bin Li, Ph.D., Syracuse, 1993, Professor — GIS, cartography, spatial statistics, economic geography, China
Michael J. Libbee, Ph.D., Syracuse, 1975, Professor and Co-coordinator of the Michigan Geographic Alliance — geographic education, teacher preparation, human geography
Matthew Liesch, Ph.D., Wisconsin, 2011, Assistant Professor — cultural geography, vernacular landscapes, qualitative methods, environmental history, Great Lakes
M. David Meyer, Ph.D. Indiana State University, 1999, Lecturer — food and agriculture, Latin America, economic geography, cultural geography

David K. Patton, Ph.D., University of South Carolina, 1995, Professor and Acting Associate Dean — cartography, geographic visualization, GIS, urban planning

James A. Pytko, M.S., Central Michigan, 2009, Lecturer — physical geography, geographic information science

Yong Q. Tian, Ph.D., 1995, Waikato, New Zealand, Professor — geocomputation, land-water dynamics, environmental modeling, coastal ecology

XiaoGuang Wang, Ph.D., University of Michigan, 2009, Associate Professor — urban and regional planning, transportation and land use, GPS, GIS

Liann Yates, M.S.E.S., Indiana University, 1996, Lecturer — environmental science, physical geography, water resources

Tao Zheng, Ph.D. University of Maryland, 2007, Associate Professor — atmospheric physics and chemistry modeling, data assimilation, and remote sensing

AFFILIATED:

Philip J. Gersmehl, Ph.D., University of Georgia, 1970, Research Scientist — spatial cognition, geography education

Marty Mater, B.A., Ohio University, Teacher Consultant, Michigan Geographic Alliance

EASTERN MICHIGAN UNIVERSITY

DEPARTMENT OF GEOGRAPHY & GEOLOGY

DATE FOUNDED: 1903

GRADUATE PROGRAM FOUNDED: 1927

DEGREES OFFERED: B.A., B.S., M.S.

STUDENTS IN RESIDENCE: 135 Undergraduate; 64

Graduate

GRANTED 5/30/17-05/15/18: 36 Bachelors; 37 Masters;

Certificates 1

HEAD: Rick Sambrook

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography & Geology, Eastern Michigan University, Ypsilanti, Michigan 48197. Telephone (734) 487-0218 or FAX (734) 487-6979. E-mail: rsambroo@emich.edu. World Wide Web: <http://www.emich.edu/geo/>

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography & Geology concentrates on the study of physical landscapes, their origins and the processes that alter them; the imprint of human activity on the earth's surface; the complex relationships among places; and the application of technology to human resource identification, conservation, and management. The department offers programs leading to the degree of Bachelor of Science/Bachelor of Arts degree with majors in EARTH SCIENCE AND EARTH SCIENCE TEACHING; GEOLOGY (including an optional concentration in hydrology); GEOGRAPHY (including an optional tourism concentration); GEOGRAPHY TEACHING; and URBAN AND REGIONAL PLANNING. Minors are offered in these fields, as well as in Geographic Information Systems, GIS and Remote Sensing, Environmental Analysis, and Historic Preservation.

Master of Science programs are offered in EARTH SCIENCE EDUCATION, GEOGRAPHIC INFORMATION SYSTEMS, URBAN PLANNING, and HISTORIC PRESERVATION. Our HISTORIC PRESERVATION graduate program, which celebrated its 30th Anniversary in 2009, is considered the largest and most comprehensive in the country. A geographic information systems and computer mapping facility is available to meet instructional and research needs. The department maintains close affiliation with the Institute for Geographic Research and Education, a research and

outreach center that provides opportunities for students and faculty to apply geographic knowledge to the practical needs of communities and agencies throughout Michigan and the Great Lakes region. Four student groups are associated with department programs: the Geo-Club; Preservation Eastern, the Planning Awareness Club of Eastern (PLACE) and the Travel and Tourism Student Association.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

ACADEMIC PLAN: the semester system.

UNDERGRADUATE: 1) High School diploma or equivalent, 2) meet general university admission requirements, 3) submission of ACT or SAT test scores.

GRADUATE: 1) a bachelor's degree from an accredited institution, 2) meet Graduate School requirements, 3) have attained a 2.75 GPA.

FINANCIAL AID: Numerous scholarship, grant, and loan opportunities are administered through the university's Office of Financial Aid. The department awards approximately fifteen graduate assistantships that are available for up to two years of study. Assistantships carry a tuition waiver and monthly stipend. The department also annually awards several scholarships based on grades, activities, and needs. Awards generally range from \$500 to \$1,000.

FACULTY:

Dan Bonenberger, A.B.D., West Virginia University, 2008, Associate Professor — historic preservation, heritage interpretation

Michael Bradley, Ph.D., Utah, 1988, Professor — structural geology, petrology, petroleum geology

Nancy Bryk, M.A., Michigan, 1980, M.B.A. Michigan, 2007, Associate Professor — American culture, heritage and historic interpretation, preservation and tourism, historical administration, museum studies

Christine Clark, Ph.D. University of Manitoba, 2002, Professor — mineralogy, petrology, pegmatology, environmental mineralogy

Matthew R. Cook, Ph.D. University of Tennessee Knoxville, 2016, Assistant Professor — Cultural/Historical Geography, historic interpretation, memory studies, race and racial justice. American South, critical pedagogy

Christopher A. Gellasch, Ph.D., University of Wisconsin – Madison, 2012, Assistant Professor — Hydrogeology, Hydrology, Hydromechanical Modelling.

Robert Jones, PhD, Portland State University, 1999, Professor — planning, urban geography, historic preservation

Heather Khan-Welsh, Ph.D., Florida State University, 2008, Associate Professor — economic and community development, urban policy and politics, urban public finance, growth management, regional planning

Tom Kovacs, Ph.D., Penn State, 2000, Professor — meteorology, Interdisciplinary Environmental Science & Society (IESS) program

Theodore Ligibel, Ph.D., Bowling Green (Ohio), 1994, Professor — cultural geography, historic preservation, cultural tourism

Steve LoDuca, Ph.D., Rochester, 1990, Professor — paleontology, sedimentology, stratigraphy

Zachary Moore, Ph.D., Texas State University, 2008, Associate Professor — K-16 geographic education, cultural/human geography, social justice issues, environmental geography, historical geography

John Oswald, Ph.D., University of Texas at Austin, 2013, Assistant Professor — community and regional planning, human-environment interaction, urban-political geographic analysis of divided cities and societies

M. Serena Poli, University of Padova (Italy), 1995, Professor — oceanography, micropaleontology, paleoclimatology

Eric W. Portenga, Ph.D., University of Glasgow, UK & Macquarie University, Australia, 2015, Assistant Professor — Fluvial Geomorphology, Landscape Evolution, Human-landscape interactions, Glacial Geomorphology, Cosmogenic nuclides, Geoarchaeology, Geochronology.

Richard A. Sambrook, Ph.D., Michigan State University, 1992, Professor & Head — Latin America, regional economic development, geotourism

Hugh Semple, Ph.D., 1997, University of Manitoba, Professor — cartography, cultural geography, geographic information systems,

William F. Welsh, Ph.D., University of North Carolina-Chapel Hill, 2001, Professor — GIS, remote sensing, environmental geography

Xining Yang, Ph.D. Ohio State University, 2015, Assistant Professor — GIS, Geospatial Big Data Analytic, Quantitative Methods in Geography, Geovisualization, Health Geography.

Yichun Xie, Ph.D., Buffalo, 1994, Professor — geographic information systems, physical geography, urban and regional planning

LECTURERS:

Kelly Victor-Burke, M.S., Eastern Michigan University, 1989, Lecturer III — geography, geotourism, tourism geography, Russia and the former Soviet Union

EMERITUS FACULTY:

Michael Kasenow, Ph.D., Western Michigan, 1994, Professor — hydrology, science education

Andrew A. Nazzaro, Ph.D., Michigan State, 1974, Professor — cultural geography, Africa, medical, international development

Norman Tyler, Ph.D. Architecture, 1987, University of Michigan, Professor — urban and regional planning, historic preservation

GRAND RAPIDS COMMUNITY COLLEGE

DEPARTMENT OF SOCIAL SCIENCES

DEGREES OFFERED: A.A., A.S.

GEOGRAPHY MAJORS: 7

DEPARTMENT EDUCATIONAL SUPPORT

PROFESSIONAL: Stacey Herrick

FOR INFORMATION WRITE TO: Dr. M.S. DeVivo, Social Sciences Department, Grand Rapids Community College, 143 Bostwick NE, Grand Rapids, MI, 49503. E-Mail: mdevivo@grcc.edu.

Program: The Geography program at Grand Rapids Community College (GRCC) seeks to achieve excellence by integrating a rich and challenging curriculum with field studies in the U.S. and abroad, while also making substantive contributions to geographical research. Seven undergraduate courses are listed in the curriculum, and three of them are currently offered online as writing intensive courses to students across the globe: *World Regional Geography*, *Cultural Geography*, and the *Regional Geography of the U.S. and Canada*. Additionally, the *Physical Geography* course is designated as a lab science, and it is offered in a hybrid format every academic semester. GRCC Geography majors are expected to make presentations at academic conferences, and several have received scholarships and awards for field studies, as well as completion of the baccalaureate and conference participation. Over the past decade, GRCC students have represented the institution's Geography program at the annual meetings of the California Geographical Society in addition to regional and national meetings of the American Association of Geographers. In recent years, students have conducted fieldwork throughout the U.S., Latin America, and Sub-Saharan Africa. Alumni have been successful in gaining funding to pursue M.A. and Ph.D.

degrees in geography and urban affairs at a number of graduate programs including: Syracuse University, the University of Missouri, the University of Texas, the University of Maryland, Ohio University, Kent State University, Rutgers University, Cleveland State University, and Western Michigan University.

As GRCC is an institutional member of the World Affairs Council of Western Michigan, which is devoted to educating leaders in higher education and international business on matters pertaining to global affairs, the geography program plays a critical role. GRCC is also home to the Lambda Upsilon chapter of Gamma Theta Upsilon, which was distinguished with the award of *Honors* in 2013 and 2016. This GRCC chapter of the International Geographical Honor Society remains devoted to raising funds for the education of girls in Sub-Saharan Africa, while also advancing social justice in the local community and contributing to geographical scholarship. Honorary GTU membership was awarded by Lambda Upsilon to *New York Times* columnist Nicholas Kristof in 2011. Annually, a geographer of distinction is invited to deliver a lecture, which is sponsored by the Visiting Geographical Scientist Program (VGSP). VGSP distinguished speakers are among those interviewed for the *Conversation with a Geographer* oral history series, which is broadcast on GRCC TV and available for viewing on YouTube.

Among the scholarships and awards presented by the Geography program is the *GRCC Geography Field Cap*, which is awarded to stellar graduates of the program, as well as those that have contributed to the advancement of Geography through fieldwork, exploration, research, teaching, publication, or exemplary service. In addition to selected alumni, all VGSP distinguished speakers are presented with this award; other recipients include: Nicholas Kristof, Niem Huynh, Alicia Decker, Richard Leakey, Anne Bonds, Courtney Gallaher, Jessie Clark, Jerome Dobson, and Lee Schwartz.

VGSP Distinguished Speakers:

2009 Leon Yacher
2010 Marie Price
2011 Leon Yacher
2012 Kate Swanson
2013 Rebecca Sheehan
2014 Caroline Faria
2015 Marie Price
2016 Maria Fadiman
2017 Karen Culcasi
2018 Jonnell Robinson

Geography Faculty:

M. S. DeVivo, Professor — leadership, history of geography, historical geography, geopolitics, African wildlife conservation and community development

GRAND VALLEY STATE UNIVERSITY

DEPARTMENT GEOGRAPHY AND SUSTAINABLE PLANNING

DATE FOUNDED: 2000

DEGREES OFFERED: B.A. in Geography; B.S. in Geography

GRANTED 9/1/17-8/15/18: 18

MAJORS: 62

CHAIR: Dr. Elena Lioubimtseva

DEPARTMENT ADMINISTRATIVE ASSISTANT:

Ms. Amanda Reader

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography and Planning, B-4-105 Mackinac, 1 Campus Drive, Allendale, MI 49401. Telephone (616) 331-3065. Fax (616) 331 8635. E-mail: gpydept@gvsu.edu. Web: www.gvsu.edu/geography.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and Sustainable Planning at Grand Valley State University offers B.A. and B.S. degrees in Geography with four distinctive tracks:

- Geography with emphasis in Geospatial Technology
- Geography with emphasis in Urban and Regional Planning
- Geography with emphasis in Environment and Global Development
- Geography with emphasis in Climate Change Mitigation, Adaptation and resiliency Planning

The department also offers minors in Geospatial Technology, Sustainable Urban and Regional Planning, and the Geography Education at the secondary level, and undergraduate certification programs in GIS Science and Technology and Sustainable Urban and Regional Planning.

The Department offers a wide selection of geography and urban and regional planning courses. Particular strengths include geospatial technology, global and regional development, environmental geography, and urban planning. The relatively small size of the department allows for very close interaction between faculty and students, and the possibility to build customized programs around students' specific interests.

Geography and Sustainable Planning is housed in LEED-certified Mackinac Hall, located GVSU main campus in Allendale, MI, a short drive between the Lake Michigan shore and vibrant Grand Rapids downtown, offering excellent opportunities for field research in the nearby state and nature centers as well as urban educational, research, and community engagement opportunities in Grand Rapids, Holland, Muskegon, and Lansing. Supplementing coursework are a state-of-the-art computer laboratory with GIS and remote sensing applications (ArcGIS with extensions, TerrSet, Erdas Imagine, Ecognition, ATCOR), MATLAB, MAGICC/SENGEN climate modeling software, field and laboratory equipment, three digital weather stations, Trimble GPS base station and receivers and excellent library resources.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Grand Valley State University operates on the semester system. Admission information is available at www.gvsu.edu/admissions. The focus of the geography major is on developing well-rounded graduates in the discipline who have a specialization or particular area of interest within the major. The requirements for the major in geography and planning comprise the completion of the general education program requirements and at least 36 semester credits in geography and planning with a minimum GPA of 2.0. Information about financial aid, scholarships and employment opportunities for students is available at www.gvsu.edu/financialaid/.

The geography major requirements include 12 credits of required courses and the remainder of upper-level geography electives, as well as the University requirements for a B.A. or B.S. degree. The department offers a wide range of upper level courses focused on GIS, remote sensing and image processing, global and regional development, environmental geography, urban and regional planning, paid and unpaid internships, as well as study abroad programs, including an intensive faculty-led summer school in sustainable urban and regional planning in the Netherlands and a field research class in Peru.

FULL-TIME FACULTY:

Roy Cole, Ph.D., Michigan State University, 1991, Professor — global development, Africa, Middle East, land-use/land cover change.

Chad P. Frederick, Ph.D., University of Louisville, 2016, Assistant Professor — urban and regional planning, urban sustainability, transportation planning, multimodality

Elena Lioubimtseva, Ph.D., Moscow State University, 1994, Professor — climate change, human vulnerability and adaptations, arid environments, Russia and Central Asia

Kin Ma, Ph.D., Michigan State University, 2007, Assistant Professor — physical geography, cartography, remote sensing, global change, GIS, East Asia

James Penn, Ph.D., University of Florida, 2004, Associate Professor — Latin America, Amazon, development and globalization, agriculture, forestry

Wanxiao Sun, Ph.D., Johannes Gutenberg University of Mainz, 1999, Associate Professor — remote sensing, digital image processing, advanced GIS.

Jeroen Wagendorp, Ph.D., AICP, GISP, University of Oklahoma, 1989, Associate Professor — public sector GIS institutionalization, Western Europe, the Netherlands

Yanning Wei, Ph.D., University of Washington, 2016, Visiting Professor — GIS, computer cartography, urban and regional planning, China.

Gang Xu, Ph.D., Johannes Gutenberg University of Mainz, 1996, Associate Professor — economic geography, GIS applications for business decisions, urbanization, China.

ADJUNCT FACULTY:

Michael Gutowski, M.A., Western Michigan University, 2008 — regional geography, physical geography

Steven Stepek, M.P.A., Grand Valley State University, 2006, AICP — Transportation Planning

Judith Transue, MA., Northwestern University, 1966, MSW., University of Michigan, 1972, MA., Michigan State University, 2000 — regional planning, housing and community organizing

Jonathan Wessell, A.B.D. Walden University, MA, Western Michigan University, 1997 — Regional Geography, Cultural Geography

MICHIGAN STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY, ENVIRONMENT, AND SPATIAL SCIENCES

DATE FOUNDED: 1955

GRADUATE PROGRAM FOUNDED: 1952

DEGREES OFFERED: BA, BS, MS, and PhD

GRANTED 9/2/17-8/18/18: 28 Bachelors, 2 Masters, 5 PhD

STUDENTS IN RESIDENCE: 77 Majors, 12 Masters, 42 PhD

NOT IN RESIDENCE: 1 Masters, 3 PhD

CHAIR: Alan F. Arbogast

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Alan F. Arbogast, Chair, Department of Geography, Environment, and Spatial Sciences, Michigan State University, Geography Building, 673 Auditorium Rd, Rm 116, East Lansing, Michigan 48824. Telephone (517) 355-4649. Fax (517) 432-1671. E-mail: geo@msu.edu. Internet: www.geo.msu.edu.

GRADUATE PROGRAMS AND RESEARCH FACILITIES:

Graduate programs are designed to give various levels of professional competence in the theory, substance, methodology, and tools of geography. Systematic fields of emphasis are physical geography; GIScience and remote sensing; economic geography; and regional development, with other programs possible. Faculty research and travel give regional strength in Africa, Latin America, East Asia, and

the United States. Strong supporting fields include the social sciences, climatology, soils, geomorphology, planning, epidemiology, forestry, resource development, recreation, and tourism. Research is facilitated by the African, Asian, and Latin American Studies Centers. The MSU library contains over 5 million volumes and a map library. Department facilities include Linux and Windows computer laboratories and modern soils laboratories. There is easy access to the department's Remote Sensing and GIS Research and Outreach Services, the Center for Global Change and Earth Observations, the Global Urban Studies Program, and the Office of the State Climatologist and Michigan Meteorological Resources Program.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: *Academic Plan* semester system. *Admission requirements for B.A. or B.S.* admission to university and acceptable academic standing. Degree requirements include 120 semester credit hours including 30 semester hours in geography. Internships available.

GRADUATE: *Academic Plan* semester system. *Admission guidelines for M.S.* completion of an undergraduate degree with a 3.4 average for the last two academic years and satisfactory GREs; any qualified student is encouraged to apply. *Ph.D.* completion of a masters degree with thesis or equivalent, satisfactory grade-point average and GREs. Teaching assistantships, university scholarships, research assistantships, M.S.U. Graduate Office Fellowships, and other awards are available. Women and minorities are encouraged to apply. Monthly half-time stipends start at ~ \$1,500 (plus nine credits of tuition per semester and health insurance). Deadline for applications is December 31 for financial aid the following autumn. Early application is helpful

GEOGRAPHY FACULTY:

Jeffrey A. Andresen, PhD, Purdue, 1987, Professor — agricultural meteorology/climatology
 Alan F. Arbogast, PhD, Kansas, 1995, Professor and Chairperson — Quaternary geomorphology, paleo-environments, physical
 Guo Chen, PhD, Penn State, 2007, Associate Professor — urban, China
 Jiquan Chen, PhD, Washington, 1991, Professor — Coupled human/natural systems, ecosystem analysis, forest ecology, remote sensing
 Kyla Dahlin, PhD, Stanford 2012, Assistant Professor — plant ecology, remote sensing
 Joe T. Darden, PhD, Pittsburgh, 1972, Professor — urban, social-cultural, U.S.
 Kyle Evered, PhD, Oregon, 2002, Associate Professor — cultural, political, Middle East
 Andrew Finley, PhD, Minnesota, 2007, Associate Professor — forestry, quantitative modeling
 Sue C. Grady, PhD, CUNY, 2005, Associate Professor — medical, GIS, population
 Arika Ligmann-Zielinska, PhD, San Diego/UC-Santa Barbara, 2008, Associate Professor — environmental and social modeling
 Lifeng Luo, PhD, Rutgers, 2003, Associate Professor — climate, meteorology, climate change
 Elizabeth A. Mack — PhD, Indiana, 2010, Assistant Professor — economic development, telecommunications policy, entrepreneurship
 Joseph Messina, PhD, North Carolina, 2001, Professor — global environmental change, GIS
 Nathan Moore, PhD, Duke, 2004, Associate Professor — land-atmosphere interactions, regional climate modeling, land use/land cover dynamics
 Emilio Moran, PhD, Florida, Professor — Latin America, human-environment interactions, tropical agriculture, land use
 Amber L. Pearson, PhD, Washington, 2010, Assistant Professor — Epidemiology, health geography
 Jiaguo Qi, PhD, Arizona, 1993, Professor — remote sensing, optical and microwave sensors, process-oriented models

Randall J. Schaetzl, PhD, Illinois, 1987, Professor — soil geomorphology, plant geography, Quaternary studies, physical
 Ashton Shortridge, PhD, UC-Santa Barbara, 2000, Professor — GIS
 Igor Vojnovic, PhD, Toronto, 1997, Professor — urban, economic
 Raechel A. White, PhD, Penn State, 2014, Assistant Professor — Cognitive GIScience, geovisualization, remote sensing
 Julie A. Winkler, PhD, Minnesota, 1982, Professor — synoptic climatology, severe storms, physical geography
 Catherine Yansa, PhD, Wisconsin, 2002, Associate Professor — paleo-environments, physical
 Sharon Zhong, PhD, Iowa State, 1992, Professor — climate models
 Leo C. Zulu, PhD, Illinois, 2006, Associate Professor — Africa, GIS, remote sensing

ASSOCIATED FACULTY:

Juliegh Bookout, MA, Michigan State, 2006, Visiting Instructor — online instruction
 Erin Bunting, PhD, University of Florida, 2014, Assistant Professor — remote sensing, climate change, land systems science, savanna ecology, geographic information systems
 Peilei Fan, PhD, MIT, 2003, Adjunct Associate Professor — planning, China
 Grant E. Gunn PhD, University of Waterloo, 2015, Assistant Professor — remote sensing of lake & sea ice
 Sarah L. Hession PhD, Michigan State, 2011, Adjunct Assistant Professor — climate and global change analysis, environmental statistics, and health geography
 Robert K. Hitchcock, PhD, New Mexico, 1982, Adjunct Professor — human-environment interactions
 Andrew G. Huff, PhD, University of Minnesota, 2014, Adjunct Assistant Professor — spatial epidemiology, infectious disease forecasting, emerging infectious diseases
 Eva Kassens-Noor, PhD, MIT, 2009, Adjunct Associate Professor — planning, transportation
 William McConnell, PhD, Clark University 2000, Adjunct Associate Professor — sustainability, land use, land-cover change, Africa
 Frederick E. Nelson, PhD, University of Michigan, 1982, Adjunct Professor — polar regions, periglacial geomorphology
 Richard C. Sadler, PhD, University of Western Ontario, 2013, Adjunct Assistant Professor — urban geography, medical geography, GIS
 Gary Schnakenberg, PhD, Michigan State, 2013, Advisor/Instructor — human environment interactions
 Yi Shi, PhD, Michigan State, 2008, Assistant Professor — online instruction
 Morris O. Thomas, MA, Michigan State, 1969, Visiting Professor — U.S., world regional, physical
 Beth Weisenborn, MA, Michigan State, 2001, Outreach Specialist — online instruction

EMERITUS FACULTY:

Kenneth E. Corey, PhD, Cincinnati, 1969, Professor Emeritus
 Michael Chubb, PhD, Michigan State, 1967, Professor Emeritus
 Richard E. Groop, PhD, Kansas, 1976, Professor Emeritus
 David Lusch, PhD, Michigan State, 1982, Senior Specialist Emeritus
 Gary A. Manson, PhD, Washington, 1979, Professor Emeritus
 Assefa Mehretu, PhD, Johns Hopkins, 1969, Professor Emeritus
 Judy Olson, PhD, Wisconsin, 1979, Professor Emeritus
 Bruce Wm. Pigozzi, PhD, Indiana, 1979, Professor Emeritus
 Jack F. Williams, PhD, Hawaii, 1973, Professor Emeritus
 Robert I. Wittick, PhD, Iowa, 1972, Professor Emeritus

NORTHERN MICHIGAN UNIVERSITY

DEPARTMENT OF EARTH, ENVIRONMENTAL, AND GEOGRAPHICAL SCIENCES

DATE FOUNDED: 1905

DEGREES OFFERED: B.A., B.S.

GRANTED 9/1/16–8/31/17: 71 Bachelors

MAJORS: 287

CHAIR: Susy S. Ziegler (Head)

DEPARTMENT ADMINISTRATIVE ASST: Jana Nicholls

FOR FURTHER INFORMATION WRITE TO: Susy S. Ziegler, Head, Department of Earth, Environmental, and Geographical Sciences, 1401 Presque Isle Ave., Northern Michigan University, Marquette, Michigan 49855-5301. Telephone (906) 227-1104, Fax (906) 227-1621. E-mail: eegs@nmu.edu. Internet: www.nmu.edu/eegs. Facebook: <https://www.facebook.com/NMUEEGS/>.

PROGRAMS AND RESEARCH FACILITIES: The undergraduate program offers majors in Earth Science; Environmental Studies and Sustainability; Environmental Science; Geomatics; Secondary Education in Earth Science; Secondary Education in Geography. Each major is designed to prepare students for graduate education and employment in a wide range of environmental fields. The department also offers a certificate in geographic information systems. Housed in a modern science building, the university and department offer excellent library services, field courses, and laptops and software needed for coursework. Students may complete internships and study abroad experiences related to the majors. The department has a Geographic Information Systems/Remote Sensing Lab, research laboratories, and an on-campus Outdoor Learning Area.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system and summer program.

Admission Requirements:

<http://www.nmu.edu/bulletin1617/admission-requirements-and-application-procedures>.

Financial Aid: Scholarships, grants, loans, and work study.

FACULTY:

Michael J. Broadway, Ph.D., University of Illinois, 1983, Professor — human geography, social geography, food studies

Norma J. Froelich, Ph.D., Indiana University, 2009, Assistant Professor — climatology, physical geography, geographic research

Weronika Kusek, Ph.D., Kent State University, 2014, Assistant Professor — human geography, migration, population, international studies

Robert J. Legg, G.I.S.P., Ph.D., Trinity College Dublin, 2006, Associate Professor — GIS, cartography, quantitative methods

Megan McConville, Ph.D., University of Wisconsin-Madison, 2017, Assistant Professor — environmental chemistry, environmental science, water resources

Sarah Mittlefehldt, Ph.D., University of Wisconsin-Madison, 2004, Associate Professor — environmental history, environmental policy, environmental justice, sustainability

Robert S. Regis, Ph.D., Michigan Technological University, 1997, Professor — geology, glacial geology, groundwater/ hydrogeology, remote sensing

Matthew J. Van Grinsven, Ph.D., Michigan Technological University, 2015, Assistant Professor — physical geography, soils, hydrology, carbon cycling, biogeosciences

Susy S. Ziegler, Ph.D., University of Wisconsin-Madison, 1999, Associate Professor and Head — biogeography, physical geography, environmental science, geographic research

SAGINAW VALLEY STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 2008

DEGREES OFFERED: Bachelor of Arts, GIS Certificate.

Minors are available in Geospatial Techniques, General

Minor in Geography, and a Geography Minor for Teacher Certification

DEGREES GRANTED 9/1/16 – 8/31/17: 11

MAJORS: 33 Undergraduate Geography Majors

CHAIR: Frederick W. Sunderman III

PROGRAM ADMINISTRATIVE ASSISTANT: Lori Kranz

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, Gilbertson Hall North 150, Saginaw Valley State University, University Center, Michigan 48710. Telephone (989) 964-2769. E-mail: geography@svsu.edu. Internet: www.svsu.edu/geography

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography at Saginaw Valley State University offers undergraduate majors in Geography the opportunity to join faculty research projects in the areas of GIScience, Crime Mapping, Biogeography, Geomorphology, Cultural Geography, Urban Geography, Population Geography, Historical Geography and Remote Sensing. The department has a GIS/Remote Sensing laboratory, and physical geography laboratory equipment.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Admission to the undergraduate major program in Geography is the same as for admission to the College of Arts and Behavioral Sciences. In addition to the University Core Curriculum requirements, undergraduate majors are expected to take Introduction to Physical Geography, North American Regional Geography, World Cultural Geography, Geographic Information Systems, Research Methods in Geography, and Geographical Inquiry. 18 additional credit hours of geography electives are required for the major. Undergraduate majors are eligible for earning credit through internal and external internship programs, and study abroad experiences.

FACULTY:

Martin Arford, Ph.D., University of Tennessee, 2008, Professor — Environmental Science, Soil Science, Biogeography, Paleocology

Julie L. Commerford, Ph.D., Kansas State University, 2016, Visiting Assistant Professor — Biogeography, paleoenvironmental change, GIS

Sara Beth Keough, Ph.D., University of Tennessee, 2007, Professor — human/cultural geography, urban geography, Canada, West Africa, qualitative methods

Andrew Miller, Ph.D., University of Cincinnati, 2010, Associate Professor — GIScience, Natural Hazards, Crime Mapping

Rhett L. Mohler, Ph.D., Kansas State University, 2011, Associate Professor — remote sensing, land use/land cover change

Evelyn Ravuri, Ph.D., University of Cincinnati, 2001, Professor — Population Geography, Urban Geography, Economic Geography, Latin America

Frederick W. Sunderman III, Ph.D., Louisiana State University, 2001, Associate Professor — Environmental Historical Geography, North America, History of Geography

WESTERN MICHIGAN UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1905

GRADUATE PROGRAM FOUNDED: 1964

DEGREES OFFERED: B.S. Geography, B.S. Community & Regional Planning, B.A. Tourism & Travel, M.S. Geography, Graduate Certificate in Geographic Information Science, Graduate Certificate in Unmanned Aerial Vehicles (UAV) Applications. Minors: Geography and GIScience.

GRANTED 9/1/16-8/31/17: Bachelors: 24 in Geography, 3 in Community & Regional Planning, 13 in Tourism & Travel. Masters: 10, 2 Certificates

STUDENTS IN RESIDENCE: 110 Majors (69 in Geography, 30 in Tourism & Travel, 11 in Community & Regional Planning), 7 in GIScience Certificate, 20 Masters

CHAIR: Benjamin Ofori-Amoah

DEPARTMENT ADMINISTRATIVE ASST: Mary Lou Brooks

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography, 3244 Wood Hall, Western Michigan University, Kalamazoo, Michigan 49008-5424. Telephone (269) 387-3411. Fax (269) 387-3442. E-mail: ben.ofori@wmich.edu. Internet: www.wmich.edu/geography.

PROGRAMS AND RESEARCH FACILITIES: The Department offers a B.S. degree in Geography, a B.S. degree in Community and Regional Planning, a B. A. degree in Tourism and Travel, an M. S. degree in Geography, a Graduate Certificate in Geographic Information Science, and a Graduate Certificate in Unmanned Aerial Vehicles (UAV) Applications. In the B.S. Geography degree, students may opt for concentrations in general geography, environmental analysis and resource management, geographic information science, climate science, urban, regional, and environmental planning, and secondary education. The B.S. in Community and Regional Planning requires core courses in planning and other social science disciplines and an elective. The B. A. in Tourism and Travel major requires a minor in either business or modern languages. The M.S. degree program in Geography includes foundation courses as well as opportunity for specialization in some aspect of Applied Geography. Thirty hours of approved graduate credits must be completed, of which at least twenty hours should be in geography. Students take nine hours of core courses (Geographic Research, History and Philosophy of Geography, and Spatial Analysis). Subsequently they select at least a three-course concentration in one of three areas: Environmental and Resources Analysis, Community Development and Planning, Geographic Information Science. Individualized planned program is also possible. The Graduate Certificate in GIScience develops competencies in geographic information system, remote sensing, and spatial analysis for post baccalaureate students with no or limited GIScience background. It requires a minimum of 19 credits including core and elective courses. The Graduate Certificate in UAV develops competencies in UAV operations and applications in geography and the environment. It requires a minimum of 9 credits and is offered in a conjunction with Western Michigan University's College of Aviation and the Extended University Program, as online and hybrid program.

The Department has 6 computer laboratories for teaching/learning and research to support GIS, climatology/meteorology, remote sensing, urban and regional planning, and physical geography. Equipment includes state-of-the-art computer hardware and geographic and

statistical analysis software. The department operates the W.E. Upjohn Center for the Study of Geographical Change, which provides the academic community world class document, maps, photographs, and text preservation and digitalization. The center has the world's best equipment for large format scanning. The department also actively cooperates with the University's interdisciplinary Environmental Studies Program, the University's Health Data Research, Analysis and Mapping Center (HDRaM), University's Transportation Research Center for Livable Communities, and in the Michigan Geographic Alliance.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: The University operates on a semester system and 122 semester credit hours of acceptable course study in a planned curriculum are necessary to receive a degree. First year students must submit ACT scores and transfer students must provide transcripts from their institution for admission. Undergraduate scholarships, student employment and assistantships are available through the Department of Geography. Per the rules of the College of Arts & Sciences, all undergraduate geography and tourism and travel majors are required to take a minor outside of geography.

GRADUATE: Graduate courses are concentrated during the Fall and Spring semesters, although academic progress may be accelerated through independent study during the Summer I and II terms. Students with at least a 3.0 grade-point average (A=4.0) during the last four semesters of undergraduate work are eligible for admission to the program. Students make general application for admission thorough the Admission Office online site. Teaching and Research Assistantships for the academic year (September-April) are available. All applicants to MS program are automatically considered for financial assistantship. Graduate assistants are provided office space, as are other graduate students insofar as possible.

FACULTY:

Kathleen Baker, Ph.D., Michigan State, 2002, Professor, Director, W.E. Upjohn Center for the Study of Geographical Change and HDRaM — geographic information science, physical geography, geospatial techniques, spatial analysis, and agricultural and biogeography

Lisa DeChano-Cook, Ph.D., Southwest Texas, 2000, Associate Professor — environmental geography, physical geography, hazards, environmental impacts, sports geography, space studies, general physics

Todd Ellis, PhD, Colorado State University, 2008, Assistant Professor — meteorology and climatology, earth science education k-12, informal atmospheric, remote sensing

Charles Emerson, Ph.D., Iowa, 1996, Professor — geographic information science, remote sensing, geospatial techniques, spatial analysis, unmanned aerial vehicles operations and applications

Lucius Hallett IV, Ph.D., Kansas, 2007, Associate Professor — human geography, tourism and travel, culinary geography and food networks, regional geography, agricultural geography, agritourism

Chansheng He, Ph.D., Michigan State, 1992, Professor — natural resource management, geographic information systems, agricultural zoning, agronomy, physical geography, water resource management

David Lemberg, Ph.D., AICP, California-Santa Barbara, 1998, Associate Professor — community and regional development planning

Adam Mathews, Ph.D., Texas State University, 2014, Assistant Professor — GIScience, remote sensing, cartography, unmanned aerial systems applications

Lei Meng, Ph.D., Texas A&M University, 2009, Associate Professor — land-atmospheric interactions, meteorology and climatology, geo-hydrology & engineering geology, soil physics

Benjamin Ofori-Amoah, Ph.D., Simon Fraser, 1990, Professor & Department Chair — economic geography, urban and regional planning, economic development, Africa

Nicholas Padilla, Ph.D., University of Wisconsin-Milwaukee, 2017 Instructor — environmental geography, Latin America, indigenous geographies

Joseph P. Stoltman, Ed.D., Georgia, 1971, Professor — geographic education, cultural geography

Gregory Veeck, Ph.D., Georgia, 1988, Professor — economic geography, agricultural geography, China, qualitative methods, research methods in geography, agritourism, political geography

Li Yang, Ph.D., Waterloo, 2007, Associate Professor — tourism planning, tourism marketing, and cultural tourism

Laiyin Zhu, Ph.D., Texas A&M University, 2013, Assistant Professor — land-atmospheric interactions, meteorology and climatology, geo-hydrology & engineering geology, soil physics, geographic information science

PART-TIME FACULTY:

Michael Gutowsky, M.A. Western Michigan University, Instructor — geographic information systems, physical geography, political geography, remote sensing, regional geography

Rebecca Harvey, M.A., Western Michigan University, 1988, AICP American Institute of Certified Planners, PCP State of Michigan Professional Community Planner, Instructor — community and regional planning, planning zoning, groundwater protection, local land use, development of open space, community planning consultant.

James McManus, M.A. Western Michigan University, 1992, B.S. Valparaiso University, 1987, AICP American Institute of Certified Planners, PCP State of Michigan Professional Community Planner, Instructor — geographic information systems (GIS), physical geography, community and regional planning, planning zoning, groundwater protection, local land use, soil erosion program, county planning director since 1994

Jessica Wesel, M.A. Western Michigan University — environmental geography

EMERITI FACULTY:

David G. Dickason, PhD, Indiana — land and water resources assessment, geodata information processing, South Asia

Val Eichenlaub, Ph.D., Ohio State — meteorology and climatology, U.S. and Canada

Rainer R. Erhart, Ph.D., Illinois — remote sensing, physical geography, biogeography

Charles F. Heller, Ph.D., Illinois — agriculture, urban social, historical geography

Eugene C. Kirchherr, Ph.D., Northwestern — urban geography, urban and regional planning, Sub-Saharan Africa, political

Philip P. Micklin, Ph.D., Washington — post-Soviet states, conservation, environmental impact assessment, Aral Sea

Eldor C. Quandt, Ph.D., Michigan State — tourism and travel, population, Scandinavia

Hans J. Stolle, Ph.D., Wisconsin-Madison — cartography, computer graphics, remote sensing, cartographic visualization

W.E. Upjohn Center for the Study of Geographical Change and Health Data Research Analysis and Mapping (HReAM):

Kathleen Baker, Ph.D., Michigan State, 2002, Professor & Director — geographic information science, physical geography, geospatial techniques, spatial analysis, and agricultural and biogeography

Gregory Anderson, B.S., Western Michigan — geographic information system analysis

MINNESOTA

GUSTAVUS ADOLPHUS COLLEGE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1952

DEGREES OFFERED: B.A.

GRANTED 8/22/16-8/22/17: 10 Bachelors

CHAIR: Anna Versluis

DEPARTMENT ADMINISTRATIVE ASST: Ms. Judy Helmeke

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography, Gustavus Adolphus College, 800 W College Ave., Saint Peter, Minnesota 56082. Telephone (507) 933-7320. Fax (507) 933-7041. E-mail: jhelmek2@gustavus.edu. Internet: <https://gustavus.edu/geography/>.

PROGRAMS AND RESEARCH FACILITIES: The Gustavus Adolphus College Geography Department is a community that nurtures geographic knowledge, skills, and values that guide us in an increasingly complex and interdependent world. Through innovative teaching and scholarship, we seek to cultivate in our students a critical awareness of human-environment relationships, an understanding of the varied dimensions of global change, and respect for the diversity of places and people. We are committed to applying geographic knowledge to build an economically, socially, and environmentally just world. We offer transformative courses and research experiences that combine global perspectives with local engagement, integrate the social and physical sciences, create a welcoming and diverse intellectual community, and prepare students for graduate school and fulfilling, purposeful careers. We promote fieldwork, community service, and internships. Study away semesters, cross-cultural learning experiences, and travel courses are strongly encouraged. Geography graduates continue to careers in natural resource conservation, geospatial analysis, international and community development, urban planning, environmental law and policy, teaching, and research. Two-thirds of Gustavus Geography alumni hold a graduate degree.

The department is located on the first floor of the Nobel Hall of Science. GIS facilities include a server with an extensive digital map collection for Minnesota and a PC laboratory with twenty computers equipped with a wide array of statistical, environmental modeling, and GIS software including ArcGIS, ERDAS IMAGINE, TerrSet, and Orthomapper. The Jacobson Climatology Laboratory, departmental weather station, groundwater well-field, and a stream monitoring station provide instructional and research opportunities for students. The Robert Moline Map Library is housed in the department and features a collection of nearly 100,000 maps from around the world.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Gustavus Adolphus College is on a semester plan. Admission requirements are available from: Office of Admissions, Gustavus Adolphus College, Saint Peter, Minnesota 56082 (<https://gustavus.edu/admission/>), Tel. (507) 933-7676 or 1-800-GUSTAVUS; E-mail: admission@gustavus.edu. Financial Aid information may be obtained from: Financial Aid Office, Gustavus Adolphus College, Saint Peter, Minnesota 56082 (<https://gustavus.edu/admission/financial-aid/>). Prospective students are welcome to contact the department chair to arrange a departmental tour and a meeting with faculty. College employment is available as a teaching assistant.

FACULTY:

Jeff La Frenierre, Ph.D., Ohio State University, 2014, Assistant Professor — climate change, glaciers, hydrology, GIS, mountain geography, water resources

Jesse McClelland, Ph.D., University of Washington, 2018, Visiting Assistant Professor — urban geography, political geography, law and society studies, critical development studies, African studies, planning

Anna Versluis, Ph.D., Clark University, 2008, Associate Professor and Chair — human-environment, political ecology, agriculture, Haiti, disasters, remote sensing

Joaquín Villanueva, Ph.D., Syracuse University, 2013, Assistant Professor — urban geography, political geography, Europe, legal geography, peace studies

ITASCA COMMUNITY COLLEGE

DEPARTMENT OF GEOGRAPHY**DATE FOUNDED:** 1999

DEGREES OFFERED: Associate in Science in Geography/Geographic Information Systems (60 credits—entirely online); GIS Professional Certificate (16 credits—entirely online)

DEGREES GRANTED 9/1/17 – 8/31/18: 25**MAJORS:** Geography/GIS; GIS Professional Certificate**CHAIR:** Timothy Fox

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Timothy.Fox@itascacc.edu, 218-322-2364. Timothy Fox, Itasca Community College, 1851 E. Hwy 169, Grand Rapids, Minnesota, 55744. <http://www.itascacc.edu/academics/area-of-study/gis/>

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Academic Plans: <http://www.itascacc.edu/> | Academics | Programs & Majors | Geography & GIS. Application for Admission: <http://www.itascacc.edu/onlinechecklist>. Financial Aid: <http://www.itascacc.edu/finaid>

FACULTY:

Timothy Fox, Program Coordinator, Geography/GIS/Sciences Faculty

Michael LeClaire, GIS Faculty

Kim Nelson, GIS Faculty

Erin Mason, GIS Faculty

Richard Bohannon, Geography Faculty

MACALESTER COLLEGE

DEPARTMENT OF GEOGRAPHY**DATE FOUNDED:** 1947**DEGREES OFFERED:** B.A.**GRANTED 9/1/16-8/31/17:** 36 Bachelors**MAJORS:** 119**CHAIR:** Holly R. Barcus**DEPARTMENT COORDINATOR:** Laura J. Kigin

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, Macalester College, 1600 Grand Avenue, Saint Paul, Minnesota 55105-1899 USA. Telephone: 651.696.6249. Fax: 651.696.6116. E-mail: kigin@macalester.edu. Website: www.macalester.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES: The department focuses on urban and regional planning; cartography and geographic information systems; human-environment geography; medical and

population geography; development geography; and area studies. Majors in geography are required to take at least one research seminar. Independent work is encouraged. Many students do an internship. Courses often include service learning or action research activities. The department's Geospatial Analysis Lab uses ArcGIS software primarily and maintains extensive databases for local projects and regional US explorations. In addition to the campus library, students have interlibrary loan privileges from neighboring liberal arts colleges in the Twin Cities and from the University of Minnesota libraries. The department hosts the NGS-sponsored Minnesota Alliance for Geographic Education.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Two semesters, fall and spring. Information regarding admission requirements and financial aid may be obtained by contacting the Admissions Office, Macalester College, 1600 Grand Avenue, St. Paul, MN 55105-1899 (toll-free 800-231-7974). Approximately 79 percent of Macalester's students receive some form of financial aid.

FACULTY:

Holly R. Barcus, Ph.D., Kansas State, 2001, Professor — Population, GIS, rural livelihoods, ethnicity, identity, mobility and migration studies

Eric Carter, Ph.D., Wisconsin, 2005, Edens Associate Professor of Geography and Global Health — medical, human-environment, Latin America

I-Chun Catherine Chang, Ph.D., Minnesota, 2015, Assistant Professor — Asian, economic, global cities

David A. Lanegran, Ph.D., Minnesota, 1970, Professor Emeritus

Kelsey McDonald, Ph.D., Minnesota, 2013, Visiting Assistant Professor — medical, GIS, and quantitative analysis

William G. Moseley, Ph.D., Georgia, 2001, Professor — Political ecology, tropical agriculture, environment and development policy, and livelihood security

Ashley Nepp, MGIS, Minnesota, 2011, GIS Lab Instructor — GIS, cartography, Geovisualization

Jerry Pitzl, Ph.D., Minnesota, 1974, Professor Emeritus

Laura J. Smith, Ph.D., Minnesota, 2004, Associate Professor — Urban economic, North America, Native Americans, and statistical methods

Daniel Trudeau, Ph.D., Colorado, 2006, Associate Professor — Urban social, social welfare policy, urban governance, and qualitative methods

ST. CLOUD STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND PLANNING**DATE FOUNDED:** 1961

DEGREES OFFERED: B.A., B.S., B.E.S. (Bachelor of Elective Studies), M.S., B.S.-LS/MS (Bachelor of Science Land Surveying/Mapping Science)

GRANTED 1/1/2016 to 1/1/2017: 63 Bachelors (various degree programs), 3 Masters

MAJORS: 140 declared majors in the various degree programs

CHAIR: David L. Wall

DEPARTMENT ADMINISTRATIVE ASST: Meredith Rogers

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. David L. Wall, Chair Department of Geography and Planning, St. Cloud State University, 720 Fourth Avenue South, St. Cloud, Minnesota 56301-4498. Telephone (320) 308-2095, email: dlwall@stcloudstate.edu or Graduate Program Director Dr. Mikhail Blinnikov, Telephone (320) 308-2263, Email:

msblinnikov@stcloudstate.edu. Web: <http://www.stcloudstate.edu/gp/>.

PROGRAMS AND RESEARCH FACILITIES: The Geography Program provides students with an awareness that the earth's phenomena are spatially associated and often interdependent. Emphasis is placed upon principles fundamental to a well-grounded education in academic geography preparatory to a range of careers in the private and public sectors, including teaching, and the pursuit of further graduate study. Cornerstones of SCSU's geography program include the study of physical and human geography in a range of introductory and advanced topical and regional courses, as well as the hands-on learning of applied skills in cartography, geographic information systems, aerial photograph interpretation/remote sensing, and quantitative and qualitative research methods. Emphases within the Geography Major focus on human and cultural geography, physical systems, environmental geography, resource and regional planning, and geographic information science. The department also offers a separate GIS Minor, an M.S. in Geography-GIS, a GIS Graduate Certificate, a B.S. degree in Land Surveying/Mapping Sciences, a B.A. in Hospitality and Tourism, a B.A. in Planning and Community Development, Graduate Certificate in Planning and Community Development, and Five-Year BA-MPA Planning Concentration, and B.S. in Social Studies Teaching.

The SCSU Department of Geography GIS lab utilizes 30 dual-monitor workstations that are regularly upgraded. The Department's Land Surveying program provides access to survey and mapping grade GPS equipment. Software support includes all ESRI products (ArcGIS and extensions), ERDAS/IMAGINE, Pfoffice, Micro Survey, AutoCAD Civil 3D, StarNet, and other appropriate support software. The department has an extensive library of digital geospatial data that includes remotely sensed images, digital orthophotoquads, and census-related data.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. See the catalog for admission requirements and financial aid.

FACULTY:

Randal G. Baker, Ph.D., Oregon State University, 1993, Professor — travel/tourism, resources, recreation, Europe
Mikhail Blinnikov, Ph.D., University of Oregon, 1999, Professor — conservation, biogeography, GIS, Russia
Luis Estevez, Ph.D., Texas A&M University, 2012, Associate Professor — urban planning, housing, international planning, land use planning.
Cynthia J. Fitzthum, MA, University of Delaware, 2011, Instructor — social studies education, economics education
Eric I. Fuller, MSE, Purdue University, 2007, Associate Professor — surveying
Gareth E. John, Ph.D., University of Kentucky, 2003, Professor — cultural, historical, political, US, UK, Europe
Bel Kambach, M.Ed. Glion Hotel School, 2004, Assistant Professor — travel/tourism, ecotourism
Benjamin F. Richason III, Ph.D., Michigan State University, 1976, Professor — remote sensing, cartography, soils, GIS
Aspasia Rigopoulou-Melcher, Ph.D., University of Pittsburgh, 2000, Associate Professor — urban planning, economic development, environmental planning, housing, international development
Jeffrey S. Torguson, Ph.D., University of Georgia, 1993, Professor — cartography, GIS, Asia
Chukwunyere Ugochukwu, Ph.D., Jackson State University, 2004, Associate Professor — planning, urban design, preservation
David L. Wall, Ph.D., University of Iowa, 1990, Professor — economic, urban, Latin America
Hung-Chih (Alvin) Yu, Ph.D., Pennsylvania State University, 2008, Associate Professor — travel/tourism, planning, East Asia

EMERITUS FACULTY:

Lewis G. Wixon, Ph.D., Indiana State University, 1978, Professor — climatology, physical, Europe

UNIVERSITY OF MINNESTOA - DULUTH

**DEPARTMENT OF GEOGRAPHY, URBAN,
ENVIRONMENT & SUSTAINABILITY STUDIES**

DATE FOUNDED: 1912

DEGREES OFFERED: B.A. in Environment, Sustainability & Geography (ESG), B.S. in Geographic Information Science (GIS). The department has offered a B.A. in Urban and Regional Studies (URS) and B.A. in Geography. These degrees are being discontinued and merged into the ESG degree. Minors in ESG, GIS and ES, Undergraduate Certificate and Graduate Certificate in GIS

DEGREES GRANTED 9/1/16-8/31/17: 5 Bachelors in GEOG; 3 Bachelors in GIS; 29 Bachelors in ES; 4 Bachelors in URS; 6 GIS Certificates

MAJORS: 13 Geography; 25 GIS; 84 ES; 22 URS

DEPARTMENT HEAD: Adam Pine

DEPARTMENT ADMINISTRATOR: Bridget Park

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Program in Geography, University of Minnesota-Duluth, 324 Cina Hall, 1123 University Drive, Duluth, Minnesota, 55812. Also visit UMD's home page at <http://www.d.umn.edu/> and the Program in Geography department home page at <https://cla.d.umn.edu/departments/guess>. Telephone (218) 726-6300 (departmental office) or (218) 726-7076 (department head). Fax (218) 726-6540 Email: umdgeog@d.umn.edu

PROGRAMS AND RESEARCH FACILITIES: The department offers majors and minors in Environment, Sustainability and Geography and Geographic Information Science. and undergraduate and graduate certificates in Geographic Information Science. The ESG degree has three focus areas: Environment and Sustainability, Urban and Regional Studies and Geography. These programs provide professional and academic preparation for careers related to geography, GIS, environment & sustainability, and urban and regional studies, as well as for graduate work in these areas, and for teaching in secondary schools. These programs offer a full range of regional and topical courses, including world regional geography; human geography; urban planning; physical geography; soils geography; water resources and hydrology; economic and development; weather & climate; global resources; urban ecology; environment & sustainability; food systems; conservation and planning; geographic information sciences including map design and graphic methods, animated and multimedia maps, geographic information systems, and remote sensing; field techniques; geographic thought; and opportunities for independent study courses of special interest to the student. Students in all programs have many opportunities for internships with public and private agencies in their respective fields of interest. The Program in Geography administers the Center for Sustainable Community Development, the Center for Community and Regional Research, the Sustainable Agriculture Program, and contributes to the International Studies program. The Program in Geography houses and maintains a Physical Geography and Soils Laboratory complete with equipment for highly detailed soil analysis.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, and FINANCIAL AID: University of Minnesota Duluth, with an enrollment of 10,000, is the second largest of the five campuses that

comprise the University of Minnesota System. UMD is on the semester calendar system. Applications for admission to UMD and to the ESG and GIS Programs may be obtained by visiting UMD's Web Site at <http://www.d.umn.edu/undergraduate-admissions> or by writing the Admissions Office, 25 Solon Campus Center, 1117 University Drive, Duluth, MN 55812-3000. Prospective applicants should request information regarding financial aid along with the admissions request.

FULL AND PART-TIME FACULTY:

Ryan Bergstrom, Ph.D., Kansas State University, 2012, Assistant Professor — Socio-ecological systems, sustainability, GIS, rural studies

Laure Charleaux, Ph.D., Joseph Fournier University, 2003, Assistant Professor — Cartography and Geographic Information Science, Europe, Mobility and Transportation

Pat Farrell, Ph.D., University of Cincinnati, 1997, Associate Professor — Physical, Soils, Weather and Climate, Latin America

Randel, Hanson, Ph.D., University of Minnesota, 1998, Assistant Professor — Food Systems, Environmental, Climate, Economic

Olaf Kuhlke, Ph.D., Kent State University, 2001, Associate Professor and Associate Dean of College of Liberal Arts — Cultural, youth culture, nationalism, political, ecology, urban environments, religion

Mike Mageau, Ph.D., University of Maryland Institute for Ecological Economics, 1998, Assistant Professor — Environmental Science, systems ecology, ecological economics, energy

Adam Pine, Ph.D., Rutgers University, 2007, Associate Professor and Department Head — Urban Geography, Urban Planning

Tongxin Zhu, Ph.D., University of Toronto, 1998, Professor — Physical, hydrology, fluvial geomorphology, environmental applications of

Afton Clarke-Sather., University of Colorado at Boulder, 2012, Assistant Professor — Water Resources, Political Ecology, China, Political Geography

EMERITI FACULTY:

Gordon L. Levine, Ph.D., University of Michigan, 1977 — Economic, transportation, East and Southeast Asia, Minnesota, field techniques

UNIVERSITY OF MINNESOTA – TWIN CITIES

DEPARTMENT OF GEOGRAPHY, ENVIRONMENT AND SOCIETY

DATE FOUNDED: 1925

GRADUATE PROGRAM FOUNDED: 1930s

DEGREES OFFERED: B.A. (BSE); B.A., B.S. (Geog.);
B.A., B.S. (Urban Studies); M.GIS; M.A., Ph.D. (Geog).

GRANTED 7/1/16-6/30/17: 213 B.A./B.S., 1 M.A., 13
M.GIS, 3 Ph.D.

STUDENTS IN RESIDENCE: 597 B.A./B.S.; 4 M.A.; 40
M.GIS; 41 Ph.D.

NOT IN RESIDENCE: 8

CHAIR: Bruce Braun

DEPARTMENT ADMINISTRATOR: Glen L. Powell

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Sara Braun, Graduate Program Coordinator, Department of Geography, Environment and Society, University of Minnesota, 267 19th Avenue South, Minneapolis, MN 55455. Email: geog-dgs@umn.edu Telephone (612) 625-0864. Fax (612) 624-1044. Website: <https://cla.umn.edu/geography>.

PROGRAMS AND RESEARCH FACILITIES: Minnesota's graduate and professional programs in Geography and Geographic Information Science prepare students for careers in academia, industry, government, and not-for-profit sectors. Our top-ranked department provides a setting for graduate study or professional training in one of the nation's outstanding public land-grant research universities, located at the heart of one of America's most attractive and vital metropolitan areas.

We provide up-to-date computing, cartography/GIS, and physical geography laboratories, support for tree-ring analysis, soil characterization, and paleoenvironmental reconstruction, and one of the nation's finest libraries supporting all graduate, professional and undergraduate research and training programs. Students work with leading hardware and software used in contemporary research, teaching, and commercial applications.

The M.A. program meets needs of the early- and mid-career students pursuing post-graduate studies in any area of human or physical geography, foreign-area study, international development, or geographic information science. Student programs are individually designed, with emphases that vary from the general liberal arts, environmental science, and skill-based professional preparation, to preparatory work for the Ph.D.

The M.GIS program provides graduate-level work in the theory, applications, and technology of geographic information science. Courses for the program are divided into three broad categories. Core courses provide the conceptual and theoretical underpinnings for a comprehensive, well-rounded knowledge of GIS, including an introductory seminar for entering students. A set of technology courses focus on specific software and techniques in GIS. Elective courses provide additional breadth to the program by allowing students to take courses related to their area of interest.

Ph.D. students work closely with their chosen advisers in designing individualized programs that meet their interests, needs and employment opportunities. Most doctoral students design interdisciplinary programs that take advantage of Minnesota's expertise in cognate areas as represented by the Interdisciplinary Center for the Study of Global Change, the Institute on the Environment, the Institute for Advanced Study, and within the Hubert H. Humphrey Institute of Public Affairs, School of Public Health, College of Natural Resources, College of Agricultural, Food and Environmental Sciences, as well as other top-ranked social science departments in the College of Liberal Arts.

Faculty and students collaborate in research and publication. We believe our research programs should be useful to society domestically and internationally. Various departmental institutions foster community and intellectual exchange—weekly coffee hours, informal bi-weekly reading groups, visiting scholar brown-bags, and the annual Ralph H. Brown lecture and awards banquet.

Areas of faculty and graduate student research interest and expertise include: *Biogeography*: forest dynamics; grassland dynamics; environmental stability and change; human disturbance; agroclimatology; climate-biosphere interactions; *Cartography*: symbolization; scale problems and generalization; multimedia cartography; cartographic design; digital cartographic production; spatial visualization; history of cartography; *Geographic Information Science*: spatial data handling methods; exploratory spatial data analysis; design of data systems; GIS and society; *Climatology*: climate variability; climate modeling; temperature and precipitation climatology; wind climatology; paleoclimates; climate change; *Cultural Studies of the Environment*: society-environment relations; cultural and urban landscape analysis/ interpretation; cultural memory and place; political ecology; qualitative methods of geographic research; *Cultural Geography*: new cultural geography; landscape and memory; politics of place and identity; cultures of nationalisms; race,

ethnicity and sexuality; postcoloniality; migration and transnational cultures; *Economic Development*: regional inequalities; local development initiatives; problems of development in Africa, Asia and Latin America; *Feminist Geography*: social theory; planning history and urban theory; gender, sexuality and the city; feminist methods; *Geographic Education*: cognitive development and geographical learning; environmental education; *Geography of the Developing World*: development geography, political geography and agrarian change; *Historical Geography and Regional Analysis*: public land policy; Scandinavia; Europe; Russia and environs; the European Union; Latin America; the Islamic world; U.S. and Canada; *Land Use and Environmental Planning*: environmental risk assessment; environment quality; geographic research in city and regional planning; *Physical Geography*: paleoenvironments; water resources; environmental change; population geography; processes and impacts of international migrations; *Regional Economic Development*: political economy; development theory and the state; *Society-Environment Relations*: cultural studies of the environment; political ecology; environmental justice; science studies; *Geographical Thought and Practice*: social and cultural theory; society and space; history and philosophy of geography; feminist theory; *U.S. and Canadian Studies*: rural geography; historical geography of North America; minority settlements in America; American metropolitan evolution; *Urban Geography*: New Urbanism; public urban landscapes; culture of cities; transportation and land use; real estate; American cities; urban and regional economic analysis; feminist perspectives on the city.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Admission Requirements are those of the College of Liberal Arts. Prospective students should consult the *Bulletin* of the College for details.

Degree Requirements: The department offers both B.A. and B.S. degrees in geography, urban studies and an interdisciplinary degree in biology, environment and society. Programs may be structured within a variety of teaching/research areas of the department or may be designed individually in consultation with an adviser. Students complete a senior project.

Graduate: Admission (M.A./Ph.D.) is based on a combination of undergraduate and, if appropriate, graduate grade point averages; scores (for graduates of U.S. institutions) on the Graduate Record Examination that are less than five years old; statement of purpose; and three letters of evaluation. No single criterion dominates but the combination must demonstrate potential for success in a highly individualized graduate program. Applications from students lacking an undergraduate major in geography are welcome but such students may be asked to make up deficiencies. Application deadline is December 15; all applications are evaluated once each year in early January.

Admission (MGIS): Requires a Bachelors degree with a preferred cumulative grade point average of 3.0. Additional requirements include completion of one college-level course in mathematics, statistics, and computer programming. The GRE is not required. For international applicants, an English Language Proficiency Exam such as TOEFL, IELTS, or MELAB is required. Applicants should understand that the admissions process is competitive, based on a careful assessment of each applicant's file, and that we can only offer admission to a limited number of qualified applicants to ensure high quality advising and accessibility to facilities and other resources. All application materials are submitted online and must be submitted by January 30 for Fall admission; September 1 for Spring semester admission.

M.A. Degree Requirements: The department offers two plans for the M.A. degree. Plan A *thesis option* [20 credit hours + 10 thesis credits; minimum 14 credit hours within department and 6 credit hours outside

department] includes work in supporting fields or a minor, plus a thesis. Plan B *papers option* [30 credit hours; minimum 14 credit hours within department and 6 credit hours outside department] includes work in a supporting field or a minor, plus three masters papers. Those students intending to continue on to the PhD are encouraged to complete the Plan B option which allows them to further develop the three master's papers into the comprehensive papers required for the PhD in a more timely manner.

MGIS Degree Requirements: This degree is offered Plan C (coursework only) and requires 35 credits of course work. For more details on MGIS degree requirements, visit: <https://cla.umn.edu/mgis/program/master-geographic-information-science>

Ph.D. Degree Requirements: The Ph.D. is awarded for successful completion of three comprehensive papers, a preliminary oral examination, and the completion and defense of a dissertation. Complete requirements are as follows: 1) Coursework -52 credit hours: 16 credit hours in department + 12 credit hours outside department + 24 thesis credits; 2) Completion of 8001 [Problems in Geographic Thought] + 8405 [Professional Development Seminar] + two additional GEOG 8xxx (graduate level) courses. Students must include at least one methods course in their graduate degree plan. Additionally, they must include at least one proposal-writing course in their graduate degree plan. The methods and proposal-writing requirements may be fulfilled by courses outside the department; 3) Preparation of a research dossier; 4) Preliminary exams (taken in Spring of 3rd year [semester 6]; earlier where appropriate for students entering with MA/MS; 5) Examination of dissertation proposal (within 3 months of completing preliminary exams); 6) Defense of dissertation.

The foreign language/methodology requirements are similar to those for the M.A. Degree Programs and are individually designed in consultation with a faculty adviser.

Financial Aid: The University of Minnesota operates on a semester system. All admitted students (unless otherwise noted in their acceptance letter) will be supported through a combination of fellowships, teaching assistantships and/or research assistantships as follows: 5 years if entering with a BA; 4 years if entering with an MA. All options usually provide a stipend, tuition waiver, and health insurance. Summer support for field work is typically awarded to all incoming graduate students, and is available, on a competitive basis, to all students after their first year.

HUMAN RIGHTS STATEMENT: The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation.

FACULTY:

Bruce P. Braun, Ph.D., University of British Columbia, 1996, Professor — society-environment relations, political ecology, social and cultural theory, cultural studies of the environment

Peter Calow, D.Sc. University of Leeds UK, 1984, Professor — science and public policy, focusing on risk of chemicals in the environment

Kate Derickson, Ph.D., The Pennsylvania State University, 2011, Associate Professor — urban political economy, race and racialization, feminist and critical epistemology, engaged scholarship, land use and environmental politics, social and political theory

Dodge, S., Ph.D., University of Zurich, 2011, Assistant professor — GIScience, movement analysis and modeling, spatiotemporal analytics, agent-based simulation, geographic visualization, movement ecology, movement-environment interactions

- Vinay K. Gidwani, Ph.D., UC-Berkeley, 1997, Professor — development economics; agrarian/environmental studies
- Kathryn Grace, Ph.D., UC-Santa Barbara, 2008, Associate Professor — population geography, demography, health, development, food security and land cover land use change, quantitative and qualitative analysis
- Daniel Griffin, Ph.D., University of Arizona, 2013, Assistant Professor — climate science; environmental change; water resource issues; dendrochronology
- George Henderson, Ph.D., UC-Berkeley, 1992, Professor — Marxism; post-capitalist politics; value theory of labor; Marxist cultural critique
- Kurt F. Kipfmüller, Ph.D., University of Arizona, 2003, Associate Professor — Biogeography, paleoclimatology, forest dynamics, dendrochronology
- Katherine Klink, Ph.D., Delaware, 1992, Associate Professor — physical climatology, climate-biosphere interactions, climate modeling, quantitative methods
- Mark B. Lindberg, Ph.D., Kansas, 1987, Senior Cartographer, Adjunct Associate Professor, co-director of MGIS Program — geographic information systems, digital cartographic production, cartographic design
- Steven M. Manson, Ph.D., Clark, 2002, Professor — nature-society relationships; land use-land cover change; human dimensions of global change; biocomplexity; socioeconomic vulnerability; Latin America
- Robert B. McMaster, Ph.D., Kansas, 1983, Professor — geographic information science/systems, cartographic design and visualization, quantitative methods and spatial analysis, environmental risk assessment and justice, geographic information science and society
- Arun Saldanha, Ph.D., Open University (UK), 2004, Associate Professor — race relations, geography of music, geography of tourism, poststructuralist philosophy, feminism, anthropology
- Abdi I. Samatar, Ph.D., UC-Berkeley, 1985, Professor — development geography, political economy and agrarian change, development theory and the State, Africa
- Eric Shook, Ph.D., University of Illinois at Urbana-Champaign, 2013, Assistant Professor — cyberGIS, geographic information science, agent-based modeling, high-performance computing
- Ying Song, Ph.D., The Ohio State University, 2015, Assistant Professor — GIScience, time geography, spatio-temporal modeling and analysis, transportation geography
- Roderick H. Squires, Ph.D., Durham, 1970, Associate Professor — environment quality, public land policy, real estate, evolution of landscapes, political ecology of Minnesota
- Scott St. George, Ph.D., University of Arizona, 2007, Associate Professor — paleoclimatology, climate dynamics, natural hazards, and climate impacts on renewable energy
- ADJUNCT FACULTY:**
- Susan L. Craddock, Ph.D., UC-Berkeley, Associate Professor, *Women's Studies* — social geography and political ecology of health; women's health in historical and geographical perspective; U.S., India
- Jeff Crump, Ph.D., University of Nebraska-Lincoln, 1989, Professor, *Housing Studies* — housing and patterns of urban development
- Kirsten Delegard, Ph.D., Duke University, 1999, Fellow & Director *Mapping Prejudice Project* — Urban history; community-engaged scholarship; digital humanities and public history; race and racialization; history of Minneapolis; race and racialization
- Michael Goldman, Ph.D., UC-Santa Cruz, 1994, Associate Professor, *Sociology* — Transnational, Political Economic, and Urban Sociology; Transnational Institutions of Finance, Development, and Expertise
- Timothy J. Griffiths, Ph.D., McMaster University, 2000, Professor, *Soil, Water and Climate* — boundary layer climatology, biometeorology, land-atmosphere interactions
- Nicholas Jordan, Ph.D., Duke University, 1986, Professor, *CFANS Agronomy/Plant Genetics* — Agroecology; social and biophysical determinants of agricultural land-use; collaborative management of agricultural landscapes
- Lawrence M. Knopp, Jr., Ph.D., Iowa, 1989, Director, *Interdisciplinary Arts & Sciences*, University of Washington Tacoma — urban, political, gender, sexuality, social theory
- Hanna Mattila, Sc.D., Aalto University, 2017, University Lecturer Aalto University School of Engineering — Planning theory, Urban planning, Land use, Planning systems, Urban design, Urban and regional studies, Regional development, Regional planning, Urban history
- William G. Moseley, Ph.D., University of Georgia, Athens, 2001, Professor Macalester College — Political ecology, tropical agriculture, food security, environment and development, West and Southern Africa
- Ann R. Markusen, Ph.D., Michigan State, 1974, Professor, *Planning and Public Affairs*, Humphrey Institute of Public Affairs — urban and regional economic development, urban and regional planning
- Richa Nagar, Ph.D., Minnesota, 1995, Professor, *Women's Studies* — development studies, gender studies, South Asia, East Africa, geographic perspectives on women, socialist geography
- Hari Osofsky, J.D., Yale, 1998, Associate Professor and 2011 Lampert Fesler Research Fellow, University of Minnesota Law School — Climate change, clean energy, environmental justice, law and geography
- EMERITUS FACULTY:**
- *John S. Adams, Ph.D., Minnesota, 1966, Professor Emeritus — American cities, regional economic analysis, housing, transportation, Russia and environs
- *Dwight A. Brown, Ph.D., Kansas, 1968, Professor Emeritus — physical, paleoenvironments, water resources, geographic information systems, biogeography
- *Philip J. Gersmehl, Ph.D., Georgia, 1970, Professor Emeritus; Adjunct Professor, *American Studies* — environmental, education, North America, multi-media cartography, geographic information systems
- *John Fraser Hart, Ph.D., Northwestern, 1950, Professor Emeritus — rural, U.S. and Canada, geographic writing
- *Helga Leitner, Ph.D., Vienna, 1978, Professor Emerita; Professor, *Department of Geography*, UCLA — urban, political, international migrations, social theory, GIS & society, Europe, European Union
- *Philip W. Porter, Ph.D., London, 1957, Professor Emeritus; Adjunct Professor, *Department of Afro-American and African Studies* — Africa, tropical agroclimatology, development, cartography
- *Joseph E. Schwartzberg, Ph.D., Wisconsin, 1960, Professor Emeritus — South Asia, political, historical cartography, history of cartography
- *Earl P. Scott, Ph.D., Michigan, 1974, Professor Emeritus; Adjunct Professor, *Department of Afro-American and African Studies* — human/landscape geography, economic development from the perspective of small-scale enterprises, Africa, minority settlements in America with emphasis on the African Diaspora
- *Eric Sheppard, Ph.D., Toronto, 1977, Professor Emeritus; Humboldt Chair and Professor of Geography, Department of Geography, UCLA — economic geography, political economy, quantitative methods, philosophical foundations of geography, economic development, environmental justice, GIS & society, local development initiatives
- *Richard H. Skaggs, Ph.D., Kansas, 1967, Professor Emeritus; Adjunct Professor, *Department of Soil, Water, and Climate* — climatology, physical, long-term temperature trends, impacts of climate variability
- *Connie H. Weil, Ph.D., Columbia, 1980, Associate Professor Emeritus — medical, Latin America, geographic education

MGIS FACULTY:

For a listing of MGIS faculty, see:
<https://cla.umn.edu/mgis/people/faculty>

MISSOURI

NORTHWEST MISSOURI STATE UNIVERSITY

DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES

DATE FOUNDED: Geography 1970; combined 2012

DEGREES OFFERED: B.A. and B.S. Geography; B.S.

Geographic Information Science; M.S. Geographic Information Science (online), Graduate Certificate Geographic Information Science (online); B.S. Emergency and Disaster Management; B.S. Criminology; B.A. and B.S. History; B.A. and B.S. Political Science; B.A. and B.S. Liberal Arts and Sciences; B.S.Ed. Social Science; M.S.Ed. Teaching History

DEGREES GRANTED 9/1/16-8/31/17: 11 Bachelors; 8

M.S. GIScience; 7 Graduate GIScience Certificates

MAJORS: 43 in Geography/GIScience; 20 Masters in GIScience; 14 Graduate GIScience Certificates

CHAIR: Dawn Gilley

SECRETARY: Cortni Shreve

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chair, Department of Humanities and Social Sciences, Northwest Missouri State University, Maryville, Missouri 64468. (660) 562-1290. Fax (660) 562-1241. E-mail: dgilley@nwmissouri.edu. Internet: <http://www.nwmissouri.edu/socialsciences/index.htm>. For information about the online M.S. in Geographic Information Science, see <http://www.nwmissouri.edu/dept/gis>.

PROGRAMS AND RESEARCH FACILITIES: A broad-based undergraduate geography program is offered with concentrations in GIS/cartography/remote sensing and environment/resource management.

The department offers an online Master of Science degree in Geographic Information Science. The degree program focuses on applications of GIS in research and industry. Students may earn a graduate certificate in GIS by taking a subset of courses required for the Masters degree.

ACADEMIC PLAN AND ADMISSION REQUIREMENTS:

Bachelor's degrees in geography require 31-37 credit hours and a minor, depending on the major emphasis and degree. The comprehensive major in geographic information science requires 55 credit hours. Minors offered by the department require 18-27 credit hours, depending on the subject area.

Thesis and non-thesis options are available for the M.S. in Geographic Information Science. The thesis option requires completion of 27-30 hours of approved graduate courses and 3 hours of thesis credit. The non-thesis research option requires completion of 31-34 hours of approved graduate courses and a research paper. Candidates must meet program admission requirements that include completion of a four-year undergraduate degree from an accredited college or university with an undergraduate GPA of 2.75 on a 4.0 scale; minimum verbal plus quantitative GRE score of 286 (students not meeting this score must maintain a 3.0 average for the first nine hours

of graduate credit before admission to candidacy); two letters of recommendation; and a writing sample to be evaluated during the student's first trimester. GRE scores are not required for applicants for the graduate certificate program or for those with one year of full-time GIS professional work experience or three years of full-time professional work experience in any field. For additional information, see <http://www.nwmissouri.edu/dept/gis>.

FACULTY:

Geography/GIS

Jeffrey Bradley, M.S., Oklahoma State, 1991, Senior Instructor — physical, natural disasters

Brett Chloupek, Ph.D., Kansas, 2013, Assistant Professor — cultural, political, historical, Europe

Mark Corson, Ph.D., South Carolina, 1997, Professor — emergency management and homeland security, geospatial intelligence, political, military

Patricia Drews, Ph.D., South Carolina, 1999, Professor and GIScience Program Director — GIS, quantitative methods

Theodore Goudge, Ed.D., Oklahoma State, 1984, Associate Professor — sport geography

Ming-Chih Hung, Ph.D., Utah, 2003, Professor — GIS, remote sensing

Kevin Romig, Ph.D., Arizona State, 2004, Associate Professor — urban, cultural, environment

Yi-Hwa Wu, Ph.D., Utah, 2003, Professor — GIS, geocomputation

Emergency and Disaster Management

John Carr, M.S., North Dakota State, Instructor

History

Joel Benson, Ph.D., Miami, Professor

Elyssa Ford, Ph.D., Arizona State, Associate Professor

Matt Johnson, M.A., Northwest Missouri State, Senior Instructor

Devlin Scofield, Ph.D., Michigan State, Assistant Professor

Dana Ternus, M.A., Northwest Missouri State, Instructor

Robert Voss, Ph.D., Nebraska-Lincoln, Assistant Professor

Humanities

Dawn Gilley, Ph.D., Missouri-Columbia, Associate Professor

Philosophy

Richard Field, Ph.D., Southern Illinois at Carbondale, Associate Professor

Political Science

Kimberly Casey, Ph.D., Missouri-St. Louis, Associate Professor

Luke Campbell, Ph.D., Kansas, Assistant Professor

Jessica Gracey, Ph.D., Missouri-St. Louis, Assistant Professor

Brian Hesse, Ph.D., London School of Economics and Political Science, Professor

Daniel Smith, J.D., Virginia, Assistant Professor

Criminology

Kamala Tabor, M.A., Sophia University, Instructor

UNIVERSITY OF MISSOURI - COLUMBIA

DEPARTMENT OF GEOGRAPHY AND GEOGRAPHIC RESOURCES CENTER

DATE FOUNDED: 1950

GRADUATE PROGRAM FOUNDED: 1950

DEGREES OFFERED: B.A., M.A.

GRANTED 8-21-16 through 5-31-17: 18 Bachelors, 4
Masters

STUDENTS IN RESIDENCE: 59 Majors, 9 Masters

CHAIR: Michael Urban

DEPARTMENT ADMINISTRATIVE ASSISTANT: Dina
Nichols

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography, University of Missouri-Columbia,
202 Stewart Hall, Columbia, MO 65211-6170. Telephone (573) 882-
8370. Fax (573) 884-4239. E-mail: geog@missouri.edu. Internet:
www.geog.missouri.edu.

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE: The B.A. degree in Geography requires 36 semester hours, including 21 hours of core courses with 15 additional hours in one of four emphasis areas and a secondary area in geography. The following four emphasis areas allow students to further focus on the undergraduate degree program around their own personal interests in geography: human/regional/cultural geography, geographic information sciences, physical/environmental geography, and general geography. There are Certificate Programs in Geographic Information Science (GIS) and Geospatial Intelligence (GEOINT). Writing skills are emphasized, and dual degrees are common. A special honors program is available. The University maintains a strong undergraduate study abroad program.

GRADUATE: The M.A. degree offered by the department requires 32 hours of coursework coupled with research project. Thesis and non-thesis options exist. Programs are tailored to fit the individual needs and interests of students, make liberal use of cognate fields, and commonly focus on a) Human Geography: cultural, population, historical, urban, and Indigenous geography, b) Nature/Society Relationships: interface of environment and humans, particularly the political, social, philosophical and economic implications of environmental change, c) Physical Geography: environmental processes and their modification by humans, particularly for biogeographic and geomorphic systems, and d) Applied Geosciences. The Geographic Resources Center functions as both a teaching and research facility, serving as an interdisciplinary center for computer graphics, remote sensing and GIS. Graduates of our program are well prepared to succeed in top doctoral programs in Geography as well as professional employment in fields such as Geographic Information Sciences, environmental management, planning and preservation. Our graduates are found in local, state and federal government agencies, the private sector, and non-governmental organizations.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Semester system. A combination of the applicant's high school class rank and an ACT, SAT, or SCAT test score determines admission to the University as a freshman. Students become geography majors by filing an approved Geography Graduation Plan. Information on financial aid should be obtained from high school counselors or from the Student Financial Aid Office, 11 Jesse Hall, UMC, Columbia, MO 65211.

GRADUATE: Semester system. The Geography Department bases admission decisions in large part on the applicant's 1) record of scholarship as an undergraduate, 2) GRE scores, 3) letters of recommendation, 4) statement of purpose, and 5) compatibility of scholarly interests with those of the faculty. In general the minimum undergraduate GPA should exceed 3.0 (on a 4.0 scale), and combined verbal and quantitative GRE scores should meet or exceed 300. International students must submit TOEFL scores that demonstrate a strong command of the English language. Teaching and Research Assistantships are awarded to graduate students each academic year and include remission of tuition and fees. To be considered for either a teaching or research assistantship, university and departmental applications (including letters of reference) must be received by February 1. The M.A. program is intended to be a two-year program, concluding with the defense of the master's thesis or other professional research project.

FACULTY:

Clayton F. Blodgett, Ph.D., University of Kansas, 2004, Assistant Teaching Professor — remote sensing, geographic information systems, spatial statistics/environmental modeling, conservation ecology, biogeography, landscape ecology

Grant P. Elliott, Ph.D., Minnesota, 2009, Assistant Professor — vegetation-climate interactions; ecotonal dynamics of upper treeline; dendroecology; disturbance ecology; climate change; dendroclimatology; mountain environments

Matthew Foulkes, Ph.D., Illinois, Urbana-Champaign, 2002, Associate Professor — demographics, migration and rural development

Joseph J. Hobbs, Ph.D., Texas-Austin, 1986, Professor — Middle East, cultural ecology, environmental issues in developing countries, indigenous peoples, Vietnam programs

Douglas A. Hurt, Ph.D., Oklahoma, 2000, Assistant Teaching Professor — historical geography, tourism, sport and regional identity, geographic education, Missouri

Soren C. Larsen, Ph.D., Kansas, 2002, Associate Professor — politics of place, political ecology, sustainable development, indigenous peoples, territoriality, ethnography and qualitative methods

Timothy C. Matisziw, Ph.D., Ohio State University, 2005, Associate professor — network analysis and design; location modeling; environmental conservation; urban/regional planning and risk assessment; geographic information science; transportation geography; urban/regional planning

Mark H. Palmer, Ph.D., University of Oklahoma, 2006, Associate Professor — indigenous geographies, geographic information systems, natural resources, North America, history of cartography, qualitative methods, place-based approach to earth systems science

Michael A. Urban, Ph.D., Illinois, Urbana-Champaign, 2000, Associate Professor & Chair — fluvial geomorphology, anthropogenic landscape change, environmental ethics in environmental management, geographic thought

EMERITI FACULTY:

Gail S. Ludwig, D.A., Northern Colorado, 1977, Associate Professor — educational technology, remote sensing, map interpretation, geographic education, research methods

William Noble, Ph.D., Louisiana State University, 1968, Associate Professor — Asia, settlement geography, physical geography, indigenous peoples

Christopher L. (Kit) Salter, Ph.D., University of California-Berkeley, 1970, Professor — Cultural geography, landscape analysis, China, geography education, field geography

Walter A. Schroeder, Ph.D., Missouri-Columbia, 2000, Associate Professor — physical, historical, Missouri

ADJUNCT FACULTY:

Larry Brown, Ph.D., Missouri-Columbia, 2003, Resident Instructor Assistant Professor — cultural geography, political geography, Middle America, geography of religion

C. Mark Cowell, Ph.D., Georgia, 1992, Associate Professor — biogeography, landscape ecology, historical vegetation studies, field geography

Curt H. Davis, Ph.D., University of Kansas, 1992 — radar systems, RF & microwave signal propagation, wireless communication systems, satellite and airborne remote sensing systems, satellite altimetry, high resolution earth image processing, ice sheet mapping and change detection, digital elevation models, urban mapping and feature extraction, and geospatial information processing

William R. Elliott, Ph.D., Texas Tech University, 1976, Cave biologist for the Missouri Department of Conservation — Cave ecology, taxonomy and evolution, biogeography, caving techniques and safety, cave and karst management

Robert Jacobson, Ph.D., Johns Hopkins, 1985 — Geologic hazards, watershed processes, paleoseismology, geomorphology, and neotectonics

TECHNICAL STAFF:

Thomas Vought, M.S., Geography, Kansas State University, 2006, Operations and Data Manager, Missouri Spatial Data Information Service — Spatial data analysis, cartography, interactive map design, data distribution, website design and maintenance

MONTANA

MONTANA STATE UNIVERSITY

DEPARTMENT OF EARTH SCIENCES

DATE FOUNDED: 1947

DEGREES OFFERED: B.S. in Earth Sciences (Geography, Geology, GIS/Planning, Snow Science, Paleontology options), M.S. in Earth Sciences (Geography or Geology emphases), Ph.D. in Earth Sciences

GRANTED Academic Year 2017-2018: 13 Bachelors, 7 Masters, 1 Ph.D.

STUDENTS IN RESIDENCE: 263 Majors, 18 Masters, 19 Ph.D.

CHAIR: Jordy Hendriks

DEPARTMENT ADMINISTRATIVE ASSISTANT:
Brenna Szott

FOR FURTHER INFORMATION CONTACT: Geography Coordinator, Department of Earth Sciences, Montana State University, P.O. Box 173480, Bozeman, Montana, 59717. Telephone (406) 994-3331. Fax (406) 994-6923. E-Mail: earth@montana.edu. World Wide Web: <http://www.montana.edu/wwwes/>

PROGRAMS AND RESEARCH FACILITIES: The undergraduate program combines a strong geography background with additional coursework emphasizing physical and socioeconomic systems, spatial analysis/GIS, or an approved minor related to geography. The Master's program specializes in the areas of glacial geology, paleoecology, biogeography, historical geography of the western U.S., water and energy resource geography, environmental governance, rural community resilience, and political ecology. Department geologists work with the geography staff in both coursework and research. Department facilities include the geomicrobiology laboratory, paleoecology laboratory, paleontology laboratory, microscopy laboratory, sedimentary geology laboratory, structural geology laboratory, the snow science laboratory, and the Resources and Communities Research Group. Facilities on campus include the Image and Chemical Analysis Laboratory, SubZero Science and

Engineering Facility, Museum of the Rockies, and the Spatial Analysis Center (GIS and Remote Sensing), HELPS Lab (Human Ecology Learning and Problem Solving)

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Semester System. Students are strongly encouraged to start in fall. Open enrollment; Land Grant College. Undergraduate scholarships include the Earth Sciences Scholarship awarded annually for demonstrated geographic academic ability in Earth Science and an M.J. Edie Scholarship is awarded annually to the outstanding geography student. The Kenny Dye Scholarship is awarded to an undergraduate geology student.

Graduate: Semester system. Students should enter fall semester. Applications are strongly encouraged prior to March for entrance in August of each year. Graduate Admission Requirements: Applicants should identify a thesis advisor with whom they hope to work. Applications are examined for evidence of potential for scholarly achievement. All applicants must supply Graduate Record Examination scores, transcripts, and three letters of recommendation. International students must submit TOEFL scores. Additional course work may be required to make up undergraduate deficiencies in geography. Financial Aid: The Department has several graduate teaching assistantships which usually carry remission of out-of-state tuition. Opportunities for employment on faculty research grants are occasionally available. An M.J. Edie Scholarship is awarded annually to an outstanding graduate student and a Barry C. Bishop Scholarship is given to support field research in mountain environments. The Marathon Oil Company scholarship is awarded to a graduate student working on petroleum related research. The Donald L. Smith Scholarship is awarded to a geology student focused on field based research.

FACULTY:

Jean Dixon, Ph.D., Dartmouth College, 2009, Assistant Professor of Geomorphology — Landscape evolution, feedbacks between physical erosion and chemical weathering, earth surface geochemistry

Julia Haggerty, Ph.D., University of Colorado-Boulder, 2004, Assistant Professor of Geography — Environmental governance, resource management, energy policy

Jordy Hendriks, Ph.D., University of Canterbury, NZ, 2005, Associate Professor of Geography — Snow and avalanche hazard, climate change, snow hydrology, and alpine and arctic systems

Mary S. Hubbard, Ph.D., Massachusetts Institute of Technology, 1988, Professor of Geology — Structural geology, tectonic history of mountain belts

David R. Lageson, Ph.D., Wyoming, 1980, Professor of Geology — Structural geology, fold-and-thrust belt geology, regional tectonics

Andrew K. Laskowski, Ph.D., University of Arizona, 2016, Assistant Professor of Geology — Structural geology and tectonics in southern Tibet and western U.S.

Jamie McEvoy, Ph.D., University of Arizona, 2013, Assistant Professor of Geography — Human-environment interactions in Mexico and western U.S., political ecology of water management, climate change vulnerability and adaptation

Dave McWethy, Ph.D., Montana State University, 2007, Assistant Professor of Geography — Human-set fires and their consequences, late Holocene paleoecology, fire-climate linkages on multiple temporal and spatial scales,

Madison Meyers, Ph.D., University of Oregon, 2017, Assistant Professor of Geology — Reconstructing the storage conditions, magma evolution, and decompression history of volcanic products, trigger mechanisms of eruptive behavior

Devon A. Orme, Ph.D., University of Arizona, 2015, Assistant Professor of Geology — Tectonics, sedimentology & stratigraphy, basin analysis, low-temperature thermochronology, forearc basins, convergent margins

Mark L. Skidmore, Ph.D., Alberta, 2001, Professor of Geomicrobiology — biogeochemistry and geomicrobiology of glaciated systems

David J. Varricchio, Ph.D., Montana, 1995, Professor of Paleontology — taphonomic studies, the dinosaur Troodon, reproduction in the theropod-bird lineage

Cathy Whitlock, Ph.D., Washington, 1983, Professor of Earth Sciences — quaternary environmental change, data model comparison of past climate change

William K. Wyckoff, Ph.D., Syracuse, 1982, Professor of Geography — historical, cultural, settlement of North America

ADJUNCT INSTRUCTORS & AFFILIATES:

Conrad Anker, Honorary Doctorate, University of Utah, 2017 — Climate change and its effects on glaciers in the Greater Himalayas and around the world, geology of Himalayas, culture and adaptations of mountain people in relation to their environment.

David Eby, Ph.D., State University of New York at Stony Brook, 1977 — Carbonate reservoir characterization, microbialite reservoirs and depositional settings, carbonate sedimentology and diagenesis, non-marine carbonates, carbonate outcrop analogue studies, stratabound ore deposits, CO₂ sequestration pilot studies, terrestrial analogues for Martian sedimentary deposits

Andrew C. Epple, M.S. University of Utah, 1978, Adjunct Instructor — Physical & Cultural Geography

Jeff Fox, Ph.D., Columbia University, 1972 — Processes that create oceanic lithosphere along Mid-Oceanic Ridge System, architecture and nature of oceanic crust, tectonic reconstructions of the ocean basins of the North Atlantic, consequences of geostrophic circulation on distribution of sediments in the western North Atlantic

Nicolas Fox, MSc., Montana State University, 2017 — Provenance, sedimentology and stratigraphy, tectonics, GIS, Remote Sensing

Anita Moore-Nall, Ph.D., Montana State University, 2017 — Structural geology, hydrothermal brecciation processes, economic and industrial mineral exploration, medical and environmental geology and geography, cultural earth science, climate change

Christopher Organ, Ph.D., Montana State University, 2004 — Macroevolution, phylogenetic comparative methods, evolutionary genomics, paleobiology

Gregory T. Pederson, Ph.D., University of Arizona, 2010, Adjunct Researcher — Climate change, water resources, and ecosystem interactions, Documenting and understanding the last 2,000 years of drought, streamflow, snowpack, glacier and forest fire dynamics in western North America

Russell Stands Over Bull, Ph.D., Geology, Colorado School of Mines, 1999, Adjunct Faculty — Petroleum resource analysis and coal bed methane production

Sandra Underwood, Ph.D., University of California-Berkeley, 1987; Montana State University, 2009 — Igneous petrology, volcanology, Proterozoic geothermal systems, burial metamorphism

RESEARCH FACULTY:

David Bowen, Ph.D., University of Colorado, Assistant Research Professor — surface and subsurface analysis of sedimentary basins and the stratigraphy of basin-fill deposits

Frankie Jackson, Ph.D., Montana State University, 2007, Assistant Research Professor — Abnormal eggshell formation in extant and fossil dinosaur eggs, possible inferences regarding dinosaur reproductive anatomy and taphonomy

David W. Mogk, Ph.D., University of Washington, 1984 — Evolution of Precambrian crust in SW Montana, petrogenesis of continental crust, geochemical evolution of the crust

Colin Shaw, Ph.D. University of New Mexico, Albuquerque, 2001, Affiliate Research Scientist — Structural geology, metamorphic petrology, field mapping, microstructural analysis, thermochronology

UNIVERSITY OF MONTANA

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1956

GRADUATE PROGRAM FOUNDED: 1965

DEGREES OFFERED: B.A., B.S., M.A., M.S.

GRANTED 9/1/17- 8/31/18: 19 Bachelors, 10 Masters

STUDENTS IN RESIDENCE: 67 Majors, 25 Masters

CHAIR: David Shively

FOR FURTHER INFORMATION CONTACT: Department of Geography, University of Montana, Stone Hall 208, Missoula, Montana 59812-0648. Telephone: (406) 243-4302. Fax: (406) 243-4840. E-mail: geog@umontana.edu. <http://hs.umd.edu/geography/>

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers baccalaureate and graduate degrees with or without options, focusing on Mountain Environments, Community and Environmental Planning, and Geospatial Technologies and Perspectives/GIS. The Bachelor of Arts program is designed to provide students with an integrative, liberal-arts education, while the Bachelor of Sciences offers a stronger footing in mathematics and sciences (STEM). The B.A. is offered with option in Community and Environmental Planning, and the B.S. can be pursued with option in Physical Geography. We also offer an interdisciplinary Certificate in GIS Sciences and Technologies and house an undergraduate Minor in Mountain Studies. The minor takes an interdisciplinary approach to the study of mountain geography and human-mountain relations, drawing on courses in geography, geosciences, biology, forestry, and recreation management. Additionally, the Department of Geography contributes to two interdisciplinary minors: the Minor in Climate Change Studies, and the Minor in International Development Studies. Pursuit of a Geography major in combination with a minor in an allied field has become increasingly common. Students majoring in secondary education may elect geography as a major or minor area of endorsement.

The Master of Arts is offered without option (general geography) and the Master of Science is offered without option, with option in Cartography and GIS, and with option in Community and Environmental Planning. Geography graduate program with or without options give students the opportunity to pursue one of the following tracks: a thesis track, a professional paper track, or a non-thesis (exam and portfolio) track. The choice of tracks offers graduate students much flexibility in matching their graduate education with their career goals. Credits vary by option and track, typically requiring a commitment of two years. Interdepartmental collaboration and research based upon field work are encouraged. Further information can be found at the department's website <http://hs.umd.edu/geography/>.

Geography's Geospatial Research and Teaching (GReaT) Laboratories are comprised of a 24-seat teaching classroom and a 18-seat student-use lab. A comprehensive selection of GIS software is available, including ArcGIS, ENVI, Erdas, Idrisi, PCI Geomatica, TransCAD, GeoDa, Feature Analyst, LiDAR Analyst, Sketchup Pro, MapViewer, Surfer, Grapher, and Trimble products. Additional software includes SPSS, R, NVIVO, Adobe Creative Suite, Microsoft products, and more.

ACADEMIC PLAN, ADMISSION REQUIREMENTS AND FINANCIAL AID: The University of Montana operates on a semester system, with two sixteen-week semesters; a three-week winter session in January; two five-week and one ten-week summer sessions; as well as specialized short-course sessions.

Prospective undergraduate students should consult the current *University of Montana Catalog* at <http://catalog.umd.edu/>, and/or

contact Admissions and New Student Services at <http://admissions.unl.edu/>, for information regarding admission requirements.

Graduate applications must be accompanied by official transcripts from all colleges and universities attended, three letters of recommendation, official GRE and TOEFL (if appropriate) scores, and a letter of intent, explaining why an applicant wishes to pursue a graduate degree in Geography and why in our department. Completed applications must be received by February 15th for Fall Semester Admission and TA consideration. To be considered for a teaching assistantship, applications must include a letter stating interest in and describing qualifications for a TAship. Applications for admission may be considered after February 15th based on available capacity. Information regarding the graduate application procedure is available on the University of Montana's Graduate School website, <http://www.umt.edu/grad/>, and the Department of Geography's website.

The Department of Geography has several graduate teaching assistantships that carry a stipend and remission of tuition. The department is also allotted several part-time positions for undergraduate students through the university's work-study program. Opportunities for employment related to faculty research or consulting projects are increasingly available. Information regarding other potential sources of financial assistance can be obtained from the Financial Aid Office <http://www.unl.edu/finaid/>

FACULTY:

Sarah J. Halvorson, Ph.D., Colorado, 2000, Professor — health, gender, water resources, mountain environments, hazards, qualitative methods, Asia, Africa
Anna E. Klene, Ph.D., Delaware, 2005, Professor — climate, cryosphere, global change, remote sensing and GIS, Arctic and mountain geomorphology
Christiane von Reichert, Ph.D., Idaho, 1992, Professor — migration, economic geography of rural areas, transportation, quantitative methods, socio-demographic analysis, Europe
David D. Shively, Ph.D., Oregon State, 1999, Professor and Chair — community and environmental planning, water resources management, hazards, North America
Christiane von Reichert, Ph.D., Idaho, 1992, Professor — community, population and migration, rural areas, economic geography, socio-demographic analysis, transportation, Europe

EMERITUS FACULTY:

John M. Crowley, Ph.D., Minnesota, 1964, Professor Emeritus — mountains, biogeography, Rocky Mountains, Montana
John J. Donahue, Ph.D., Syracuse, 1971, Professor Emeritus — landforms, aerial-photograph interpretation, GIS
Jeffrey A. Gritzner, Ph.D., Chicago, 1986, Professor Emeritus — cultural, historical, political, agricultural, environmental change, environmental planning, Middle East and Central Asia, Africa, The American West
Paul B. Wilson, Ph.D., Nebraska-Lincoln, 1972, Professor Emeritus — cartography and GIS, urban, North America

AFFILIATED FACULTY & ADJUNCT INSTRUCTORS:

Heather Almquist, Ph.D., Lund (Sweden), 1994
Kyle Balke, M.S., Montana, 2010
Alton Byers, Ph.D., Colorado, 1987
Laura Caplins, Ph.D., Montana, 2017
Claudia Carr, Ph.D., Chicago, 1977
John DiBari, Ph.D., Arizona, 2002
Faith Ann Heinsch, Ph.D., Texas A&M, 2002
Zachary A. Holden, Ph.D., Idaho, 2008
Ia Iashvili, Ph.D., Tbilisi State, Georgia, 1998
Rebecca Kranitz, M.S., Montana, 2017
Kevin G. McManigal, M.S., Montana, 2011
Irena Mrak, Ph.D., Ljubljana, Slovenia, 2009

Erich Peitzsch, M.S., Montana State University, 2009
Fernando Sánchez-Trigueros, Ph.D., Rovira i Virgili, Spain, 2013
Michael Walther, Ph.D., Freie University of Berlin, 1984

NEBRASKA

UNIVERSITY OF NEBRASKA - LINCOLN

GEOGRAPHY

DATE FOUNDED: 1906

GRADUATE PROGRAM FOUNDED: 1906

DEGREES OFFERED: BA, BS, MA, PhD

DEGREES GRANTED 2017-2018: 12 Bachelors, 5 Masters, 1 PhD

STUDENTS: 43 Majors, 9 Masters, 6 PhD

DEPARTMENT CHAIR: Diana Pilson

GRADUATE CHAIR: Diana Pilson

FOR INFORMATION CONTACT: Geography Program, College of Arts and Sciences, 1223 Oldfather Hall, University of Nebraska-Lincoln, Lincoln, NE 68583-0312. Telephone: (402) 472-2891. Fax: (402) 472-1123 E-mail: dpilson@unl.edu. Internet: <http://geography.unl.edu>

PROGRAMS AND RESEARCH FACILITIES:

Undergraduate: Students can earn either a Bachelor of Arts or Bachelor of Science in Geography. The undergraduate program provides a broad liberal arts education in physical, human and regional geography combined with courses in Geographic Information Science (remote sensing and GIS), research skills and quantitative methods. The program prepares students for positions in government and industry, and for graduate work in geography or related fields.

Graduate: Graduate students can pursue either a MA or PhD in Geography. Students have considerable flexibility in designing programs tailored to their individual interests and career goals. Particularly strong programs exist in: (1) *Geographic Information Science* (remote sensing and GIS), capitalizing on the strengths and facilities of the Center for Advanced Land Management Information Technologies (CALMIT) and National Drought Mitigation Center (NDMC); (2) *Historical and Human Geography*. Continuing a long tradition of research in cultural and regional geography, students and faculty foci include historical settlement, land use change, environmental perception, Native American studies, Great Plains studies, population and settlement patterns and political behavior; and (3) *Community and Regional Planning*. Students may pursue a cross-disciplinary MA or PhD combining strengths of Geography and the Department of Community and Regional Planning.

Geography faculty and student offices are located in Oldfather Hall on the City Campus. Students have access to state-of-the-art computing including image processing and GIS software such as ArcGIS, ERDAS Imagine and ENVI. Through CALMIT, UNL geographers have opportunities to use unique close-range remote sensing capabilities and an aircraft for supporting remote sensing research. Faculty and students in Geography regularly collaborate with UNL's Center for Great Plains Studies, the Department of Community and Regional Planning, and the University of Nebraska Medical Center.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: UNL operates on the semester system. Students seeking admission to the MA program should have a BA or BS degree in geography or a cognate field. GRE scores are required. The MA

requires 30 hours of coursework (including thesis). A non-thesis MA option requires 36 hours of coursework. For admission to the PhD program, applicants should have a Master's degree in geography or a related field (with thesis). GRE scores are required. Approximately 36 hours of coursework are required, plus a dissertation, written and oral comprehensives and proficiency in one research tool.

Graduate teaching assistantships are available for qualified Master's and Ph.D. students. Assistantships provide 12 hours of tuition each semester and basic individual student health insurance at a reduced premium. Graduate teaching assistants work approximately 15 hours per week, most commonly as laboratory instructors. MA students are eligible for two years of support, and PhD students for three years of funding. University fellowships are available to persons with outstanding qualifications. Completed applications are due January 15 for those wishing to be considered for financial aid and due April 15 for admission only. The University of Nebraska is an Affirmative Action Equal Opportunity Institution.

FACULTY:

- J. Clark Archer, PhD, Iowa, 1974, Professor* — political, settlement, computer cartography, GIS
- Rebecca A. Buller, PhD, Nebraska, 2009, Assistant Professor of Practice* — historical and cultural geography, historical geography of the Great Plains, human trafficking, women's and gender studies
- Kenneth Dewey, PhD, Toronto, 1973, Professor* — climate variations, severe weather
- Paul R. Hanson, PhD, Nebraska, 2005, Associate Director of SNR and Professor* — geomorphology and landforms, climate change, physical geography of Nebraska and the Great Plains
- R. M. (Matt) Joeckel, PhD, Iowa, 1993, Professor* — surficial processes and landforms, soils and weathering, physical geography of Nebraska and the Great Plains
- Cody Knutson, PhD, Nebraska, 2004, Research Associate Professor* — environmental, development, and cultural, water resources and drought, risk management, environmental perceptions and justice, participatory decision making, qualitative/quantitative methods
- Katherine Nashleanas, PhD, Nebraska, 2005, Lecturer* — human geography, ethnic studies, Africa, human dimensions of natural resources
- Brian D. Wardlow, PhD, Kansas, 2005, Associate Professor* — remote sensing, GIS, drought, land use/land cover characterization, biogeography, and environmental studies
- David J. Wishart, PhD, Nebraska 1971, Professor* — historical, dispossession of indigenous peoples, epistemology of Geography and History; Great Plains
- Rebecca Young PhD, Nebraska, 2015, Lecturer* — physical geography, soils geomorphology

AFFILIATED FACULTY:

- Rodrigo F. Cantarero, PhD, Southern California, 1988, Associate Professor, Community and Regional Planning* — urban and regional planning, GIS
- Ge Lin, Ph.D. SUNY at Buffalo, 1996, Associate Professor, Department of Health Services Research & Administration, College of Public Health, University of Nebraska Medical Center* — geographic information systems, spatial statistics and modeling, health geography
- Yunwoo Nam, PhD, Pennsylvania, Associate Professor, Community and Regional Planning* — public policy and urban spatial structure, GIS & analytic methods in planning, metropolitan policy, urban modeling, land use & transportation interaction, policy processes and networks
- Gordon Scholz, MBA, Nebraska-Omaha, 1974, Professor, Community and Regional Planning* — historic preservation, land development, planning and design
- Zhenghong Tang, PhD, Texas A&M, 2007, Assistant Professor, Community and Regional Planning* — GIS and risk analysis

UNIVERSITY OF NEBRASKA AT OMAHA

DEPARTMENT OF GEOGRAPHY-GEOLOGY

DATE FOUNDED: 1958

GRADUATE PROGRAM FOUNDED: 1965

DEGREES OFFERED: B.A., B.S., M.A.

GRANTED 9/1/16-8/31/17: 20 Bachelors, 8 Masters

STUDENTS IN RESIDENCE: 114 Majors, 68 Masters

NOT IN RESIDENCE: 9 Masters

PROGRAM DIRECTOR: Rex Cammack

DEPARTMENT ADMINISTRATIVE ASST: Brenda Todd

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chair, Graduate Program Committee, Department of Geography-Geology, University of Nebraska at Omaha, Omaha, Nebraska 68182-0199. Telephone (402) 554-2662. Fax (402) 554-3518. Web www.unomaha.edu/geogeo/.

PROGRAM AND RESEARCH FACILITIES: The Graduate Program in Geography provides training in the basic geographic skills and opportunity for graduate work in a spectrum of systematic and scientific fields. The Master of Arts degree consists of 30 hours; 24 hours of approved graduate work and 6 semester hours of thesis. A non-thesis option is also offered for 36 hours of coursework, to include comprehensive written and oral examinations. Individual programs of study are designed for incoming graduate students on the basis of previous course work and personal interviews. The History and Philosophy of Geography and Research Methods courses are required of all graduate students.

Introductory, advanced, and seminar courses are offered in four major areas of study: 1) Geographic Information Science (GIScience) - Computer Mapping and Visualization, Geographic Information Systems, Environmental Remote Sensing, Cartographic Methods, Quantitative Analysis; 2) Physical & Environmental Geography-Conservation of Natural Resources, Biogeography, Geomorphology, Climatology, Field Methods, Soils, Water Resources; 3) Urban-Regional Planning-Urban Geography, Land Use, Metropolitan Planning, Urban Community, Internship in Regional Planning; 4) Human Geography-Political Geography, Economic Geography, Cultural Geography, Feminist Geography. Students generally specialize in one area but are encouraged to take courses in all four.

The Department of Geography and Geology houses state-of-the-art laboratory and computational facilities. Separate computer labs for cartography and GIS support instruction and research. The cartography lab consists of 10 Macintosh Pro computers with 24" monitors. The GIS lab houses 16 PC computers with dual 19" monitors. Software includes Adobe CS and ESRI ArcGIS. The department also contains the Remote Sensing and Geocomputation Laboratory that contains state-of-the-art computer systems and software. The laboratory is used for classroom instruction and research by students and faculty.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: The Department offers B.A. and B.S. degrees in geography, geology, environmental geography and planning, and environmental earth sciences, as well as a certificate in Geographic Information Systems.

Geography majors are required to take a core of required courses in human, physical and regional geography, plus cartography for a minimum of 24 semester hours. In addition, they must take at least one systematic, one regional and one techniques course to satisfy the undergraduate distribution requirements. Twelve hours of electives, at

the upper-division level, complete the minimum of 36 hours for a degree in geography. Sixteen hours of a foreign language are required for the B.A., and fifteen hours of designated math, statistics, computer science and writing courses are required for the B.S. The environmental studies major has an earth science track with emphasis mostly in geology and physical geography, and a geography and planning track with emphasis in geographic techniques.

Graduate: An applicant for admission should have a prerequisite minimum of 15 semester hours of geography, including human and physical geography and cartography, with a minimum GPA of 3.0 on a 4.0 scale in the major program. A good background in physical geography is expected for teaching assistants. Deficiencies must be made up during the student's first year. Students are expected to be familiar with basic computer skills and statistics, as well as collateral courses in the physical sciences, economics, history, and sociology relevant to the geographical interests in which the student wishes to specialize. Students interested in remote sensing and GIS must have computer programming skills.

A number of assistantships are available each year for qualified applicants. Most assistants teach laboratories or discussions in physical geography. The standard ten-month assistantship carries a stipend of \$13,030 plus remission of twelve hours of tuition each semester including summer school. Assistants are expected to work about 20 hours per week.

UNO is committed to a program of affirmative action. Applications for admission and for graduate assistantships from women and members of minority groups are encouraged. As an equal opportunity employer, UNO is seeking the best qualified persons for graduate assistantships.

All applications to the Geography Graduate Program are handled through UNOs Graduate Studies website: <http://www.unomaha.edu/graduate/>. Applications to the graduate program require: a letter of intent, a resume, and two letters of recommendation. The GRE is recommended for admission to the program but is required to be considered for a teaching assistantship. Teaching assistantship forms can be found on the department's website: http://www.unomaha.edu/geogeo/geography_graduate.php. Applications should be received by March 1 to be considered for an assistantship. Further questions about the geography graduate program can be directed to: Dr. Christina Dando, Graduate Program Chair, Department of Geography-Geology, University of Nebraska at Omaha, Omaha, NE 68182-0199. Phone: (402) 554-3134. Email: cdando@unomaha.edu.

FACULTY:

Bradley J.F. Bereitschaft, Ph.D., University of North Carolina at Greensboro, 2011, Associate Professor — urban geography, physical geography, urban environmental, sustainability, urban sprawl and air quality
Rex G. Cammack, Ph.D., University of South Carolina-Columbia, 1995, Associate Professor — geographic information systems, cartography, behavioral, remote sensing, agricultural geography, windmills and grain elevators
Christina E. Dando, Ph.D., University of Wisconsin-Madison, 2000, Professor — human geography, Great Plains, gender and landscape, landscape perception, geographies of the media
Ashlee L.D. Dere, Ph.D., The Pennsylvania State University, 2014, Assistant Professor — The Critical Zone, soils, geomorphology
George F. Engelmann, Ph.D., Columbia, 1978, Professor — vertebrate paleontology, tertiary stratigraphy and sedimentology, biogeography
Karen F. Falconer Al-Hindi, Ph.D., Kentucky, 1993, Professor — feminist geography, gender and work, history and philosophy of geography, research methods
Harmon D. Maher, Jr., Ph.D., Wisconsin-Madison, 1984, Professor — structural geology, tectonics, environmental geology, history

and philosophy of geology, Svalbard, Norway, southern Appalachians

Petr Pavlinek, Ph.D., University of Kentucky, 1995, Professor — political, economic, development, regional restructuring, political economy, political ecology, transition in Central and Eastern Europe

Michael P. Peterson, Ph.D., SUNY Buffalo, 1982, Professor — computer-assisted cartography, remote sensing, geographic information systems

Robert D. Shuster, Ph.D., Kansas, 1985, Associate Professor — mineralogy, petrology, geochemistry

TECHNICAL STAFF:

Paul Hunt, M.A., University of Nebraska at Omaha, 2009, Coordinator — Cartography and GIS

NEVADA

UNIVERSITY OF NEVADA, RENO

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1947

GRADUATE PROGRAM FOUNDED: 1993

DEGREES OFFERED: B.S. and B.A. in Geography; M.S. in Geography; Ph.D. in Geography

GRANTED 9/1/17-8/31/18: 8 Bachelors, 2 Masters, 1 Ph.D.

STUDENTS IN RESIDENCE: 50 Majors, 11 Masters, 15 Ph.D.

CHAIR: Jill S. Heaton

DEPARTMENT ADMINISTRATIVE ASST: Prisilia Maldonado-Masegian

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography, University of Nevada, Mail Stop 0154, Mackay Science Bldg. Room 201, Reno, Nevada 89557-0048. Telephone (775) 784-6995. Fax (775) 784-1058. Internet: <http://www.unr.edu/geography/>. Email: geography@unr.edu

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE: Geography at Nevada emphasizes human-environment interactions. Our curriculum and research specialize in the study of desert and mountain landscapes and people in arid and mountainous environments. The Department emphasizes the integration of human and physical geography and encourages the use of geospatial technologies (GIS, Remote Sensing, and Cartography). Our approach encourages problem solving that utilizes spatial reasoning and the analysis of questions at multiple spatial scales: local, regional and global.

The Department of Geography houses a dendrochronology laboratory and palynology laboratory for paleoclimate reconstruction, the Office of the State Climatologist and UNR weather station, an extensive map collection, and equipment for field studies focusing on mountain environments, climatology, environmental reconstruction, and water resources. The Department contains a laboratory for cartography and computer mapping and a center for the study of geographic information systems (GIS). There are exceptional facilities for the analysis of remotely sensed data available through the Mackay School of Earth Sciences and Engineering, of which the Department is a part. The University is comprised of the full range of programs and facilities found in land-grant institutions. The Knowledge Center at the University contains an excellent journal collection.

GRADUATE: Geography at Nevada emphasizes the study of landscape change and human-environment interactions in arid and mountainous landscapes. The Department emphasizes the integration of human and physical geography and encourages the use of geospatial technologies (GIS, Remote Sensing, and Cartography). Our department has a strong physical geography component that seeks to understand pattern and process within nature. We have strengths in cultural and historical geography that seek to understand pattern and process within societies. Where studies of nature and society meet, we study the effects of human ideas, systems and activities on the environment. And looking at human-environment interactions from a different perspective, our work also encompasses how the environment establishes contexts and constraints for human ideas, systems and activities.

Reno is uniquely situated for the study of geography and land use planning in a growing state. The location offers ready access to the Sierra Nevada, high deserts, the Basin & Range physiographic province, and to recreational and research opportunities at Lake Tahoe, with Reno a three-hour drive from the San Francisco Bay Area.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Admission to the graduate program is determined from a combination of grade point average, GRE scores, statement of purpose, and three letters of reference. Applications are due February 01 for the following Fall semester. See the university catalog for academic requirements for each program. There are, at present, eighteen graduate teaching and research assistantships available. We award forty-plus undergraduate and graduate scholarships annually.

FACULTY:

Thomas P. Albright, PhD, Wisconsin-Madison 2007, Assistant Professor — conservation biogeography; ecoclimatology; landscape ecology and remote sensing
Scott D. Bassett, D.Des., Landscape Architecture and Environmental Planning, Harvard, 2001, Associate Professor — land use planning, GIS, spatial modeling, conservation biology
Kate A. Berry, PhD, Colorado, 1993, Professor — water resources, Native American and ethnic geography, law and public policy
Douglas P. Boyle, PhD, Arizona 2001, Associate Professor — surface water hydrology; snow hydrology; integrated modeling, paleoclimate modeling
Jessie Clark, PhD, Arizona, 2012, Assistant Professor — political geography, feminist geography, Kurdish and Turkish geography
Adam Csank, PhD — paleoclimatology, plant-climate interactions, stable isotope geochemistry, dendrochronology, ecohydrology
Jill S. Heaton, PhD, Oregon State University, 2001, Associate Professor — arid land ecology, GIS, spatial statistics
Scott Kelley, PhD, Arizona State University, 2015, Assistant Professor — transportation systems, alternative fuels, emerging transportation technologies, travel behavior, GIS, network analysis, spatial modeling, infrastructure
Stephanie McAfee, PhD, Arizona, 2009, Assistant Professor — climatology, climate services, high-latitude geography
Scott A. Mensing, PhD, UC Berkeley, 1993, Professor — paleoecology, Quaternary studies, field methods
Kenneth Nussear, PhD, University of Nevada, Reno, 2004, Assistant Professor — spatial Ecology, Species Distributions, Distributional limitations, Habitat connectivity, Biophysical Ecology, Conservation Biology, Herpetology
Kerri Jean Ormerod Ph.D., Geography, University of Arizona, Tucson, 2015, Assistant Professor — environmental governance, drought hazards, socio-cultural components of risk perception, urbanization, sanitation, infrastructure, and common sense.
Victoria S. Randlett, PhD — urban, historical, social, geography of food and food systems
Paul F. Starrs, PhD, UC Berkeley, 1989; Regents & Foundation Professor of Geography, Past-Editor Geographical Review —

natural resources, cultural, Mediterranean landscapes, Nevada and the American West, historical

Scotty Strachan, MS, University Nevada, Reno, 2010, Research Faculty — dendrochronology, environmental monitoring, great basin climatology water resources

ADJUNCT FACULTY:

Nigel J.R. Allan, PhD — mountain environments, cultural geography, history of geographic thought
Michael Dettinger, PhD — Atmospheric rivers, Great Basin and western weather and rain shadowing in eastern Sierra Nevada
Christine Johnson, PhD — Curator of Artifacts and Education, Human and Cultural Geography
Alexandra Lutz, PhD — International water development, groundwater hydrology
Catherine Magee, PhD — Director of the Nevada Historical Society, Cultural Geography, Objects conservation
Kenneth McGwire, PhD — energy and water balance; vegetation analysis; remote sensing
Kenneth Nussear, PhD — distributional limitations of plants and animals; desert ecology; physiological ecology; conservation biology
Anna Klimaszewski-Patterson, PhD — Paleocology, Biogeography, GIS Applications in Landscape Modeling, Predictive Models, Environmental Archaeology and Climate Change, Mobile Devices as Geographic Tools
Jeremy Smith, PhD — GIS Coordinator at Truckee Meadows Regional Planning Agency
Tamara Wall, PhD — drought, fire, hazards perceptions, participatory governance
Peter E. Wigand, PhD — geoarcheology, paleoecology, pollen and packrat midden analysis

NEW HAMPSHIRE

DARTMOUTH COLLEGE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1942

DEGREES OFFERED: B.A.

GRANTED 9/16-6/17: 38 Bachelors

MAJORS: 80

CHAIR: Christopher Sneddon

DEPARTMENT ADMINISTRATOR: Kelly Palmer

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Professor Christopher Sneddon Department of Geography, Dartmouth College, 6017 Fairchild Hall, Hanover, New Hampshire 03755-3571. Telephone (603) 646-3378. Fax (603) 646-1601. E-mail: Geography@Dartmouth.edu. Internet: www.geography.dartmouth.edu

PROGRAMS AND RESEARCH FACILITIES: Geography is housed in the Fairchild Science Center. Departmental facilities are excellent, and include well-equipped Geographic Information Systems Center, spatial analysis and remote sensing laboratories, sedimentology laboratory, and fully-equipped classrooms. Baker Library holds one of the nation's finest collections of atlases and sheet maps, as well as a magnificent array of journals and books for study and research in geography. The Stefansson collection of Arctic materials is especially noteworthy. In addition to fieldwork carried out in the local area, the department sponsors an off-campus program in Prague.

ACADEMIC PLAN, ADMISSION REQUIREMENTS AND FINANCIAL AID: Quarter system. Students academically qualified

for admission find that Dartmouth has a generous financial aid plan, and over half of the students receive support from either scholarships or loans. In addition, student research is often funded by Waterhouse, Richter, Mellon, and Rahr grants.

FACULTY:

Jonathan W. Chipman, Ph.D., University of Wisconsin-Madison, 2001
— Remote Sensing, GIS, Spatial Analysis & Modeling
Ethan Coffel, Ph.D. Candidate, Columbia, 2018, Postdoctoral Fellow
— Climate change, extreme weather events, climate impacts
Joshua J. Cousins, Ph.D., University of Michigan, 2016, Postdoctoral Fellow
— Political ecology, urban geography, water resources, resource governance, sustainability
Mona Domosh, Ph.D., Clark University, 1985, Professor — Urban, historical, cultural, gender
Treva Ellison, Ph.D., University of Southern California, 2015, Lecturer — Carceral geographies, queer history, social movements
Sujin Eom, Ph.D., University of California, Berkeley, 2017, Postdoctoral Fellow — Transnational architecture, Asia Pacific, migration and race, global urban history, postcolonial studies
Coleen A. Fox, Ph.D., University of Oregon, 2000, Senior Lecturer — Southeast Asia, political ecology, water resources
Susanne Freidberg, Ph.D., University of California - Berkeley, 1996, Professor — Agro-food, political ecology, science and technology studies, development
Yui Hashimoto, Ph.D. Candidate, University of Wisconsin-Milwaukee, 2018, Postdoctoral Fellow — Feminist economic geography, critical geographies of race, urban redevelopment, multi-racial solidarities
Garnet L. Kindervater, Ph.D., University of Minnesota, 2018, Lecturer — Political catastrophe and Human Critical Theory
Luis F. Alvarez León, Ph.D., University of California Los Angeles, 2016, Assistant Professor — Economic geography, geospatial data, media, and technologies, digital economy, information policy
Patricia J. Lopez, Ph.D., University of Washington, 2014, Assistant Professor — Health, development, historical militarism
Ryan E. McKeon, Ph.D., Leigh University, 2012, Lecturer — Earth surface processes, geospatial analysis, geochronology, GIS
Frank J. Magilligan, Ph.D., Wisconsin, 1988, Professor — Water resources, fluvial geomorphology, watershed science, river restoration
Justin S. Mankin, Ph.D., Stanford University, 2015, Assistant Professor — Climate variability and change, hydroclimate, land-atmosphere interactions, ecology, Earth system modeling, human impacts of climate change
Greta M. Marchesi, Ph.D., University of California, Berkeley, 2016, Visiting Assistant Professor — Settler-colonial environments, science and technology studies, soils, historical geography
Abigail H. Neely, Ph.D., University of Wisconsin-Madison, 2011, Assistant Professor — political ecology, health, development, feminist methods and science studies
Garrett G.D. Nelson, Ph.D., University of Wisconsin-Madison, 2016, Postdoctoral Fellow — Historical geography, urban and regional planning, human landscapes, social theory, North America and Europe
Aparna Parikh, Ph.D. Candidate, Pennsylvania State University 2018, Postdoctoral Fellow — feminist geography, global urbanism, neoliberalism, South Asia
Xun Shi, Ph.D., University of Wisconsin-Madison, 2002, Professor — GIS, spatial analysis, health, soil mapping
Christopher Sneddon, Ph.D., University of Minnesota, 2000, Professor — Political ecology, Southeast Asia, transnational rivers, environmental conflicts, sustainable development, river restoration
Stephanie A. Spera, Ph.D., Brown University, 2016, Neukom Postdoctoral Fellow — Land use change, remote sensing, global environmental change, Brazil, spatial analysis

Jonathan M. Winter, Ph.D., Massachusetts Institute of Technology, 2009, Assistant Professor — Climate impacts on water resources, climate change

Richard Wright, Ph.D., Indiana, 1985, Professor — Race, immigration, labor markets, housing markets

EMERITI FACULTY:

Laura E. Conkey, Ph.D., Arizona, 1982, Associate Professor Emeritus
— Dendrochronology, biogeography, climatology, field methods, feminism & science

David T. Lindgren, Ph.D., Boston, 1969, Professor Emeritus — urban, Russian, political

Vincent H. Malmstrom, Ph.D., Michigan, 1954, Professor Emeritus — regional, cultural, historical, Europe, Latin America, climatology

PLYMOUTH STATE UNIVERSITY

THE GEOGRAPHY PROGRAM WITHIN THE SOCIAL SCIENCE DEPARTMENT

DATE FOUNDED: 1975

DEGREES OFFERED: B.S. in Geography; B.S. in Environmental Planning; B.A. in Tourism Management and Policy

GRANTED 9/1/16-8/31/17: 22 Bachelors

MAJORS: 40

HEAD: Dr. Patrick May

DEPARTMENT ADMINISTRATIVE ASSISTANT:
Kathryn T. Melanson

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. Patrick May, Department of Social Science, Plymouth State University, 17 High Street, Plymouth, New Hampshire 03264. Telephone (603) 535-2501. Fax (603) 535-2351. E-Mail: pmay@plymouth.edu. Internet: <http://www.plymouth.edu/>

PROGRAMS AND RESEARCH FACILITIES: Two hours north of Boston off Interstate 93, Plymouth State University is located in the Lakes Region of New Hampshire among the foothills of the White Mountains. A beautiful valley setting at the confluence of the Baker and Pemigewasset Rivers makes Plymouth a natural destination for mountain climbing, water sports, hiking and skiing. These are popular leisure activities for the 3,500 undergraduate and 1,000 graduate students at the university.

The program also offers three degrees: BS in Geography; BS in Environmental Planning; and BA in Tourism Management and Policy. Each major integrates core courses in cultural geography, physical geography, and geographic techniques, while complementing curriculum from other fields. Each program encourages (GE) or requires (GE and TMP) a student internship of 3-9 credits with community and regional planning agencies, the travel and tourism industry, and GIS firms. These programs can also be complimented with a GIS Certificate or a new interdisciplinary Minor in Sustainability.

Upper division classes rarely exceed 20 students. Through a comprehensive advising system, the geography faculty assume a personal interest in each of the students, supervise directed undergraduate research projects, and work closely with majors in more informal environments.

The Maynard Weston Dow Geographic Information Systems Lab focuses on undergraduate instruction using ArcGIS. A site license for ArcGIS allows students to work anywhere on campus. The department supports the activities of the Institute for New Hampshire Studies and the Office of Environmental Sustainability.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University employs a 15-week semester system for Fall and Spring and optional four-week Early Spring Terms and two Summer Sessions. Admissions deadlines are April 1 for Fall and December for Spring. In addition to growing amounts of financial aid available for students, The John Ozog Award provides a \$1000+ scholarship annually to a deserving sophomore or junior who has shown academic excellence and participated in the PSU Geo Club. The Okrant Family Scholarship is also awarded to an outstanding student in Tourism Management & Policy.

FACULTY:

Adam W. Keul Ph.D., Florida State 2011, Assistant Professor — tourism geography, political economy and ecology, cultural geography, coastal studies

Hyun Joong Kim, Ph.D., Kent State University, 2007, Assistant Professor — spatial analysis, geographic information systems, remote sensing, cartography, and geographic education

Patrick May, Ph.D., University of Maryland, 1999, Associate Professor and Coordinator of Geography — cultural geography, geographic education, urban historical geography, Africa

Steve Whitman, M.S., AICP, University of Massachusetts, 1998, Contract Faculty — environmental planning, community resilience, permaculture design

EMERITUS FACULTY:

Bryon D. Middlekauff, Ph.D., Michigan State, 1987, Professor — geomorphology, biogeography, remote sensing, Australia, New Zealand, South Pacific

Mark J. Okrant, Ed.D., Oklahoma State, 1975, Professor — tourism, community planning, population, Alaska and Canada

Kurt Schroeder, Ph.D., Pennsylvania State, 1988, Professor — military geography, GIS, Europe

UNIVERSITY OF NEW HAMPSHIRE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1968

DEGREES OFFERED: B.A.

GRANTED 9/1/15-8/31/16: 10 Bachelors

MAJORS: 35

CHAIR: Mary Stampone

DEPARTMENT ADMINISTRATIVE ASST: Ginny Bannon

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Mary Stampone, Chair, Department of Geography, University of New Hampshire, 102 Huddleston Hall, 73 Main Street, Durham, New Hampshire 03824-2541. Telephone (603) 862-1719. Fax (603) 862-4362. E-mail: mary.stampone@unh.edu. Internet: <http://www.unh.edu/geography/>

PROGRAMS AND RESEARCH FACILITIES:

The department offers an undergraduate program exclusively. The program provides students a solid foundation in geography that enables them to pursue a variety of careers or enter graduate school. Students are taught primarily in small classes, allowing opportunity for close contact with faculty. Emphasis is placed on individual work, particularly in upper division courses. Students are encouraged to confer frequently with faculty regarding courses, research, internships, and career opportunities.

To earn a bachelor of arts in geography, students must complete ten geography courses—five core courses in world regional geography, human geography, physical geography, and geographic information

systems; four courses in one of three areas of concentrations; plus one elective. Geography majors must choose a concentration in human geography, environmental geography, or geotechniques. In addition to the core courses, classes are offered in urban geography, political geography, economic geography, weather and climate, landforms, natural hazards, field methods, remote sensing, and other areas. Regional courses are offered on New England, United States and Canada, Latin America, the Middle East, and China.

Faculty are currently engaged in research projects about globalization in the Middle East, immigration in New England, climate change in New England, Chinese capital and labor in global production networks, and fisheries management.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Semester system. Application for admission to the Geography program and for financial aid should be directed to the Admissions Office, Grant House, University of New Hampshire, Durham, New Hampshire. College Entrance Examination Board Scholastic Test scores required.

FACULTY:

Jennifer F. Brewer, Ph.D., Clark, 2007, Associate Professor — human-environment interactions, political ecology, common property institutions, environmental governance, fisheries, adaptation to environmental change

Tu Lan, Ph.D., North Carolina, 2014, Assistant Professor — economic geography, global production networks, transnational migration and entrepreneurship, critical theory, China, Italy

Maingi Solomon, Ph.D., West Virginia University, 2015, Lecturer — human-environment interactions, political economy of agrarian systems, environmental conflict in Africa

Mary D. Stampone, Ph.D., Delaware, 2009, Associate Professor and New Hampshire State Climatologist — climate, climate monitoring and modeling, cryosphere

Russell Congalton, Ph.D., Virginia Polytechnic, 1984, Professor, Department of Natural Resources and the Environment — remote sensing, GIS, spatial data analysis, natural resources

EMERITI FACULTY:

Robert L.A. Adams; Ph.D., Clark

NEW JERSEY

ROWAN UNIVERSITY

DEPARTMENT OF GEOGRAPHY, PLANNING & SUSTAINABILITY

DATE FOUNDED: 1970

DEGREES OFFERED: 4 baccalaureate degree programs

(See below)

GRANTED 9/1/17 – 8/31/18: 52 Bachelors

MAJORS: 224

CHAIR: Kevin Keenan

DEPARTMENT ADMINISTRATIVE ASST: Laura Ruthig

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. Kevin Keenan, Department of Geography, Planning & Sustainability, Robinson Hall, 201 Mullica Hill Rd., Rowan University, Glassboro, New Jersey 08028. Telephone (856) 256-4812. Fax (856) 256-4670. E-mail: hasse@rowan.edu. Internet: www.rowan.edu/geography

PROGRAMS AND RESEARCH FACILITIES: The Department offers four baccalaureate degree programs, nine minors and two Certificates of Undergraduate Study. The programs include a BA and minor in Geography, a BA and minor in Environmental Studies & Sustainability, a BS and Minor in Community & Environmental Planning, and a BS and Minor in GIS. The concentrations include: Geoscience, Environmental Science, Applied Geographic Knowledge and Skills (GeoEducation), Geographic Inquiries into Global Issues and Sustainable Built Environments. There are also Certificates of Undergraduate Study in Geographic Information Systems & Science and Sustainable Urbanism as well as a post baccalaureate certificate in Cartography and GIS. All of these programs integrate theory and practice, blending both academic and applied facets of geography, environment, planning, and geospatial technologies.

In support of its teaching, research and outreach, the Department houses the Geospatial Research Laboratory (GeoLab) which includes four computer labs in which students learn to use the latest, high level GIS software (a site license for the full ESRI package) using state-of-the-art hardware platforms and peripherals including large format high resolution plotters and scanners as well as survey quality global positioning system (GPS) receivers. This equipment is used by faculty for research and outreach activities. Students have full access to these labs in which they can pursue class projects and research, often working closely with faculty members.

Our Department also works closely with the College of Education to ensure that our dual major program meets the requirements and scheduling needs of education majors. Upon graduation departmental majors pursue a variety of options including continuing their education at the graduate level, teaching elementary or secondary school, working in environmental firms, as planners or as GIS specialists in various agencies, environmental protection departments, engineering firms, software development firms and in many other areas.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Rowan University is on a semester plan. The department offers all major courses in rotation during day and evening time periods, thus providing students flexibility in completing our program. We also offer a limited selection of lower and upper division courses during the summer term. Admission requirements include high school diploma or GED equivalency, and either SAT or ACT scores. Financial aid programs include loans, grants, scholarships, and employment.

GEOGRAPHY, PLANNING & SUSTAINABILITY FACULTY

Zachary Christman, Ph.D., Clark University, 2010, Assistant Professor — landscape change, GIS, remote sensing, vulnerability, health
Patrick Crumrine, Ph.D., University of Kentucky, 2003, Associate Professor — aquatic ecology, community ecology, conservation biology
John Hasse, Ph.D., Rutgers University, 2001, Professor — land use planning, GIS, sustainability, geography storytelling
Jordan Howell, Ph.D., Michigan State University, 2013, Assistant Professor — waste, Hawaii, North America, technology, environmental policy
Kevin Keenan, Ph.D., Clark University, 2009, Chair/Associate Professor
Jennifer Kitson, Ph.D., Arizona State University, 2015, Assistant Professor — urban, cultural, sensory and aesthetic experience, non-representational theory, sustainable urbanism
Charles McGlynn, Ph.D., Rutgers University, 2011, Instructor — water resources, population, Asia, American and Russian studies
Mahbubur Meenar, Ph.D., Temple University, 2014, Assistant Professor — spatial planning, green infrastructure, food environment, participatory planning, mixed-methods GIS

EMERITI FACULTY:

Edward F. Behm, M.A., Bowling Green, 1971, Assistant Professor — cultural, population, land use, Europe
Jerry N. Lint, M.Ed., Penn State, 1963, Professor — physical, climatology, Latin America
Richard A. Scott, Ph.D., Syracuse, 1982, Professor — quantitative methods, urban, computer cartography, GIS
Charles A. Stansfield, Jr., Ph.D., Pittsburgh, 1965, Professor — cultural landscapes, tourism and recreation, U.S. and Canada, British Isles
Chester E. Zimolzak, M.S., Wisconsin, 1964, Associate Professor — cartography, transportation, manufacturing, Eastern Europe
Denyse Lemaire, Ph.D., Free University of Brussels, 1992, Professor — glaciology, geology, environmental science

RUTGERS UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1949

GRADUATE PROGRAM FOUNDED: 1956

DEGREES OFFERED: B.A., M.A., M.S., M.Phil., Ph.D.

DEGREES GRANTED 9/1/16-8/31/17: 11 Bachelors, 0 Masters, 5 Ph.D.

STUDENTS IN RESIDENCE: 38 Majors, 1 Masters, 39 Ph.D.

CHAIR: Robin Leichenko

GRADUATE DIRECTOR: Laura Schneider

DEPARTMENT ADMINISTRATIVE ASST: Cleo Bartos

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Undergraduate: Office of Undergraduate Admissions, Operations Center, Rutgers, The State University of New Jersey, 65 Davidson Road, Room 202, Piscataway, New Jersey 08854-8097. Telephone (732) 445-4636. Fax (732) 445-8088. Graduate: Graduate Program in Geography, Department of Geography, Rutgers, The State University of New Jersey, 54 Joyce Kilmer Avenue, Piscataway, New Jersey 08854-8045. Telephone (848) 445-4103. Fax (732) 445-0006. E-mail: cleo.bartos@rutgers.edu. Internet: geography.rutgers.edu.

PROGRAMS AND RESEARCH FACILITIES: The graduate program in Geography at Rutgers offers rigorous interdisciplinary training in areas that reflect a diverse set of empirical questions and theoretical approaches. Much of the research conducted by program faculty falls broadly within an environment and society tradition, but other specializations are encouraged. Specific strengths of the program include: 1) *environmental geography* – political ecology; human dimensions of global environmental change; human responses to environmental hazards; institutional and cross-cultural aspects of resource management involving forestry, fisheries, wildlife conservation, mining and agriculture; environmental justice; public health and risk communication; 2) *urban/economic geography and social theory* – globalization; uneven development; contemporary urban development, revitalization and gentrification; diverse economies; grassroots politics; citizenship; democratic theory and practice; housing, residential segregation, and community control of land use; gender; race; nationalism; 3) *physical geography* – climatology and climate change; snow-cover dynamics; cryosphere; hydrology; land use and land cover change; invasive species; coastal geomorphology; and 4) *geospatial information science* – remote sensing; geographic information science; spatial statistical analysis; cartography.

The university's location in the New York metropolitan region, its proximity to the diverse physical and social environments of the mid-Atlantic and Appalachian regions, and its ties to many state, national, and international organizations combine to provide compelling geographical research opportunities. The program houses the Office

of the NJ State Climatologist, and maintains close ties with a number of interdisciplinary units across the university including the Center for Historical Analysis, the Center for Cultural Analysis, Centers for African, Latin American, Latino and Hispanic Caribbean, South Asian and European Studies, the Climate Institute, the Institute of Earth, Ocean and Atmospheric Sciences and the Grant F. Walton Center for Remote Sensing and Spatial Analysis. Certificate Programs are available in Geomatics, Human Dimensions of Global Change, and Quaternary Studies.

The Department of Geography has several laboratories equipped for instruction and graduate research. The Center for Remote Sensing and Spatial Analysis and the Edward J. Bloustein School of Planning and Public Policy also contain excellent facilities for remote sensing and geographic information systems and are accessible to students through participating geography graduate faculty.

GRADUATE PROGRAM ADMISSION REQUIREMENTS AND FINANCIAL AID: The program offers four-year funding packages to a limited number of qualified applicants consisting of a combination of fellowships and teaching assistantships. All application materials must be received by January 15 for admission the following academic year.

FACULTY (members of core department and graduate program):

- D. Asher Ghertner, Ph.D., California-Berkeley, 2010, Associate Professor* — urban informality and governance, the political economy of displacement, political ecology, governmentality and rule, ethnography, Indian politics, the politics of displacement, rule & resistance, urban geography, development, aesthetic politics, ethnography, India
- Robin M. Leichenko, Ph.D., Pennsylvania State, 1997, Professor* — economic geography, climate change vulnerability, human dimensions of global environmental change
- Asa K. Rennermalm, Ph.D., Princeton, 2007, Associate Professor* — physical geography, hydrology, climatology, Arctic region, Greenland ice sheet
- David A. Robinson, Ph.D., Columbia, 1984, Professor, N.J. State Climatologist* — climatology, cryosphere, regional climates, physical geography
- Kevon C. Rhiney, Ph.D., University of the West Indies, 2010, Assistant Professor* — global environmental change, social and environmental justice, climate adaptation pathways, environmental disasters, small island developing states, Caribbean
- Laura C. Schneider, Ph.D., Clark, 2004, Associate Professor* — land change science, biogeography, remote sensing, GIS, and Latin America
- Richard A. Schroeder, Ph.D., California-Berkeley, 1993, Professor* — uneven development, political ecology, conservation, Africa, wildlife, mining, forestry, gender, race, nationalism
- Kevin St. Martin, Ph.D., Clark, 1999, Associate Professor* — economic geography, diverse economies, political ecology, community and commons, critical cartographies, GIS

GRADUATE FACULTY (members of graduate program only):

- Gail M. Ashley, Ph.D., British Columbia, 1977, Professor* — quaternary, sedimentology, glacial geomorphology, environmental planning
- James DeFilippis, Ph.D., Rutgers, 2000, Associate Professor* — community development, housing policy, immigration, labor
- Michael R. Greenberg, Ph.D., Columbia, 1969, Professor* — environmental health and risk analysis, nuclear waste management
- Heidi Hausermann, Ph.D., Arizona, 2010, Assistant Professor* — agrarian change, political ecology, land-use/land-cover change
- David M. Hughes, Ph.D., California-Berkeley, 1999, Professor* — environmental anthropology, landscape, extractive industries, Africa, Caribbean

Robert W. Lake, Ph.D., Chicago, 1981, Professor — urban and political geography, environmental politics, planning and social theory

Richard G. Lathrop, Ph.D., Wisconsin-Madison, 1988, Professor — remote sensing, geographic information systems, landscape ecology

Melanie McDermott, Ph.D., California-Berkeley, 2000, Visiting Scholar — human ecology, political ecology, community forestry, climate change

Pamela McElwee, Ph.D., Yale, 2003, Associate Professor — biodiversity, conservation, climate change, environmental change, political ecology

Kathe Newman, Ph.D., City University of New York (CUNY), 2001, Associate Professor — urban politics, urban revitalization, gentrification

Karl F. Nordstrom, Ph.D., Rutgers, 1975, Professor — coastal geomorphology and management, environmental restoration

Karen M. O'Neill, Ph.D., California-Los Angeles, 1998, Associate Professor — environmental policy, water, state building, experts, organizations

Frank J. Popper, Ph.D., Harvard, 1972, Professor — land use, environmental and regional policy, natural resources management

Edward Ramsamy, Ph.D., Rutgers, 2001, Associate Professor — development, social theory, race, culture and identity, Southern Africa

Mi Shih, Ph.D., Rutgers, 2010, Assistant Professor — land development, international urbanization, social protests and citizenship in China

David Tulloch, Ph.D., Wisconsin-Madison, 1997, Associate Professor — geo-spatial technologies; environmental and land-use planning

Lyna Wiggins, Ph.D., California-Berkeley, 1981, Associate Professor — GIS, planning methods, computer applications in planning

Ming Xu, Ph.D., California-Berkeley, 2000, Associate Professor — ecosystem ecology, remote sensing, modeling

AFFILIATED FACULTY AND STAFF:

- Carrie Mott, Ph.D., University of Kentucky, 2016, Instructor* — feminist political geographies, race, justice, social movements, pedagogies
- Paul O'Keefe, Ph.D., West Virginia University, 2015, Instructor* — development geography, political ecology, Africa
- Michael Siegel, M.L.S., Rutgers, 1983, Cartographer*

EMERITUS FACULTY:

- H. Briavel Holcomb*
Robert M. Hordon
Bonnie McCay
J. Kenneth Mitchell
Joanna Regulska
Thomas Rudel
Peter O. Wacker

NEW MEXICO

NEW MEXICO STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1992

DEGREES OFFERED: B.S. Geography, Master of Applied
Geography

GRANTED 9/1/16-5/31/17: 18 Bachelors, 3 Masters

STUDENTS IN RESIDENCE: 71 Majors, 26 Masters

DEPARTMENT HEAD: Dr. Carol L. Campbell

DEPARTMENT SECRETARY: Susan DeMar

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Carol Campbell, Head, Department of Geography, MSC MAP,
P.O. Box 30001, New Mexico State University, Las Cruces, New
Mexico 88003 - 8001. Telephone (575) 646-3509. Fax (575) 646-
7430. E-mail: geography@nmsu.edu. Internet: geography.nmsu.edu.

PROGRAMS AND RESEARCH FACILITIES: The Department of
Geography offers the following degree programs: B.S. in Geography
with concentrations in Geographic Information Science and
Technology (GIS&T) and Human-Environment Relationships (HER);
Master of Applied Geography. We emphasize GIS, remote sensing,
spatial modeling, geomorphology, biogeography, landscape ecology,
cultural geography, water policy, environmental geography, drylands,
U.S.-Mexico border, and the U.S. Southwest. We have a very strong
commitment to applied research and to providing students with
extensive field and professional experience.

The Spatial Applications Research Center provides students with
hands-on experience employing state-of-the-art GIS&T equipment.
Geography majors can receive academically-related employment and
internships. We also have a 30-seat geospatial teaching classroom with
ArcGIS, and ENVI.

New Mexico State University is a land grant institution with a main
campus enrollment of approximately 15,000 students from 49 states
and 89 foreign countries. Associated with the university are the
Jornada Experimental Range, the New Mexico Department of
Agriculture, and the Water Resources Research Institute. As a Ph.D.-
granting university, New Mexico State has a modern, well-endowed
University Library, including a map library and documents collection,
which serve as federal depositories.

**ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND
FINANCIAL AID:** Semester system with two five-week summer
sessions. Application for admission to the university may be obtained
by writing to the Office of Admissions and Records, Box 3A, New
Mexico State University, Las Cruces, New Mexico 88003 or online at
<https://admissions.nmsu.edu/> or <https://gradschool.nmsu.edu/>. A
variety of scholarships and fellowships are available through the
department, college, and university. Other financial aid in the
department includes the potential for employment as research aides in
the Spatial Applications Research Center, teaching assistants, and
general work-study positions.

FULL-TIME FACULTY:

Christopher P. Brown, Ph.D., San Diego State University, 1998,
Associate Professor — U.S. Mexico border, water resource
management, political ecology, GIS

Michaela Buenemann, Ph.D., Oklahoma, 2007, Associate Professor —
drylands, landscape ecology, GIS, remote sensing, spatial
modeling

Carol L. Campbell, Ph.D., UCLA, 2005, Associate
Professor/Department Head — biogeography, landscape
ecology, human-environment, sustainability, conservation

Michael N. DeMers, Ph.D., Kansas, 1985, Professor — GIS,
landscape ecology, geographic education, spatial cognition

Daniel P. Dugas, Ph.D., Oregon-Eugene, 1993, Assistant Professor —
geomorphology, physical geography, Quaternary environments,
soils

Eric Magrane, Ph.D., University of Arizona, 2017, Assistant Professor
— cultural geography, geohumanities, human-environment,
climate and culture, environmental narratives

EMERITUS FACULTY:

Robert J. Czerniak, Ph.D., Colorado, 1979, Professor Emeritus —
land use, community development, urban geography,
transportation planning

John B. Wright, Ph.D., California-Berkeley, 1990, Professor Emeritus
— cultural geography, environmental conservation, American
West, New Mexico

UNIVERSITY OF NEW MEXICO

DEPARTMENT OF GEOGRAPHY & ENVIRONMENTAL STUDIES

DATE FOUNDED: 1961

GRADUATE PROGRAM FOUNDED: 1970

DEGREES OFFERED: B.A., B.S., M.S.

CERTIFICATE OFFERED: Graduate Certificate in Law,
Environment, and Geography

GRANTED 9/1/2016-8/31/17: 21 Bachelors, 6 Masters

STUDENTS IN RESIDENCE: 100 Majors, 37 minors, 33
Masters

CHAIR: K. Maria D. Lane

FOR FURTHER INFORMATION WRITE TO: Department of
Geography & Environmental Studies, Bandelier West Room 222,
MSC01-1110, 1 University of New Mexico, Albuquerque, New
Mexico 87131-0001. Telephone (505) 277-5041. E-mail:
geography@unm.edu. Internet: <http://geography.unm.edu/>

PROGRAMS AND RESEARCH FACILITIES: The geography
department at UNM offers a B.A., B.S., and M.S. in geography and is
one of UNM's most vibrant departments. Our award-winning faculty
teaches engaging classes to undergraduate and graduate students
studying GIScience, spatial analysis, legal geography, environmental
policy and management, historical geography, and cartography,
among other topics. We engage both graduate and undergraduate
students in high-impact research here in the Southwest and throughout
the world, with a particular focus on Latin America and the Atlantic
World. The department recently updated its computer lab for GIS,
geovisualization and remote sensing and also maintains a checkout
facility for physical geography field equipment.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: The major in geography requires 38-43 credit hours
of lower and upper division coursework. Introduction to Physical
Geography, Human Geography, and Introduction to Maps and
Geospatial Information are required of all majors. Undergraduates can
also choose from three minors: Geography; Geographic Information
Science; Law, Environment, and Geography.

Graduate: The University operates on the semester system. Both
thesis and non-thesis plans are offered. Seminars on History &
Methods in Geography and Approaches to Geographic Research are
required. Candidates who select the thesis plan must complete
additional graduate-credit courses and six thesis hours for a total of 30

credits, while non-thesis candidates must complete additional courses and a Master's Project for a total of 33 credits. Candidates under the thesis plan will be examined orally on their theses. Candidates under the non-thesis plan will be tested with both oral and written examinations. Admission to the graduate program requires the applicant to make formal application to the Office of Graduate Studies, submitting a letter of intent, resume, GRE scores, and three letters of academic recommendation. The letter of intent is typically 2-3 pages in length, explaining the applicant's background, interest in the program, research areas in which the applicant would like to work, and professional or career plans. Applications are due February 1, and decisions are made by March 15, along with funding offers. The department has 6 TA positions, and additional financial aid is typically available through faculty research grants.

FACULTY:

Ronda L Brulotte, Ph.D., University of Texas, Austin, 2006, Associate Professor — tourism geography, critical heritage studies, indigeneity, Latin America
John N Carr, Ph.D., University of Washington, 2007; J.D., University of Texas, 1993, Associate Professor — urban geography, legal geography, theories of globalization
Chris S. Duvall, Ph.D., University of Wisconsin Madison, 2006, Associate Professor — human-environment geography, biogeography, cultural ecology
Scott M. Freundschuh, Ph.D., State University of New York at Buffalo, 1992, Professor — spatial cognition, cartography and geovisualization, geographic information systems and science
Constantine Hadjilambros, Ph.D., University of Delaware, 1993, Associate Professor — environmental policy, energy resources, natural resource policy, environmental studies
K. Maria D. Lane, Ph.D., University of Texas, 2006, Associate Professor — environmental knowledge, historical geography, Southwest U.S., geography of science
Yan Lin, Ph.D., Texas State University, 2014, Assistant Professor — Geographic Information Science and public health
Caitlin L. Lippitt, Ph.D., UC Santa Barbara and San Diego State University, 2013, Assistant Professor — biogeography, remote sensing of vegetation, fire ecology
Christopher D. Lippitt, Ph.D., UC Santa Barbara and San Diego State University, 2012, Assistant Professor — remote sensing, geographic information science, time-sensitive geographic information
Tema Milstein, Ph.D., University of Washington, 2007 — environmental communication, human-environment geography, nature tourism
Lindsay A. Smith, Ph.D., Harvard University, 2008, Assistant Professor — medical geography, migration studies, feminist geography, Latin America
Benjamin Warner, Ph.D., Arizona State University, 2014 — water governance, development geography, Latin America, political economy

EMERITUS FACULTY:

Elinore M. Barrett, Ph.D., University of California Berkeley, 1970, Professor Emeritus — cultural-historical, Latin America
Olen Paul Matthews, Ph.D., University of Washington, 1980; J.D., University of Idaho College of Law, 1975, Professor — environmental management, public lands, water resources, water law
Stanley A. Morain, Ph.D., University of Kansas, 1970, Professor Emeritus — biogeography, remote sensing
Jerry L. Williams, Ph.D., University of Oregon, 1977, Associate Professor Emeritus — urban, land use planning, Southwest

ADJUNCT FACULTY:

Daniel Arreola, Ph.D., University of California, Los Angeles, 1980 — cultural geography, US-Mexico borderlands

Karl Benedict, Ph.D., University of New Mexico, 2004 — geospatial data infrastructure, applied GIS, geodatabases, data fusion, interoperability

Xi Gong, Ph.D., Texas State University, 2016 — Geographic Information Science, big data, environmental health

Cody Wiley, M.S. University of New Mexico, 2007 — biogeography, human-environment geography

Su Zhang, Ph.D., University of New Mexico, 2017 — Geographical information science, Remote Sensing, Infrastructure Management

NEW YORK

BINGHAMTON UNIVERSITY, STATE UNIVERSITY OF NEW YORK

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1945

GRADUATE PROGRAM FOUNDED: 1966

DEGREES OFFERED: B.A., M.A.

GRANTED 9/1/17 - 8/31/18: 34 Bachelors, 18 Masters

STUDENTS IN RESIDENCE: 115 Majors, 40 Masters

CHAIR: Eugene Tettey-Fio

GRADUATE DIRECTOR: Qiusheng Wu

UNDERGRADUATE DIRECTORS: Wan Yu, Jay Newberry

PROGRAM COORDINATOR: Brendan McGovern

DEPARTMENT SECRETARY: Rita Carr

FOR FURTHER INFORMATION WRITE TO: Graduate Admissions, Binghamton University, P.O. Box 6000 Binghamton, New York 13902-6000. Telephone (607) 777-2151. Internet: www.binghamton.edu/grad-school. Geography Department (607) 777-2755. Fax (607) 777-6456. Internet: www.geography.binghamton.edu. for placements and other information. Graduate Program Director: Dr. Qiusheng Wu wqs@binghamton.edu. Mailing address: Dr. Qiusheng Wu, Department of Geography, P.O. Box 6000, Binghamton, NY 13902-6000

PROGRAMS AND RESEARCH FACILITIES: The M.A. degree in Geography may be earned by following one of five tracks (a non-thesis option is available in all tracks):

- **Track 1: General Geography.** This program provides disciplinary foundation along classical liberal arts lines that can lead to interdisciplinary work in areas such as racial/ethnic geographies, conservation, economic development, and international studies.
- **Track 2: Cartography and Geographical Information Systems.** This program educates students as geographical spatial analysts, with emphasis on cartography, remote sensing, and geographic information systems. Among the essential components of the program are theory, research methods, and advanced statistics. The objective of this track is career preparation in the specified area. To fulfill this goal, practical experience obtained from internships and field research is integrated into the formal curriculum. This track also provides the option of pursuing the Ph.D. degree at many institutions.

- **Track 3: Environmental and Resource Management.** This program educates students in physical environmental systems, with particular emphasis on the integration of the environmental and institutional aspects of planning. Among the essential components of this concentration are geographic techniques, environmental concerns, community involvement, and practical experience through internship programs. As with Track 2, graduates from this program might work for planning agencies or consulting firm, as well as pursue an advanced degree.
- **Track 4: Urban Planning and Applied Geography.** This program encompasses urban analysis and planning, as well as retail geography, site selection and market analysis, with emphasis on the integration of the institutional, environmental and urban-economic aspects of both public and private planning. Essential components of the program are geographic techniques, urban development, retail geography, community involvement, GIS applications, seminars in urban planning, and practical experience through internship programs. As with Track 2, graduates from this program might work for corporations or agencies, or pursue an advanced degree.
- **Track 5: MA in Urban-Environmental Sustainability.** This program emphasizes the importance of the socio-political-cultural environments of various groups. Theories of sustainability science and applications are stressed.

A list recent students' placement (employment, PhD Programs) is available on our website www.geography.binghamton.edu. Departmental facilities include Geographic Information System (GIS), remote sensing/air photo, physical geography, and student/faculty research laboratories. The laboratories consist of 80 networked microcomputers and 12 GPS receivers, scanners, and plotters are also available. The Department also has a map library, classrooms, and research library within our custom renovated, state-of-the-art building. The Department founded, and provides national leadership in, two conferences, *Race/Ethnicity and Place*, and *The Applied Geography Conference*.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: For information on admissions and financial aid, contact the Office of Admissions, PO Box 6000, Binghamton, NY 13902 (607-777-2171).

A number of options are available to students that major in geography. A "general" major is provided within a liberal arts context. Also, more specialized majors and minors are available in the areas of computer applications in human-environmental analysis, environmental and resource management, urban/regional planning, urban economic/retailing, and American urban perspectives. Six courses are required for a minor. Ten courses are required for the major.

FIVE YEAR BA/MASTER'S PROGRAM: The program is designed for exceptional Binghamton University students who wish to complete both the BA and MA degrees in five years. Students in the program receive a BA at the end of the 4th year and an MA at the end of the program (year 5). The requirements for completion of the combined BA/MA degree are identical to those for completion of two separate degrees, however, because 16 credits of coursework taken for the master's degree (500 level courses) are taken while studying for the undergraduate degree, students are able to complete the course requirements for the BA in four years and the additional course requirements for the MA degree in one additional year.

Graduate: Admission requirement: Bachelor's degree, or its equivalent, and a reasonable background in geography. The department may require up to five courses of undergraduate work without credit to make up undergraduate deficiencies. Graduate assistantships are offered. Teaching and research assistantships are

available to qualified candidates. Scholarships to cover tuition are also awarded. Apply on-line at: www.binghamton.edu/grad-school/.

FACULTY:

Mark A. Blumler, Ph.D., UC Berkeley, 1992, Associate Professor, Director of Graduate Studies — Biogeography, Conservation, Early Agriculture, Environmental History
 Chengbin Deng, Ph.D., University of Wisconsin-Milwaukee, 2013, Assistant Professor — Remote Sensing, GIS, Cartography
 John W. Frazier, Ph.D., Kent State, 1976, Professor and SUNY Distinguished Professor (also, Director of GIS Core Facility) — Urban and Racial/Ethnic Geographies, Applied geography, Applications of Geographic Information Systems
 Milton Harvey, Ph.D., University of Durham, England, 1966, Research Professor — Regional Analysis, Behavioral Geography, Methodology
 Louisa Holmes, Ph.D., University of Southern California, 2013 Assistant Professor — Medical Geography, Health Research
 Norah F. Henry, Ph.D., Kent State, 1976, Associate Professor — Medical, Social Geography
 Shin-Yi Hsu, Ph.D., UCLA, 1967, Professor Emeritus — Cartography, Remote Sensing and GIS, East Asia
 Burrell E. Montz, Ph.D., University of Colorado, 1980, Professor Emerita — natural hazards, resource management/planning
 Jay Newberry, Ph.D., Michigan State University, 2011, Assistant Professor — Urban, Race and Ethnicity, Immigration
 Mark E. Reisinger, Ph.D., Indiana University, 2001, Associate Professor and Undergraduate Director — Economic, Urban Planning, Population and Globalization
 Aondover Tarhule, Ph. D, 1997, McMaster University, Canada — International research on climate and hydrology interactions, especially related to drought impacts in Africa
 Eugene Tetley-Fio, Ph.D., Kent State, 1996, Associate Professor and Chair — GIS, retail geography, urban and racial/ethnic geographies
 Nicolay P Timofeeff, Ph.D., Columbia University, 1967, Associate Professor Emeritus — Physical Geography, Quantitative Geography, Computer graphics
 Qiusheng Wu, Ph.D., University of Cincinnati, 2015, Assistant Professor — Geotechnologies, Physical Environment
 Wan Yu, Ph. D., Arizona State University, 2015, Assistant Professor — Asian Migration, Qualitative Methods

ASSOCIATES:

Kevin Heard, MA Binghamton, 2002, Associate Director of GIS Core Facility — GIS
 Brendan McGovern, MA Binghamton, Program Coordinator — Human Geography, Cultural Geography, Geographic Information Systems
 Lucius S. Willis, MA Binghamton, 1982, Professional Staff — Computer Cartography, Geographic Information Systems

PART-TIME FACULTY:

Frank Evangelisti, BA, SUNY- Buffalo, Environmental Design, APA, Chief Planner Broome County, New York, Adjunct Lecturer — Urban and Regional Planning
 Erin Heard, MA Binghamton, 2003, Adjunct Lecturer — Physical Geography
 Bruce Oldfield, MA Binghamton 1988, Adjunct Lecturer — Weather and Climate
 Mary Beth Willis, MA, Binghamton, 1983, Adjunct Lecturer — Cultural Geography
 Jennifer Yonkoski, MA, Binghamton, 2003, Senior Transportation Planner, Binghamton Metropolitan Transportation Study, Adjunct Lecturer — Urban Planning
 Sara Zubalsky-Peer, MA Binghamton, 2013, Adjunct Lecturer — Urban Planning

COLGATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DEGREES OFFERED: B.A.

CHAIR: Peter Scull

DEPARTMENT ADMINISTRATIVE ASSISTANT: Tracy Piatti

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Peter Scull, Department of Geography, Colgate University, 13 Oak Drive, Hamilton, NY 13346. Telephone (315) 228-7534. E-mail pscul@colgate.edu

PROGRAMS AND RESEARCH FACILITIES: The discipline of geography bridges perspectives in the social and natural sciences. In addition to deepening knowledge of biophysical and social change processes in their own right, diverse methodological approaches uncover the relationships between humans and natural and social environments. Students are exposed to the full spectrum of disciplinary subfields, methods, and geographical techniques. They use integrative explanatory frameworks to grapple with critical areas of inquiry: the geopolitics of conflict, climate science, bio-geographies of endangered species, public health, urban planning, international development, environmental and social justice, and natural resource management among them. In exploring these themes, geography students move beyond passive knowledge consumption and towards the production of knowledge themselves, applying their skills and perspectives through collaborative work with faculty, fellow students, and members of the wider community.

The department offers two majors, one in Geography and the second in Environmental Geography. The Environmental Geography major is jointly administered by the Geography Department and Colgate's Environmental Studies Program and requires students to take a core set of environmental studies courses in addition to Geography courses focused on environmental processes and impacts.

FACULTY:

Teo Ballvé, B.A., Colorado College, M.A., The New School University, Ph.D., University of California Berkeley, Assistant Professor of Geography and Peace & Conflict Studies
Adam W. Burnett, B.S., Aquinas College, M.A., Ohio University, Ph.D., Michigan State University, William R. Kenan Jr. Professor of Geography, Director of the Division of Social Sciences
Jessica K. Graybill, B.S., B.A., University of Arizona, M.S., Yale University, Ph.D., University of Washington, Seattle, Associate Professor of Geography and Russian & Eurasian Studies, Director of the Russian & Eurasian Studies Program
Maureen Hays-Mitchell, B.A., Middlebury College, M.A., Columbia University, Ph.D., Syracuse University, Professor of Geography
Peter J. Klepeis, B.A., Colgate University, M.A., Ph.D., Clark University, Professor of Geography
Ellen Percy Kraly, B.A., Bucknell University, M.S., Johns Hopkins University, Ph.D., Fordham University, William R. Kenan Jr. Professor of Geography and Environmental Studies
Michael M. Loranty, B.S., West Virginia Wesleyan College, Ph.D., SUNY Buffalo, Associate Professor of Geography
William B. Meyer, B.A., Williams College, Ph.D., Clark University, Associate Professor of Geography
Daniel B. Monk, B.A., M.A., Columbia University, Ph.D., Princeton University, George R. and Myra T. Cooley Professor of Peace and Conflict Studies and Professor of Geography
Peter R. Scull, B.A., University of New Hampshire, M.A., Michigan State University, Ph.D., San Diego State University, Professor of Geography, Chair of the Department of Geography

Daisaku Yamamoto, B.A., University of Colorado, Boulder, M.A., Simon Fraser University, Ph.D., University of Minnesota, Associate Professor of Geography and Asian Studies, Director of the Asian Studies Program

GRADUATE CENTER OF THE CITY UNIVERSITY OF NEW YORK

GEOGRAPHY PROGRAM IN EARTH AND ENVIRONMENTAL SCIENCES

DATE FOUNDED: 2003

GRADUATE PROGRAM FOUNDED: 2003

DEGREES OFFERED: Ph.D.

GRANTED 2016-2017: 8 Ph.D.

STUDENTS IN RESIDENCE: 50 Ph.D.

EXECUTIVE OFFICER (CHAIR): Cindi Katz

PROGRAM ADMINISTRATOR: Judy Li

FOR FURTHER INFORMATION CONTACT: The Executive Officer, Earth and Environmental Sciences Program, The Graduate Center, City University of New York, 365 Fifth Avenue, New York, NY. 10016; Telephone 212-817-8240. Students interested in the program should consult the website: <http://www.gc.cuny.edu/Page-Elements/Academics-Research-Centers-Initiatives/Doctoral-Programs/Earth-and-Environmental-Sciences>

PROGRAMS AND RESEARCH FACILITIES: The Geography Program at the Graduate Center of the City University of New York is an exciting specialization within the Doctoral Program in Earth and Environmental Sciences, which was founded in 1985. The program provides an opportunity to pursue doctoral studies in geography in one of the world's largest and most dynamic metropolitan locations with a diverse interdisciplinary faculty based either full-time at the Graduate Center or holding joint appointments with the undergraduate and master's programs offered throughout the CUNY system, including Baruch, Brooklyn, City, Hunter, John Jay, Lehman, and Queens Colleges, the College of Staten Island, and the Murphy Institute for Worker Education and Labor Studies. Geography faculty and students participate in a variety of interdisciplinary fields of study including American Studies, Women's and Gender Studies, Urban Studies, Urban Design and Planning, Environmental Psychology, and Public Health. Students are permitted to combine courses from the Geography Specialization with those in the Geosciences more generally. They are also encouraged to take courses in related disciplines – particularly those such as Anthropology, Environmental Psychology, Sociology, and Urban Studies – which house faculty affiliated with Geography at the Graduate Center. Our faculty and students are closely connected to various centers and institutes at the Graduate Center, including the Center for Place, Culture, Politics; the Center for Human Environments; the Center for the Humanities; the Academic Research Collaborative; the Institute for Research on the African Diaspora in the Americas and Caribbean; the Center for Research on Women and Society; and the Committee on Globalization and Social Change; as well as CUNY-wide initiatives such as the Science and Resilience Institute at Jamaica Bay, and the CUNY Institute for Sustainable Cities, among others.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system.

Admission requirements: Interests in the field coincident with those of the Program faculty. Application requires transcripts, two letters of recommendation, personal statement detailing research interests, and GRE results. Potential applicants are welcome to contact Executive Officer, Professor Cindi Katz (212-817-8240 or ckatz@gc.cuny.edu);

Chair of Admissions Committee, Professor Monica Varsanyi (212-237-8232 or mvarsanyi@gc.cuny.edu). Application deadline: December 15th.

Financial Aid: All admitted students will receive financial aid ranging from 5-year Tuition Awards to 5-year Graduate Center Fellowships, which provide students with tuition and \$26,128 each year for the first five years of study. The fellowship consists of a \$24,128 stipend in the Fall and Spring semesters, a \$2,000 summer research stipend, a graduate assistantship, a tuition award, and eligibility for low-cost individual or family NYSHIP health insurance. A variety of teaching and research fellowships are also available. Additional support is available through a number of competitive grants and fellowships for travel, research, and dissertation support. For more information please see: <http://www.gc.cuny.edu/Prospective-Current-Students/Current-Students/Financial-Assistance/Fellowships-and-Grants#sthash.mT7lIPqx.dpuf>.

FACULTY:

Terence Agbeyegbe, Professor; Ph.D., University of Essex, UK — Energy and environmental economics; Hunter College, 212 772 5405; tagbeyeg@hunter.cuny.edu

Sean C. Ahearn, Professor; Ph.D., University of Wisconsin, Madison — Remote sensing, environmental assessment; Hunter College, 212 772 5327; sahearn@hunter.cuny.edu

Jochen Albrecht, Professor; Ph.D., University of Vechta, Germany — Geographic Information Science; Hunter College, 212 772 5221; jochen@hunter.cuny.edu

Thomas Angotti, Emeritus Professor; Ph.D., Rutgers University — Urban planning and community development, environmental justice; Hunter College, 212 650 3130, tangotti@hunter.cuny.edu

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Rebecca Boger, Associate Professor; College of William and Mary VIMS — GIS, Water Resources, Science Education; Brooklyn College, 718 951 5000 x 2159; rboger@brooklyn.cuny.edu

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Allan Frei, Professor; Ph.D., Rutgers University — Climatology and global climate change; Hunter College, 212 772 5322; afrei@hunter.cuny.edu

Vinay Gidwani, Adjunct Professor; Ph.D., University of California, Berkeley — Post-socialism and justice; labor geographies; Marxism; identity politics and subaltern social movements; geographies of work; agroecological transformations; social theory; India; Department of Geography, University of Minnesota, 612 625 1397; vgidwani@geog.umn.edu

Ruth Wilson Gilmore, Professor; Ph.D., Rutgers University — Race and gender, labor and social movements, prison, uneven development, politics and culture, California, the U.S., the African Diaspora; Graduate Center, 212 817 8251; rgilmore@gc.cuny.edu

Hongmian Gong, Professor; Ph.D., University of Georgia — Urban geography, Geographic Information Systems; Hunter College, 212 772 4658; gong@hunter.cuny.edu

Yuri Gorokhovich, Associate Professor; Ph.D. City University of New York Graduate Center — Geology, natural hazards and disasters, spatial modeling with GIS, geoarchaeology; Lehman College, 718 960 1981; yuri.gorokhovich@lehman.cuny.edu

Kenneth Gould, Professor; Ph.D., Northwestern University — Environmental sociology, ecotourism and development, ecodisasters; Brooklyn College, 718 951 5000 x1765; kgould@brooklyn.cuny.edu

Jean Grassman, Associate Professor; Ph.D., University of California, Berkeley — Occupational and environmental health; Brooklyn College, 718 951 5000 x2752; grassman@brooklyn.cuny.edu

Marta Gutman, Professor; Ph.D., University of California, Berkeley — Architectural and historical history; Spitzer School of Architecture, City College, 212 650 8749; mgutman@ccny.cuny.edu

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David Harvey, Distinguished Professor; Ph.D., St. Johns College, Cambridge, England — Geography and social theory, urban political economy and urbanization; Graduate Center, 212 817 7211; dharvey@gc.cuny.edu

Mohamed Ibrahim, Associate Professor; Ph.D., University of Alberta, Canada — Drought management and North African ecosystems; Hunter College, 212 772 5267; mibrahim@hunter.cuny.edu

Peter Kabachnik, Associate Professor; Ph.D., UCLA — Geographies of displacement; conceptualizations of place, space and mobility; racialization, social exclusion of Gypsies and Travelers; critical geopolitics; Abkhazian identity construction; College of Staten Island, 718 982 2916; Peter.Kabachnik@csi.cuny.edu

Cary Karacas, Associate Professor; Ph.D., University of California, Berkeley — Cultural Geography, East Asian urbanization, modern Japan, memory, catastrophic loss and landscape; College of Staten Island, 718 982 2890, Cary.Karacas@csi.cuny.edu

Cindi Katz, Executive Officer and Professor; Ph.D. Clark University — Production and reproduction of space, place and nature, critical social theory, qualitative methodology and the politics of research, social reproduction and everyday life, children and the environment, political ecology; Graduate Center, 212 817 8728; ckatz@gc.cuny.edu

Carsten Kessler, Adjunct Assistant Professor; Ph.D., University of Munster, Germany — Link data and semantic web, volunteered geographic information, emergency management, geospatial semantics; Aalborg University Copenhagen, Kessler@plan.aau.dk

Yehuda L. Klein, Professor; Ph.D., University of California, Berkeley — Environmental economics and policy, environmental justice, urban sustainability; Brooklyn College, 718 951 5153; yklein@gc.cuny.edu

Tammy L. Lewis, Professor; Ph.D., University of California, Davis — Sustainability; transnational social movements; globalization; service learning; Brooklyn College, 718 951 5000 x 1786, tlewis@brooklyn.cuny.edu

Setha M. Low, Professor; Ph.D., University of California, Berkeley — Anthropology of space and place; cultural aspects of design; housing and community development, gated communities and 'landscapes of fear'; ecology and nature; urban anthropology; qualitative methods; historic/cultural preservation; CUNY Graduate Center, 212 817 8725, slow@gc.cuny.edu

Juliana Maantay, Professor; Ph.D., Rutgers University — Environmental geography, Geographic Information Science; environmental health justice; Lehman College, 718 960 8574, juliana.maantay@lehman.cuny.edu

Elia Machado, Assistant Professor; Ph.D., Clark University — GIS and spatial analysis, global environmental change and vulnerability assessment, remote sensing; Lehman College, 718 960 1130, elia.machado@lehman.cuny.edu

Peter J. Marcotullio, Professor; Ph.D., Columbia University — urbanization and global change, urban environmental planning, urban Asia Pacific, urban transitions; Hunter College, 212 772 5264, peter.marcotullio@hunter.cuny.edu

Andrew Maroko, Assistant Professor; Ph.D., CUNY Graduate Center — GIS and geo-spatial statistics with applications to environmental health and environmental justice; integration of GIS, remote sensing, spatial analysis and modeling; impacts of exposure, built- and social-environments on public health; Lehman College, 718 960 7452, Andrew.Maroko@lehman.cuny.edu

Michael Menser, Assistant Professor, Ph.D., CUNY Graduate Center — Environmental philosophy, democratic theory, global ethics, social philosophy, participatory democracy and ecological sustainability/resilience; Brooklyn College, 718 951 5570, mmenser@brooklyn.cuny.edu

Ines A. Miyares, Professor; Ph.D., Arizona State University — Population, social geography; Hunter College, 212 772 5265/5443; imiyares@hunter.cuny.edu

Wenge Ni-Meister, Professor; Ph.D., Boston University — Remote sensing, biogeography; Hunter College, 212 772 5321; Wenge.Ni-Meister@hunter.cuny.edu

Rupal Oza, Associate Professor; Ph.D., Rutgers University — Feminist geographical theory, globalization and gender, gender and nationalism, globalization and labor migration, religious nationalism, regional specialization: South Asia and United States; Hunter College, 212 650 3035; rupal.oza@hunter.cuny.edu

Marianna E. Pavlovskaya, Professor; Ph.D., Clark University — Urban, gender, Russia; Hunter College, 212 772 5320; mpavlov@hunter.cuny.edu

Jonathan R. Peters, Professor; Ph.D., CUNY Graduate Center — Regional planning; road and mass transit financing; corporate and public sector performance metrics; capital costs and performance management; College of Staten Island, 718 982 2958; jonathan.peters@csi.cuny.edu

Deborah Popper, Emeritus Professor; Ph.D., Rutgers University — Rural studies, regional geography of the American West, The Buffalo Commons; College of Staten Island, 718 982 2907, popper@mail.csi.cuny.edu

Patricia L. Price, Professor and Associate Provost; Ph.D. University of Washington — Critical geographies of race, ethnicity, and immigration, Urban Geography, Cultural Geography, exile landscapes, borderlands, place and affect, narrative geographies; Baruch College, 646 660 6514, patricia.price@baruch.cuny.edu

Laxmi Ramasubramanian, Associate Professor; Ph.D. University of Wisconsin, Milwaukee — Urban planning, participatory GIS, built environmental-human behavior interactions; Hunter College, 212 772-5594; laxmi@hunter.cuny.edu

Brian Rosa, Assistant Professor; University of Manchester — Built environment, post-industrial cities, infrastructures, aesthetics and spatial politics; Queens College, 718 997 5149, brosa@qc.cuny.edu

Susan Saegert, Professor; Ph.D., University of Michigan — Housing, community development, gender and environment, social capital; Graduate Center, 212 817 1886, ssaegert@gc.cuny.edu

John E. Seley, Professor; Ph.D., University of Pennsylvania — GIS, urban planning; public policy, Queens College, 718 997 5141; johnseley@gmail.com

William D. Solecki, Professor; Ph.D., Rutgers University — Environmental hazards, land use, urban sustainability; Hunter College, 212 772 5268; wsolecki@hunter.cuny.edu

Filip Stabrowski, Assistant Professor; Ph.D., University of California, Berkeley — Housing, Property, Gentrification, Digital Geography, New York City, Laguardia Community College, 718 349 4002; fstabrowski@lagcc.cuny.edu

Monica W. Varsanyi, Professor, Ph.D., University of California, Los Angeles — Migration and immigration studies, political geography and urban geography; John Jay College, 212 237 8232; mvarsanyi@gc.cuny.edu

Sharon Zukin, Professor; Ph.D., Columbia University — Consumer society and consumer culture, urban change and gentrification, arts and economic development, ethnic diversity; Brooklyn College, 718 951 4639; zukin@brooklyn.cuny.edu

HOFSTRA UNIVERSITY

DEPARTMENT OF GLOBAL STUDIES AND GEOGRAPHY

DATE FOUNDED: 1935 (Geography), 2008 (Global Studies)

DEGREES OFFERED: B.A., B.S.

GRANTED 9/1/17-8/31/18: 28 Bachelors

MAJORS: 97

CHAIR: Dr. Grant Saff

DEPARTMENT ADMINISTRATIVE ASST: Jackie Geis

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Grant Saff, Chairperson, Department of Global Studies and Geography, 130 Hofstra University, Hempstead, New York 11549-1300. Telephone (516) 463-5826. Fax (516) 463-6968. E-mail: gsgeog@Hofstra.edu. Web: <http://www.hofstra.edu/geography>

PROGRAMS AND RESEARCH FACILITIES: The department is situated within the Peter S. Kalikow School of Government, Public Policy and International Affairs which is part of Hofstra's College of Liberal Arts and Sciences. and The department offers three undergraduate major programs: Geography, Geographic Information Systems, and Global Studies. Geography majors pursuing the BA, need to declare a specialty in general geography or in GIS. We also offer a BS in GIS which is primarily intended for students that would like to combine GIS with a second major or minor in the natural sciences. The BS major, requires courses advanced courses in GIS remote sensing, statistics, computer science, and math. Students can also pursue a joint minor in Computer Science and GIS or a minor in Global Studies. The department offers a wide selection of geography courses, balancing offerings in thematic and regional geography. Particular strengths are GIS, cultural, economic, urban, transportation and South Asia. Many BA students in the department choose to double major in Geography and Global Studies. The department encourages internships and participation in study abroad programs. We offer a popular semester length study abroad program in Europe, "the European Odyssey" that allows majors or minors to receive up to 15 sh of Global Studies and Geography credits while visiting ten or more European countries. The department annually awards the Inaba Memorial Scholarship, of approximately \$8,000, to a declared major in their junior or senior year. Selection considers both academic merit and financial need. This scholarship is in addition to other awards or financial aid that the student receives. The Department has an active chapter of GTU and a thriving student club, "Get Global." A fuller description of our activities, offerings and student outcomes can be found on our department webpage: <http://www.hofstra.edu/geography>.

We provide extensive Geographic Information Systems facilities and ArcView software is available for use by students and faculty on the Hofstra network and in our Department lab. The University Computing Center provides computing services to all students and faculty and the entire campus is Wi-Fi accessible.

Hofstra University, located in Hempstead (Long Island), 25 miles east of Manhattan, is very well placed to take advantage of the wealth of research and educational opportunities provided by the New York metropolitan area. Abundant internship opportunities for majors and minors are available in the New York metropolitan area. The Department is located in Roosevelt Hall near the center of the 240-acre campus.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Requirements for admission are stated in the Hofstra Catalog. We offer a BA in Geography, BA in Geography with a specialization in GIS, BS, GIS, and a BA in Global Studies. A B.A. in Geography entails a minimum of 30 semester hours in geography courses or related courses. 12 of the s.h. in geography courses must come from 100-level courses. Required courses: GEOG 1 (World Regional Geography), GEOG 2 (Human Geography), GEOG 60 (Introduction to GIS) and GEOG 191 (Seminar in Geographic Methodology). We allow up to 9 sh of selected global studies, geology, sustainability and urban ecology courses to count toward the 30 s.h. required for the major in geography. The BS major requires 30 s.h. of courses, including 12 s.h. of required GIS classes, 6 s.h. of applications or methodology classes, 6 s.h. of selected courses in math or statistics, 3 s.h. of selected courses in natural science credits and a minimum of 3 s.h. of electives in computer science, geography, geology, information technology or engineering. A minor in Geography consists of the successful completion of 18 semester hours of geography classes.

The B.A. Specialization in Global Studies requires a minimum of 33 semester hours in Global Studies. The detailed requirements and courses are listed on our website. All of our programs offer ample opportunities for internships, directed studies and participation in Hofstra's extensive study abroad programs. Our Department also offers a Pre-Med B.A. in both Geography and Global Studies.

It is the goal of Hofstra University – a selective, midsized, private, coed institution – to enroll a freshman and transfer class of students from diverse backgrounds and locations, with varied interests and talents. The average financial aid package for incoming freshmen is \$31,032. Approximately 95.0% of incoming students receive some form of financial assistance, the majority of which is in the form of scholarships and grants. Admissions requirements, the university catalog, financial aid and program information can be obtained by calling (516) 463-6600 or visiting www.hofstra.edu.

FULL-TIME GLOBAL STUDIES AND GEOGRAPHY FACULTY:

Craig Dalton, Ph.D., University of North Carolina, Chapel Hill, 2012, Assistant Professor — GIS, maps and social movements, cultural geography
Zilkia Janer, Ph.D., Duke, 1998, Professor, Global Studies Program — culture, food culture, Latin America
Kari B. Jensen, Ph.D., Pennsylvania State University, 2007, Associate Professor — South Asia, political geography and cultural geography
Linda Longmire, Ph.D., CUNY, 1988, Professor, Global Studies Program — human rights, child labor, Europe
Jean-Paul Rodrigue, Ph.D., University of Montreal, 1994, Professor — logistics and transport geography, GIS, East and Southeast Asia
Grant Saff, Ph.D., Rutgers University, 1996, Professor — Urban geography, economic geography, urban planning, geographic education, globalization, Southern Africa

PART-TIME GEOGRAPHY FACULTY:

Nisha Korattyswaroopam, Ph.D., Rutgers University, 2010, Adjunct Assistant Professor — transport geography, urban geography, South Asia
Veronica Lippencott, Ph.D., Univ Illinois Urbana-Champaign, 2003, Adjunct Associate Professor — Africa, health, economic geography
Ying Qui, Ph.D., Birmingham (UK), 2004, Adjunct Assistant Professor — South Asia, economic geography, environment
Valarie Rizzuto, MA, Hunter College, 2013, Adjunct Instructor — Remote Sensing, regional geography
Timothy Smith, EDD., Rutgers University, 1968, Adjunct Professor — Europe

HUNTER COLLEGE - CITY UNIVERSITY OF NEW YORK (CUNY)

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1921

GRADUATE PROGRAM FOUNDED: 1985

DEGREES OFFERED: BA Geography, BA Environmental Studies, MA Geography, MS GeoInformatics, BA/MA-TEP Environmental Studies-Earth Science Education, MA-TEP Earth Science Education

CERTIFICATE OFFERED: Geographic Information Science (post-Baccalaureate)

GRANTED 9/1/16-8/31/17: 38 Bachelors; 4 Masters; 12 Certificates

STUDENTS IN RESIDENCE: 141 Majors, 40 Masters, 24 Certificates

CHAIR: Allen Frei

ASSISTANT TO CHAIR: Dana G. Reimer

FOR FURTHER INFORMATION WRITE TO: Department of Geography, Hunter College-CUNY, 695 Park Avenue, HN 1006, New York, NY 10065. Telephone (212) 772-5265. Fax (212) 772-5268. E-mail: geog@hunter.cuny.edu. Internet: www.geo.hunter.cuny.edu. A copy of the current graduate catalog can be found at <http://registrar.hunter.cuny.edu/subpages/collegecatalog.shtml>.

PROGRAMS AND RESEARCH FACILITIES: The Hunter College Geography Program within the City University of New York (CUNY) is the largest and one of the most technologically advanced geography programs in the New York City metropolitan region. Concentrations are available in urban geography; population/immigration/ethnicity; geographic information science; sustainability; earth systems science; environmental policy; and geographic and environmental education. Through integration of content knowledge, applied skills, and internships, our graduates find employment in both the public, private, and non-profit sectors.

At the undergraduate level, students may major in four tracks in geography (Urban and Social Geography, Physical and Environmental Geography, Geographic Information Science, and Sustainability Studies), environmental studies, or select options within the geography major that prepare them for temporary certification in New York State to teach social studies at grades K-12. The interdisciplinary major in environmental studies allows students to focus on environmental policy and management or earth system science. Students may also complete a five-year combined BA/MA program in Environmental Studies and Adolescent Education-Earth Science. This accelerated program is designed for highly qualified environmental studies majors who, by their sophomore year, decide to pursue a career in teaching earth science. In addition to comprehensive programs in residence, the department offers field courses in geography and environmental science.

The MA program in geography emphasizes geographic and social theory and analytical methodologies in human, physical, and environmental geography, ecology, as well as geographic information science. A limited number of research, teaching, and college assistantships are available. The MA degree can be completed through either a thesis or a non-thesis option. Full-time students may be able to complete the MA within three semesters, but the average time for degree completion is three years. Many courses are offered in the evening to accommodate part-time and working students. In cooperation with the School of Education, an M.A. Program for the Preparation of Teachers of Earth Science is offered. Upon completion

of the program the student is certified to teach earth science (grades 7-12) in NY State.

A new MS in GeoInformatics began in fall 2017. This science and technology-based degree program provides training for research and professional careers in local and national governments, international agencies, non-government organizations, corporations, consulting firms, and information technology companies as well as in academia. The unique focus on GeoInformatics that combines Geographic Information Science (GIScience) with Computational Science and Data Science provides world-class education for the next generation of leaders and thinkers in geospatial technologies. Training in computational aspects of GIS includes programming and modeling, remote sensing, geovisualization, databases, spatial ontologies, spatial statistics, big data, complexity as well as applied research topics such as human and animal mobility, transportation, crime and health, environmental modeling, urban environments, biogeography, disaster management, and community-based GIS. The MS degree can be completed through either the thesis or non-thesis option.

A 15-credit post-baccalaureate Certificate Program in Geographic Information Science was established in 2001 to meet the demand for people with expertise in GIS. While the GIS certificate program is independent from the MA in Geography and the MS in GeoInformatics, graduate students in Geography and GeoInformatics may complete the GIS certificate concurrently, with specific course credits used to satisfy the requirements of all three programs.

The department participates in the Earth and Environmental Sciences Ph.D. program at the CUNY Graduate Center that offers specializations in (1) Geography and (2) Environmental and Geological Sciences. Inquiries about the PhD program should be made to the Executive Officer at (212) 817-8240.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Students interested in any of the Geography degree programs at Hunter should check the department's website at www.geo.hunter.cuny.edu. Those wishing information regarding financial aid should review <http://www.hunter.cuny.edu/onestop/finances/financial->

Program catalogs can be viewed online at <http://registrar.hunter.cuny.edu/subpages/collegecatalog.shtml>.

Application deadlines for graduate programs are April 1 and November 1 annually. To be considered for financial aid, completed applications must be received before February 28. Web site: www.hunter.cuny.edu/finaid/graduate.html.

FACULTY:

Sean C. Ahearn, Ph.D., Wisconsin, 1986, Professor and Director, CARS Laboratory — GIS, remote sensing, digital image processing, natural resources, habitat studies
Jochen Albrecht, Ph.D., Vechta (Germany), 1995, Professor, GIS Certificate Adviser — geographic information science, GIS applications, change modeling, simulation, quantitative methods, Europe
Frank S. Buonaiuto, Jr., Ph.D., 2003, SUNY-Stony Brook, Associate Professor and Environmental Studies Adviser — oceanography, coastal processes, numerical modeling of waves, tides and sediment transport
Allan Frei, Ph.D., Rutgers, 1997, Professor and Chair, Deputy Director, CUNY Institute for Sustainable Cities, Graduate Adviser — climate change, snow and water resources, modeling
Hongmian Gong, Ph.D., Georgia, 1997, Professor — urban, GIS applications, and transportation
Mohamed Ibrahim, Ph.D., Alberta, 1985, Associate Professor — environmental studies, resource management, sustainable development, Africa, rural water supply and sanitation, urbanization in the developing world

Peter J. Marcotullio, Ph.D., Columbia, 1996, Professor and Director, CUNY Institute for Sustainable Cities, Graduate Adviser — urbanism and environmental change, energy, Asia-Pacific region
Ines M. Miyares, Ph.D., Arizona State, 1994, Professor — population, immigration, ethnicity, Latin America, Hawai'i
Wenge Ni-Meister, Ph.D., Boston University, 1997, Professor — remote sensing, land-atmosphere interaction, meteorology and climatology, biogeography
Mariana Pavlovskaya, Ph.D., Clark, 1998, Professor — urban and feminist geography, social theory, post-Soviet space, critical GIS, GIS applications, urban political ecology
Andrew Reinmann, PhD, Boston University, 2014, Assistant Professor — ecological response to climate change, urbanization and fragmentation, terrestrial carbon cycling, dendroecology
Randy Rutberg, Ph.D., Columbia, 2000, Assistant Professor — paleoclimatology, oceanography, geochemistry, environmental science, environmental public policy
Haydee Salmun, Ph.D., Johns Hopkins, 1989, Associate Professor and Environmental Studies Adviser — oceanography, global climate, environmental fluid dynamics, atmosphere-oceans interface
William Solecki, Ph.D., Rutgers, 1990, Professor — urban environmental change and management, land use and land cover studies, hazards, GIS applications
Shipeng Sun, Ph.D. Minnesota, 2009, Assistant Professor — geovisualization, GIS algorithms, socio-spatial network analysis, land use change, urban and human-environment system modeling

AFFILIATED AND LONG-TERM ADJUNCT FACULTY:

Anthony Grande, M.S.Ed., Catholic University of America, Adjunct Lecturer — general geography, geographic education, regional geography of NYS
Cindi Katz, Ph.D., Professor and Chief Executive Officer, Earth and Environmental Sciences Ph.D. Program, Environmental Psychology Ph.D. Program, CUNY Graduate Center
Faye Melas, Ph.D., CUNY, 1980, Adjunct Assistant Professor — carbonate sedimentology, geoscience education
Shruti Philips, Ph.D., CUNY, 1999, Adjunct Assistant Professor — sedimentary geology, carbonate diagenesis, marine geology
Henry Sirotni, M.A. Hunter College-CUNY, 2006, Adjunct Lecturer — Eurasia, Europe, East Asia, intelligence studies, geopolitics
Karl Szekielda, Ph.D., Marseille, 1967, Research Professor — remote sensing, oceanography, marine resources
Douglas A. Williamson, Ph.D., CUNY, 2003, Adjunct Associate Professor — GIS applications, spatial aspects of crime

For a complete list of current adjunct teaching faculty visit: www.geo.hunter.cuny.edu.

TECHNICAL AND SUPPORT STAFF:

Amy Jeu, M.G.I.S., Minnesota — College Laboratory Technician
Nguyen Ngoc Nguyen, B.S., CUNY — Windows Systems Administrator
Dana G. Reimer, M.A., Hunter College — Chief administrative officer and Assistant to Chair
Martha Taylee, Administrative Assistant
Thomas B. Walter, M.A., Miami (Ohio) — Research Associate, UNIX/LINUX Systems Administrator and Undergraduate Geography Adviser

LEHMAN COLLEGE, CITY UNIVERSITY OF NEW YORK (CUNY)

DEPARTMENT OF EARTH, ENVIRONMENTAL, AND GEOSPATIAL SCIENCES (EEGS)

DATE FOUNDED: 1931 (originally called the Department of Geology and Geography at Lehman College, which was then "Hunter College in the Bronx")

DEGREES OFFERED: B.A. Geography; B.A. Earth Science; B.S. Environmental Science; M.S. Geographic Information Science (MS-GISc); Bachelor's/Master's Accelerated Degree Program in GISc.

CERTIFICATES OFFERED: Certificate in GISc. (Undergrad); Advanced Certificate in GISc (Graduate Level); Certificate in Earth Science (for Educators)

DEGREES GRANTED 9/1/16 – 8/31/17: 6 B.A.; 8 B.S.; 12 MS-GISc; 3 Certificates

STUDENTS IN RESIDENCE: 58 Undergraduate Majors; 40 Graduate Students; 6 Certificate Students

CHAIR: Hari Pant (Chair); JulianaMaantay (Vice Chair, and Program Director for Geography/GISc Programs and Graduate Studies)

PROGRAM ADMINISTRATIVE ASSISTANT: Ms. Gail Markbreit

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Earth, Environmental, and Geospatial Sciences, Lehman College, CUNY, 250 Bedford Park Blvd. West, Bronx, NY 10468. Tel: 718 960-8660; Fax: 718 960-8584; E-mail: Juliana.maantay@lehman.cuny.edu; Web: <http://www.lehman.edu/academics/eggs/>. Current catalogues can be accessed at <http://lehman.smartcatalogiq.com/2015-2017/Undergraduate-Bulletin> (undergrad); and <http://www.lehman.edu/graduate-bulletin/> (graduate).

PROGRAMS AND RESEARCH FACILITIES: The Earth, Environmental, and Geospatial Sciences (EEGS) Department offers three majors, three certificate programs, and one master's degree program, as well as several minors. There is also the opportunity for students to enroll in an Accelerated Bachelor's/Master's degree. EEGS faculty have expertise and research interests in a wide variety of disciplines, including urban environmental geography; medical geography; demography; population health; geospatial analysis; natural hazards and risk assessment; water resources; Geographic Information Science (GISc); remote sensing; climate change; sustainability science; ecology; and conservation, and there are research opportunities within and outside the department for students to work in these areas. We have a vibrant internship program for both undergraduates and graduate students, and our location in New York City affords many opportunities for internships as well as full-time positions upon graduation. The Lehman GISc Program is a partner in the CUNY CREST Institute and a founding member of NOAA-CREST (National Oceanic and Atmospheric Administration's Cooperative Remote Sensing Science and Technology). NOAA-CREST faculty and students at Lehman are involved in research projects pertaining to the NOAA sciences, and are active in publishing and presenting their work.

B.A. - Major in Geography, with a concentration in GISc (28 credits). The requirements for the Geography major are designed to maximize flexibility based on the student's interests. There are only four required courses (GEH 101 Introduction to Geography; GEP 204 Basic Mapping Science; GEP 470 or GEH 490 Internship in Geography or Honors in Geography; and one regional geography

course). The remaining 15 credits are to be taken in Geography electives, to be selected in consultation with the Geography advisor, according to the student's career goals. Students can also major in Geography to achieve New York State Certification to teach Social Studies, grades K-12.

B.S. – Interdisciplinary Major in Environmental Science (46 credits). The core of the interdisciplinary undergraduate program in Environmental Science is a sequence of basic and advanced science courses from four participating science departments. Students select a specialization area in Ecology, Urban Environmental Management, Environmental Geology, or Environmental Analysis. The Environmental Science Program offers courses to prepare students (1) for environmental science careers, and to become active proponents for their communities in the scientific and policy processes surrounding environmental issues; (2) to meet the environmental science employment demands of local, state, and federal governmental agencies, private consulting, and industry; and (3) to pursue advanced degrees in environmental/physical sciences. The Environmental Science major includes concentrations in Geospatial Analysis and Environmental Modeling.

B.A. - Major in Earth Science (30-credits). This program is recommended for teacher education students, and consists of 26 credits in required courses, plus one four credit Earth Science elective.

M.S. - Geographic Information Science (MS-GISc) (40 credits). The MS-GISc at Lehman College is the first program of its kind within the CUNY system and in the New York City region. The program has two tracks: the Professional Experience and Applied Research (PEAR) option, which seeks to prepare students for careers in GISc and the spatial sciences; and the Traditional Master's Degree option, which is appropriate for students intending to continue on to doctoral studies or assume positions in research institutes. Students may concentrate in one of three areas: Environmental and Health Spatial Sciences; Geospatial Technology; or Urban Sustainability. All concentrations have a strong commitment to community and civic service, emphasizing full engagement with solving real-world problems, while promoting ethical uses of GISc technologies. Our objective is to create a learning environment that is socially conscious, environmentally aware, and focused on equity, while also developing and using the best, most innovative technical and methodological approaches. The curriculum of the MS-GISc program requires 40 credits of coursework, comprised of three key elements: 4 core courses (14 credits); 5-6 electives (18 credits); and an 8-credit capstone research experience, with options for either a traditional Master's Thesis, or a combination of an applied research project and professional experience through an internship, (PEAR option, which satisfies the requirements for a Professional Science Masters – PSM - degree). Most classes are offered in the evenings or online to accommodate graduate students who have daytime commitments, and over 20 different GISc courses are offered on a regular basis. Please see http://www.lehman.cuny.edu/academics/eggs/MS_GISc.php for further information on the MS-GISc degree. The MS-GISc Program has an External Advisory Board with representation of GISc professionals from the GISc industry, private sector consulting firms, not-for-profit organizations, academic research institutes, and local, state, and federal governmental agencies. The Board provides insights and guidance to the curriculum, the internship experience, career opportunities, and research directions.

Professional Science Master's Program. The MS-GISc Program at Lehman has been recognized as a Professional Science Master's (PSM) by the National PSM Association (NPSMA). The NPSMA describes PSM programs as follows: "The Professional Science Master's (PSM) is an innovative, new graduate degree designed to allow students to pursue advanced training in science or mathematics, while simultaneously developing workplace skills highly valued by employers," (from <http://www.sciencemasters.com/>). Completion of

the PEAR Option of the MS-GISc fulfills the requirements for the PSM, and students are awarded the PSM Certificate from the NPSMA upon completion of their MS-GISc degree.

Bachelor's/Master's Accelerated Degree Program: Students pursuing the B.S. in Environmental Science or a B.A. in Earth Science or Geography, who have completed at least one GISc course at the undergraduate level and received a B+ or better, with an overall GPA of 3.0, may be able to satisfy up to 12 open elective credits of their B.S./B.A. degree taking graduate-level coursework in the MS-GISc program. Students who choose to continue on in the Master's degree program upon graduation will be able to transfer the 12 credits of graduate coursework taken while an undergraduate into the M.S. program. This allows the student to potentially complete both the Bachelor's and the Master's degrees within five years of full-time study. By completing the Bachelor's requirements during the first four years, students are assured of the Bachelor's degree if, for any reason, they do not complete the fifth year for the Master's.

Certificate in Geographic Information Science (17 credits). The certificate is available at the undergraduate level, and consists of a 17-credit sequence of courses. The courses are credit-bearing, and students must be admitted to Lehman College as matriculated in either a degree program or in the GISc Certificate program in order to be awarded the Certificate. Courses are usually offered in the evenings, and some electives are offered on-line. Required courses for the undergraduate GISc Certificate are GEP 204, GEP 205, GEP 350, GEH 490, and one 3 or 4 credit GISc elective.

Advanced Certificate in GISc. (17-20 credits). The Advanced Certificate is available at the graduate level, and consists of a minimum of 17 credits. The courses are credit-bearing, and students must be admitted to Lehman College as matriculated in either a graduate degree program or in the GISc Certificate program in order to be awarded the Advanced Certificate. Required courses for the Advanced GISc Certificate are GEP 605, GEP 690, and three GISc elective courses (3-4 credits each). If students have no prior GISc coursework or experience, it is recommended to begin with GEP 505 (which is a pre-requisite for GEP 605). The Advanced Certificate in GISc is also available as an enroute diploma to CUNY Ph.D. students who complete the requirements for the certificate at Lehman.

Certificate in Earth Science (30 credits) is structured to provide a strong foundation in Earth Science content. The program is intended for certified teachers of other science areas who plan to obtain a second certification in Earth Science as well as holders B.A. or B.S. degrees who seek a foundation in Earth science before applying to a Masters of Education program.

The GISc laboratory facilities at Lehman College include a state-of-the-art teaching lab with 25 workstations, a 20-station mobile GISc lab for ancillary classroom use, and a separate research lab (the Urban GISc Lab), along with a full-time College Laboratory Technician to aid in maintenance of the facilities and to provide technical assistance to faculty and students. All computers are equipped with a wide variety of GISc, remote sensing, modeling, geostatistical, cartographic, and graphic design software, and the GISc Lab server maintains an extensive and up to date collection of data bases. Printing capability includes color laser printers as well as a large-format plotter and scanner. There are also fully-equipped Earth Science and Environmental Science laboratories.

Ph.D. Program: The department participates in the Earth and Environmental Sciences Ph.D. program at the CUNY Graduate Center, offering specializations in Geography and Environmental and Geological Sciences. For further information about the PhD program in EES, contact Dr. Cindi Katz, EES Executive Officer, at (212) 817-8241 or email: ckatz@gc.cuny.edu.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Admission to the undergraduate major programs in the EECS Dept. is the same as that for admission to the City University of New York. Application info is available at <http://www2.cuny.edu/admissions/undergraduate/apply/>.

Undergraduate majors are eligible to earn credit through internal and external internship programs. Exceptional undergraduate students are encouraged to apply for the Accelerated Bachelor's/Master's program which allows both degrees to be earned in a total of five years of full-time study. Information about financial aid programs is available at <http://www.lehman.cuny.edu/financial-aid/>

Applications to the MS-GISc Program and Advanced Certificate in GISc are submitted through the "Apply Yourself" online process, which can be accessed at <https://app.applyyourself.com/?id=lehmangrad>.

In order to be admitted to the GISc graduate programs, applicants are required to have earned a Bachelor's degree with minimum 3.0 GPA, and provide official transcripts of all post-secondary school coursework, at least 2 letters of recommendation, a CV, and a short essay describing their interest in GISc and the MS-GISc Program at Lehman. GREs are not required. The deadline for Fall term admissions is April 15th of the prior Spring term. The deadline for Spring term admissions is October 1st of the prior Fall term. Questions about the admissions process should be directed towards the Graduate Admissions Office, at 718 960-8777 or email: graduate.admissions@lehman.cuny.edu.

FACULTY: The EECS faculty (listed below) consists of full-time professors, most of whom, in addition to having advanced degrees in the field and academic experience in teaching, have also held positions in various governmental agencies, not-for-profit organizations, and private sector consulting firms, outside of academia. The GISc program faculty also includes several affiliated professors from allied CUNY programs, and long-term adjunct instructors who are drawn from the professional world of GISc practice, lending an additional "real-world" experiential aspect to the program.

Stefan Becker, Professor; Dr. rer. Nat., Justus-Liebig — University Giessen. Climatology, severe weather, environmental pollution, environmental modeling.

Yuri Gorokhovich, Associate Professor; Ph.D., CUNY Graduate Center — Geology, natural hazards and disasters, spatial modeling with GIS, geoarchaeology.

Irene Leung, Professor; Ph.D., University of California at Berkeley — Mineralogy, petrology, diamonds, meteorites & planetary science

Juliana Maantay, Professor; Ph.D., Rutgers University — Urban environmental analysis, medical geography, Geographic Information Science, environmental justice, sustainable community-based development, participatory geographic information systems, exposure and vulnerability assessment

Elia Machado, Associate Professor; Ph.D., Clark University — GIS and spatial analysis, global environmental change and vulnerability assessment, remote sensing

Hari Pant, Assistant Professor; Ph.D., Dalhousie University — Biogeochemical cycles, sediment/water quality, ecological indicators, global change

Gautam Sen, Professor; Ph.D., University of Texas at Dallas — Petrology, earth materials

Heather Sloan, Associate Professor; Ph.D., University of Paris — Marine geophysics, seafloor morphology, plate kinematics, Earth Science Education

AFFILIATED FACULTY AND LONG-TERM ADJUNCTS:

Jennifer Brisbane, Adjunct Assistant Professor; Ph.D., CUNY Graduate Center — Historical GIS, environmental justice, spatial analysis, programming for GIS, mobile GIS application development

Gretchen Culp, Adjunct Assistant Professor; Ph.D., CUNY Graduate Center — Cartography, color vision confusion, visualization of public health data, and urban geography

Glen Johnson, Associate Professor, CUNY School of Public Health; Ph.D., Penn State University — Geo-spatial aspects of health, environmental and community-level social determinants of health outcomes, quantitative methods

Andrew Maroko, Associate Professor, CUNY School of Public Health; Ph.D., CUNY Graduate Center — GIS and geo-spatial statistics with applications to environmental health and environmental justice, integration of GIS, remote sensing, spatial analysis and modeling, impacts of exposure, built- and social-environments on public health

George Musa, Adjunct Assistant Professor, Ph.D., CUNY Graduate Center — Quantitative Methods, Geostatistics, Epidemiology, Medical Geography

Holly Porter-Morgan, Adjunct Associate Professor; Ph.D., CUNY Graduate Center — Biogeography, ecology, spatial analysis, conservation, GIS, biogeographic and computational models

EMERITUS FACULTY:

William Bosworth, Ph.D., Princeton University — Demographic analysis, urban social issues

Frederick Shaw, Ph.D., Harvard University — Oceanography, marine paleontology, stratigraphy

MONROE COMMUNITY COLLEGE (STATE UNIVERSITY OF NEW YORK)

DEPARTMENT OF CHEMISTRY AND GEOSCIENCES**DATE FOUNDED:** circa 2017**DEGREES AND CERTIFICATES OFFERED:** GIS

certificate, Associate Degree in Geography with concentrations in Human, Physical, Regional, and Geospatial Technology

CHAIR: Margaret Kaminsky**DEPARTMENT ADMINISTRATIVE ASSISTANT:** Judith Miller

FOR FURTHER INFORMATION CONTACT: Department of Chemistry and Geosciences, 1000 E. Henrietta Road, Rochester, NY 14620. Telephone (585) 292-2425 jmiller264@monroecc.edu

PROGRAMS AND RESEARCH FACILITIES: Monroe Community College offers introductory human, regional, and physical geography courses as well as political geography, world regional, economic geography, geography of tourism destinations, and the geography of genocide. Our offerings in GIS include introduction to GIS, cartography, spatial analysis, remote sensing, and a capstone in geospatial technology. Students and faculty in GIS have opportunities to connect with local industry and government through collaborations with community partners, service learning projects, internships, field trips, and virtual internships. More than half of our courses are online.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Monroe has been ranked in the top 25 community colleges in the nation. Monroe uses a semester system. Students may enroll full or part time and courses are available on the main Brighton

campus, Downtown campus as well as Online. Further information is available at <http://www.monroecc.edu/admissions/> and <http://www.monroecc.edu/depts/geography/>.

GEOGRAPHY FACULTY:

Michael Boester, M.A., Southern Illinois University-Edwardsville, 2001, Associate Professor of Geography

Jonathon Little, M.S., University of Delaware, 2006, Assistant Professor of Geography and GIST Coordinator

Heather Pierce, M.A., University of Connecticut, 2007, Instructor of Geography

ADJUNCT FACULTY:

Justin Cole, M.S., Rochester Institute of Technology, GISP

Razy Kased, M.A., University of Buffalo, EagleView Pictometry

Timothy McDonnell, M.A., University of Rochester, New York Geographic Alliance Coordinator

Mark McLean, B.S., State University of New York Oswego State University, AMS Certified meteorologist, 13 WHAM meteorologist

Michael Rodgers, M.S., State University Brockport

ONONDAGA COMMUNITY COLLEGE

DEPARTMENT OF SOCIAL SCIENCE/PHILOSOPHY**DATE FOUNDED:** 1962**DEGREES OFFERED:** A.A., A.S.**CHAIR:** Arnaud Lambert,**DEPARTMENT ADMINISTRATIVE ASST:** Cheryl Langdon**FOR CATALOG AND FURTHER INFORMATION WRITE**

TO: Office of the President, Onondaga Community College, 4585 West Seneca Turnpike, Syracuse, NY 13215; email: occinfo@sunyocc.edu

GEOGRAPHY COURSES: Introduction to Geography, Economic Geography, Geography of the United States, Global Sustainability

ADMISSION REQUIREMENTS AND FINANCIAL AID:

Director of Admissions, Onondaga Community College, Syracuse, NY 13215; email: occinfo@sunyocc.edu

GEOGRAPHY FACULTY:

Leonard Pyczynski, M.A., Ball State University, Adjunct Professor of Geography — North America, Europe, Economic Geography

SUNY BUFFALO STATE

DEPARTMENT OF GEOGRAPHY AND PLANNING**DATE FOUNDED:** 1965**DEGREES OFFERED:** B.A., B.S.**GRANTED 8/31/16-8/31/17:** 10 Bachelors**CHAIR:** Kelly M. Frothingham**DEPARTMENT ADMINISTRATIVE ASST:** Patty Korta**FOR CATALOG AND FURTHER INFORMATION WRITE**

TO: Dr. Kelly M. Frothingham, Department of Geography and Planning, SUNY Buffalo State, 1300 Elmwood Ave., Buffalo, New York 14222-1095. Telephone (716) 878-6216. Fax (716) 878-4009. E-mail: frothikm@buffalostate.edu. Internet: <http://geography.buffalostate.edu/>.

PROGRAMS AND RESEARCH FACILITIES: The Department now offers three undergraduate degrees, a B.A. in Geography, a B.S. in Environmental Geography, and a B.S. in Urban and Regional Planning. The Geography B.A. provides students with maximum flexibility to choose the geography courses that interest them the most. Students can take a variety of courses to experience breadth in the field, or they can focus on a subfield in geography to gain depth. The Environmental Geography B.S. provides students with the opportunity to study how humans impact, manage, and conserve the natural environment, including landforms, water and soil resources, climate, and plant and animal communities. The Urban and Regional Planning B.S. emphasizes the applied aspects of physical land use planning and planning for sustainable communities. Coursework in GIS is emphasized in the programs and the Department maintains two well-equipped computer labs to support GIS and other computer-intensive courses. Qualified students are provided ample opportunity for internships and independent research.

The Department's environmentally-oriented undergraduate curriculum is supported by collaboration with SUNY Buffalo State's Great Lakes Center (GLC). The GLC maintains a large aquatic research field station on Lake Erie and field work is supported with a fleet of boats for activities, such as water quality sampling. Department faculty members also advise and supervise master's students in the GLC's Great Lakes Ecosystem Science (GLES) programs (M.A. and M.S.). Both GLES programs are interdisciplinary environmental science programs with a required GIS component. The M.A. is a traditional thesis-based program that prepares graduates for advanced research, professional employment, or study at the Ph.D. level. The M.S. is a Professional Science Master's (PSM) program that enhances the environmental science curriculum with coursework in project management and communication strategies and a required internship with an environmental agency. GLES M.S. graduates are prepared to provide a leadership role as they address a wide range of problems and issues related to the management of resources within the Great Lakes and surrounding watersheds.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester plan. The Department accepts all students admitted to BSC. All financial aid and scholarship assistance is provided at the College level. All applicants should apply to the Admissions Office, SUNY Buffalo State, 1300 Elmwood Ave., Buffalo, NY 14222.

FULL-TIME FACULTY:

Kelly M. Frothingham, Ph.D., University of Illinois, 2001, Professor — physical geography, fluvial geomorphology, watershed planning, stream assessment and restoration
Camille A. Holmgren, Ph.D., University of Arizona, 2005, Associate Professor — physical geography, Quaternary paleoecology, paleoclimatology, biogeography, global change
Jason C. Knight, Ph.D., AICP, University at Buffalo, 2013, Assistant Professor — urban and land use planning, housing and real estate, planning methods, urban geography
Wende Mix, Ph.D., University at Buffalo, 1987, Associate Professor — transportation planning, urban geography, GIS
Tao Tang, Ph.D., Wisconsin-Milwaukee, 1997, Professor — GIS, remote sensing, physical and environmental geography
Vida Vanchan, Ph.D., University at Buffalo, 2006, Associate Professor — economic geography, industrial competitiveness, development, international trade, multicultural management and negotiation
Stephen J. Vermette, Ph.D., McMaster, 1988, Professor — meteorology, climatology, air quality, field methods
Veryan G. Vermette, M.S., McMaster, 1986, Lecturer — physical geography, human geography, urban geography, geography of Europe
William F. Wieczorek, Ph.D. University at Buffalo, 1988, Research Professor — health and human services geography, GIS, spatial analysis, research methods

PART-TIME FACULTY:

James R. Bensley, M.U.R.P., AICP, Virginia Polytechnic, 1988, Lecturer — urban planning, land use planning, physical development
Scott Pickard, M.S., SUNY Buffalo State, 1996, Lecturer — environmental science, environmental impact assessment
Josh Unghire, M.S., Duke University, 2009, Lecturer — environmental management, restoration ecology, water resources development

TECHNICAL STAFF:

Mary Perrelli, M.A., University at Buffalo, 1999, GIS Laboratory Manager and Lecturer — GIS, physical and environmental geography

STATE UNIVERSITY OF NEW YORK (SUNY) - COLLEGE AT GENESEO

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1965

DEGREES OFFERED: B.A.

GRANTED 9/1/17-8/31/18: 32 Bachelors

MAJORS: 94

CHAIR: Jennifer Rogalsky

DEPARTMENT SECRETARY: Mary Kuhn

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Chair, Department of Geography, State University College at Geneseo, 1 College Circle, Geneseo, New York 14454. Telephone (585) 245-5238. Fax (585) 245-5180. Internet: rogalsky@geneseo.edu, or Admissions Office, State University College at Geneseo, 1 College Circle, Geneseo, New York 14454. Telephone (585) 245-5571.

PROGRAMS AND RESEARCH FACILITIES: The Geography degree program is broad in nature requiring courses in Human Geography, Physical Geography, Regional Geography and Geotechniques. The Environmental Studies and Urban Studies minors are administered by the Geography Department. Study abroad, internships, and active research participation with faculty members are encouraged. Facilities include a state-of-the-art GIS and Physical Geography labs. Geneseo's Geography Department has maintained a high standard of quality. Approximately 50 percent of graduates go on to graduate programs in geography and are usually awarded research or teaching assistantships. The majority of graduates find employment with local, state, and federal governmental agencies or with private firms.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Semester system. Freshman applicants must have a high school diploma and should submit SAT or ACT scores. All applicants, including transfer students, are encouraged to contact the Department of Geography, and should apply directly to the Admissions Office, State University College, Geneseo, New York 14454.

Federal and State financial assistance programs, and scholarships, are available for qualified undergraduate students.

FACULTY:

David Aagesen, Ph.D., U. of Minnesota, 1998, Associate Professor — Latin America, resource management, environmental
Colleen Garrity, Ph.D., Arizona State U., 2007, Assistant Professor — climate, GIS, geovisualization

James Kernan, Ph.D., West Virginia University, 2009, Associate Professor — physical, biogeography, GIS
Darrell A. Norris, Ph.D., McMaster, 1976, Professor — historical, developing world, Pacific Rim, cultural landscape, political, trade area analysis
David Robertson, Ph.D., U of Oklahoma, 2000, Professor — cultural, historical, environmental, Canada
Jennifer Rogalsky, Ph.D., U of Tennessee, Knoxville, 2006, Associate Professor and Chair — urban, developing world, Ghana, poverty
Stephen Tulowiecki, Ph.D., U. at Buffalo, 2015, Assistant Professor — GIS, physical, environmental

SYRACUSE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1931

GRADUATE PROGRAM FOUNDED: 1926

DEGREES OFFERED: B.A., M.A., and Ph.D.

GRANTED 9/1/16 - 8/31/17: 21 Bachelors, 6 Masters, 3 Ph.D.

STUDENTS IN RESIDENCE: 54 Majors, 11 Masters, 29 Ph.D.

NOT IN RESIDENCE: 1 Masters, 6 Ph.D.

CHAIR: Jamie Winders

DEPARTMENT ADMINISTRATIVE ASST: Margie M. Johnson

FOR FURTHER INFORMATION WRITE TO: Chair of Graduate Committee, Department of Geography, 144 Eggers Hall, Syracuse University, Syracuse, New York 13244-1020. Telephone (315) 443-2605. Fax (315) 443-4227. E-mail: geography@maxwell.syr.edu. Internet: www.maxwell.syr.edu/geol/.

PROGRAMS AND RESEARCH FACILITIES: The Syracuse University Department of Geography is characterized by dynamic scholarship and teaching that build on almost a century of distinguished achievement. Our location within the nation's top school of public policy, the Maxwell School of Citizenship and Public Affairs, ensures that geographers can address both the real-world policy implications and the scholarly meaning of their research. Interdisciplinary links stretch across our campus, as both faculty and students draw on the intellectual resources of the College of Arts and Sciences (of which we are also part), the University at large, and the adjacent campus of the SUNY College of Environmental Science and Forestry.

The expertise and research foci of department members span a range of topics in human, environmental, and physical geography and in geographic information and analysis. SU geographers conduct field research in Central and South America; Europe; Southeast, Central, and East Asia; and Southern Africa, as well as across North America. Prospective students will find opportunities to develop an array of research skills and to study and conduct research with faculty in the following areas:

Community Geography: Syracuse geographers in this area seek to make geography relevant and accessible through scholarship and teaching that address social inequalities. Research by faculty is action-oriented and engages local communities in the research process. Topics examined include urban infrastructure, food deserts, and participatory GIS and community planning. Community Geography at Syracuse integrates many different theoretical and conceptual traditions in geography, urban planning, and public health and incorporates participatory, critical, and qualitative GIS, radical cartography, and feminist geography.

Environment and Society: Nature-society scholarship at Syracuse examines the relationship between society and the environment, employing perspectives from the social sciences, humanities, and natural sciences. Our faculty engage topics like political ecology, water resources, environmental justice, environmental history, environmental governance, animal geographies, political economy of nature, energy and natural resources, hazards and social vulnerability, development and livelihoods, and the human dimensions of environmental change. Syracuse geographers also study sustainable development, nature conservation and protected areas, forest fire dynamics and management, media coverage of environmental issues, and human impacts on climate, vegetation, and landform processes.

Environmental Science and Landscape Processes: Physical geographers at Syracuse focus on spatial and temporal aspects of environmental science, with the aim of clarifying the dynamic processes that shape the earth's landscapes. Faculty conduct research in four broad areas: human and natural disturbance impacts on riparian habitats and forest ecosystems; development of field and analytic techniques for examining recent and Pleistocene environmental change; processes and implications of sediment transport in rivers; and climate-land surface interactions. Graduate students have use of our Physical Geography Research Laboratory, which is equipped for a variety of soil and sediment analyses and includes a Sedigraph 5120 for particle size analysis.

GIS and Geospatial Technologies: Faculty in this focus teach and study GIS, applications and methods in geographic information technologies (i.e., computer cartography, remote sensing, multimedia), spatial analysis and modeling, hydrological and ecosystem modeling, and participatory geographic information systems. Faculty and graduate students conduct research on a range of key societal and environmental issues, with recent topics including the visualization of historical land change, unmanned aerial vehicles, public participation GIS for community action, the geodesign framework for architectural design and urban planning, and the history of cartographic innovation.

Historical Geography and GeoHumanities: Geographers in this area employ archival methods, GIS, critical theory, qualitative methodology, and community engagement to understand how people shape and are shaped by place and landscape. Research includes Native American understandings of Onondaga Lake and spatial histories of the lake's transformation; social media, the climate movement; environmental activism; and citizen engagement through grassroots action along the Erie Canal corridor.

Political Economy: Syracuse geographers understand political economy to be a social relationship that is deeply geographical. Our research starts from the understanding that social relations, social struggles, and social justice are all intricately related to the ways that political-economic processes are imbricated in and transformed through spatial relationships. In addition to understanding the relationship between political economy and geography, we seek to understand the relationship between political economy and gender; political economy and labor; political economy and the restructuring of places and regions; and political economy and culture. In all of these, we want to understand how space, place, region, and scale structure and restructure political economic processes, even as the processes restructure space, place, region, and scale.

Political Geography, Citizenship, and Development: At Syracuse, geographers research the relationships between flows and networks of activity, interaction, and power that are producing an increasingly interconnected world. We study the historical and geographical contexts both within which the lives of people and places are transformed and through which flows of capital, people, information, and knowledge are sped-up, spread-out, and made more intensive. By focusing on development, we pay particular attention to the inequalities created by these flows among groups and in spaces and places that have been historically marginalized or subject to control

within national and international systems. Research in this area includes geopolitics and the state system; transnational market policies and governance; nationalism, gender, and citizenship; immigration and social belonging; the impact of colonialism and international development policies; and labor markets and industrial development.

Urban Space, Justice, and Culture: Syracuse geographers join the study of urban landscapes, politics, and processes to broader struggles for racial and gender equality, social justice, and political transformation. Through projects that range from constructing urban geographies of memory to examining spatial strategies of immigrant inclusion and exclusion, our faculty draw on a variety of methodological and theoretical perspectives, particularly social theory, to interrogate the production of urban spaces and experiences.

Within the Maxwell School, the department has links with numerous interdisciplinary programs and centers: International Relations; Center for Policy Research; Center for Environmental Policy and Administration; Moynihan Institute of Global Affairs; Institute for the Study of the Judiciary, Politics and the Media; Program for the Advancement of Research on Conflict and Collaboration; and the South Asia Center. A notable opportunity is the concurrent master's degree in Geography and the nationally top-ranked Public Administration program. This concurrent degree provides outstanding training for a public sector career. (58 credit hours are required; information upon request.) Study in our physical geography/environment clusters is supported by courses and research opportunities in Syracuse University's Departments of Civil and Environmental Engineering, Biology, and Earth Sciences and at the neighboring SUNY College of Environmental Science and Forestry. The department is a founding member of the UCGIS, University Consortium for Geographic Information Science.

Faculty and graduate student offices, the department's Preston E. James Library, and the Geographic Information and Analysis Laboratory are in a centrally located building, Eggers Hall, within easy reach of libraries (the collection of over two million volumes has extensive hardcopy and electronic holdings for geographic research), the Physical Geography Laboratory, and the Integrated Spatial Dynamics Laboratory. The Eggers complex is fully networked for wireless computing and communication and possesses advanced telecommunications technology for global and national communication, exchange, and learning.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: A student may enter the undergraduate geography program once accepted into the College of Arts and Sciences; a major program of study must be chosen by the junior year. The geography major consists of a minimum of 33 credit hours (i.e., eleven courses). Having completed foundation work on human geography, nature-society relations, and physical geography, the student must choose at least six upper-division courses from an array of systematic and regional topics, as well as a course in geographic techniques. A senior-year seminar requirement ensures that the student pursues a particular research topic in some depth and is able to present and justify his or her findings in both oral and written form. Simultaneous participation in the College's honors program is encouraged, and numerous possibilities exist for dual majors. There is also a minor in geography and in Environment and Society. For further information, contact Dr. Peng Gao, Undergraduate Director (pegao@maxwell.syr.edu).

GRADUATE: Semester system. *Academic Plan:* the M.A. degree requires 30 credit hours, culminating in either a Master's thesis or two Master's papers, and a final oral examination; the choice of degree program will depend on the student's interests and academic objectives. Emphasis is placed on the acquisition of a range of research skills and methods that can be applied in a variety of career contexts and used in doctoral programs. The Ph.D. degree entails an

additional 30 credit hours of courses both inside and outside the department, 12 credit hours of dissertation research, the writing of an approved dissertation proposal, the satisfactory completion of a combined written and oral qualifying examination, and the successful completion and oral defense of the doctoral dissertation. Students wishing to enter the Ph.D. program should have a clear idea of dissertation plans to facilitate construction of a doctoral program of study. All applicants are encouraged to correspond with individual faculty regarding their special interest in any aspect of the Syracuse program in geography. *Admission:* The department does not subscribe to specific numerical criteria for evaluations of applications; minimum levels normally acceptable, however, for the undergraduate grade point average are about 3.0 (on a 4.0 basis). Samples of written work may be submitted on a voluntary basis (these cannot be returned) to help the department evaluate applications on an individual basis. Applicants must submit transcripts, three letters of recommendation, a statement of intent, GRE scores on the Verbal, Quantitative, and Analytic Tests, and — if applicable — scores from the TOEFL. Prospective students are strongly recommended to take the GRE and TOEFL exams and to submit application materials as early as possible.

Financial Aid: Graduate Assistantships; University, McNair, and Watson Fellowships; and various tuition scholarships and other awards are available on a competitive basis. Graduate assistantships include tuition and health care. Applications should be completed by January 5th to ensure full consideration for financial support. For further information, contact Dr. Tom Perreault, Graduate Director (taperrea@maxwell.syr.edu).

FACULTY:

- Shere Abbott, M.F.S. Yale University, University Professor* — climate change, energy, sustainability
- Jacob Bendix, Ph.D., Georgia, 1992, Associate Professor, Adjunct Associate Professor, SUNY-ESF* — biogeography, geomorphology, human impacts on vegetation and land forms, media and environmental issues
- Peng Gao, Ph.D., University of Buffalo, 2003, Professor and Undergraduate Director* — Geographic information systems modeling, human impacts on physical environments, fluvial systems
- Timur Hammond, Ph.D., University of California, Los Angeles, 2016, Assistant Professor* — Middle East, Turkey, cultural geography, urban geography, religion, identity
- Matt Huber, Ph.D., Clark University, 2008, Associate Professor* — resource geography, historical geography, political economy, energy, industrial ecologies
- Natalie Koch, Ph.D., University of Colorado Boulder, 2012, Associate Professor* — political geography, nationalism, geopolitics, post-Soviet Central Asia, Arab Gulf states, higher education, qualitative methods
- Mark Monmonier, Ph.D., Pennsylvania State, 1969, Distinguished Professor of Geography* — geographic information (technology, policy, and societal role), cartographic communication and map design, history of cartography in the 20th century, environmental mapping
- Anne E. Mosher, Ph.D., Pennsylvania State, 1989, Associate Professor* — urban, historical, social geography, interdisciplinary theories of space and place
- Thomas A. Perreault, Ph.D., University of Colorado at Boulder, 2000, Laura J. and L. Douglas Meredith Professor for Teaching Excellence and Graduate Director* — political ecology, environment and development, social movements, Latin America
- Jane M. Read, Ph.D., Louisiana State, 1999, Associate Professor* — Geographic information systems, remote sensing, tropical environments, land use and land-cover change, Latin America

Jonnell A. Robinson, Ph.D., University of North Carolina Chapel Hill, 2010, Associate Professor — Community geography, geographic information systems, participatory GIS, participatory action research, public health geography, qualitative research methods

Tod D. Rutherford, Ph.D., University of Wales at Cardiff, 1992, Professor — economic restructuring, labor market change and policy

Farhana Sultana, Ph.D., University of Minnesota, 2007, Associate Professor — environment and development, water resources management, political ecology and natural hazards, feminist theory

John Western, Ph.D., UCLA, 1978, Maxwell Professor of Teaching Excellence — social, cultural, urban, France, Southern Africa

Robert M. Wilson, Ph. D., University of British Columbia, 2003, Associate Professor — Environmental historical geography, western U.S. and Canada, environmental policy

Jamie Winders, Ph.D., University of Kentucky, 2004, Professor and Chair — race/ethnicity, urban/social geography, international migration, gender, qualitative and historical research methods, social theory

AFFILIATED FACULTY:

Anne Bellows, Ph.D., Geography, Rutgers University, 1999, Professor, Food Studies, Syracuse University — sustainable agriculture, development, food security

Laura-Anne Minkoff-Zern, Ph.D., Geography, University of California, Berkeley, 2012, Assistant Professor, Food Studies, Syracuse University — Race, labor, and immigration in the food system, agricultural politics and policy, sustainability studies, feminist methodologies

Sharon Moran, Ph.D., Geography, Clark University, 2000, Associate Professor, Environmental Studies, SUNY-ESF — environmental policy, nature-society relations, water and wastewater management, environmental issues in post-communist countries

Beverley Mullings, Ph.D., McGill, 1996, Associate Professor, Queen's University, Department of Geography — international political economy, service industry development, gender and economic globalization in the Caribbean

John Stella, Ph.D., Environmental Science, Policy and Management, University of California, Berkeley, 2005, Associate Professor, SUNY-ESF, Department of Forest and Natural Resource Management — riparian ecology, ecosystem restoration, plant physiology, community dynamics

Weissman, Evan, Ph.D., Geography, Syracuse University, 2012, Assistant Professor, Food Studies, Syracuse University — Alternative food networks; urban agriculture; political economy of agro-food; urban political ecology

EMERITI FACULTY:

Robert G. Jensen, Ph.D., Washington, 1964, Professor Emeritus — regional development and urban policy in Russia, Russian resource development and East-West trade, Russia and independent states

Donald W. Meinig, Ph.D., Washington, 1953 Professor Emeritus — historical, cultural and social, landscape interpretation, North America

John Mercer, Ph.D., McMaster, 1971, Professor Emeritus — comparative urbanization, urban housing, Canada

Don Mitchell, Ph.D., Rutgers, 1992, Distinguished Professor Emeritus of Geography — cultural, historical, labor, social theory, Marxist approaches to geography

Susan W.S. Millar, Ph.D., Rutgers, 1995, Associate Professor Emeritus — physical geography, periglacial geomorphology, microclimatology, Arctic environmental science

James L. Newman, Ph.D., Minnesota, 1968, Professor Emeritus — population, diet-nutrition, tropical Africa

David J. Robinson, Ph.D., London, 1967, Professor Emeritus — Latin American development, colonialism, historical, the Internet

UNITED STATES MILITARY ACADEMY

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL ENGINEERING
DATE FOUNDED: 1802

DEGREES OFFERED: B.S.

GRANTED 08/01/17-08/31/18: 21 Bachelors of Geography, 19 Geospatial Information Science

MAJORS: 105 Geographers; 6 Geography Minors, 93 Geospatial Information Science; 380 total

CHAIR: Colonel Mark R. Read, Ph.D.

DEPARTMENT ADMINISTRATIVE OFFICER: Ms. Mary Ellen DeLuca Kreder

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

COL Andrew Lohman, Geography Program Director, Department of Geography and Environmental Engineering, United States Military Academy, West Point, New York 10996-1695. Telephone (845) 938-2930. Fax (845) 938-3339.

E-mail: Andrew.Lohman@usma.edu.

Internet: <http://www.usma.edu/gene/SitePages/Home.aspx>.

PROGRAMS AND RESEARCH FACILITIES: The program is designed to provide a strong background in geography or environmental studies, allowing special emphasis in six major areas: human geography, human-environment interaction, physical geography, environmental engineering, environmental science, and geospatial information science. Geography majors take 10 geography courses in addition to the Academy's 27-course core curriculum (that includes a physical geography course), as well as three Complementary Support Courses (electives outside the major that add breadth or depth to a topic or region of the Cadets' interest). Furthermore, the Department offers program-specific capstone courses in Environmental Security, Military Geography, and Environmental Engineering Design. An honors program culminating in a research-based thesis is offered for qualified students. The Department offers a variety of summer enrichment programs which provide cadets the opportunity to obtain practical field experience in geography-related themes which can lead to individual research projects during the following academic year. Cadets have interned at federal agencies such as the National Oceanic and Atmospheric Administration, Environmental Protection Agency, Waterways Experiment Station, Air Force Global Weather Center, Cold Regions Research and Engineering Laboratory, Defense Intelligence Agency, Topographic Engineering Center, and National Aeronautics and Space Administration, and have participated in oceanic surveys, coastal hazard studies, desert environmental research, environmental audits of Army installations, and GIS-based studies. Additionally, cadets may participate in cultural immersion trips to locations such as Israel, Uganda, Ethiopia, and others. Cadets and faculty rely on research support from the USMA library, which houses 500,000 volumes and 1,600 periodicals. The Department library, a branch of the USMA library, houses over 1,800 books, theses, atlases, and 21 journals. The Department of Geography and Environmental Engineering maintains the Academy's Geographic Sciences Laboratory, which includes twenty GIS and six photogrammetry workstations along with a new multi-media instructional facility. In addition, fully equipped laboratories support instruction and research in remote sensing/photogrammetry, environmental engineering, geology, geomorphology, and cartography. The Department is dedicated to remaining at the technological forefront in its areas of emphasis. The Department also houses the Center for the Study of Civil-Military Operations and has two faculty members in the Center for the Study of Languages, Culture, and Regional Studies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Application for admission and information concerning nomination for appointment may be obtained by contacting the Director of Admissions, United States Military Academy, West Point, New York, 10996. All students are members of the United States Army and as such receive salaries and pay no tuition for attendance.

FACULTY:

Patrick Baker, Ph.D., Miami University, 2009, Assistant Professor — environmental science
Peter Bier, M.S., Wisconsin, 2017, Instructor — environmental engineering
Michael A. Butkus, Ph.D., Connecticut, 1997, Professor — environmental engineering
Philip J. Dacunto, Ph.D., Stanford University, 2013, Associate Professor & Deputy Head — environmental engineering
Christopher Fuhrman, Ph.D., Utah, 2017, Assistant Professor — terrorism, political conflict, military geography, physical geography
Elizabeth Dzwonczyk, M.S., Pennsylvania State University, 2016, wInstructor — medical geography, physical geography
John Dzwonczyk, M.S., Pennsylvania State University, 2016, Instructor — economic geography, energy, physical geography
Ian Irmischer, Ph.D., University California, Santa Barbara, 2016, Assistant Professor, Geospatial Information Science — GIS, physical geography
Adam J. Kalkstein, Ph.D., Arizona State University, 2008, Associate Professor (Geography) — climatology, physical geography
Mindy Kimball, Ph.D., Arizona State, 2014, Assistant Professor & Academy Professor — environmental science
Zachary Landis, M.A., South Carolina, 2017 — hazards, geography education, physical geography
David J. Leydet, M.S., Oregon State University, 2016, Instructor — geomorphology, physical geography
Andrew D. Lohman, Ph.D., Illinois, 2009, Associate Professor (Geography), Academy Professor, & Geography Program Director — human geography, political geography, military geography
Jon C. Malinowski, Ph.D., North Carolina-Chapel Hill, 1995, Professor (Geography) — cultural geography, environmental perception, geography of childhood, spatial behavior, Asia
Erick V. Martinez, M.E. University of Florida, 2016, Instructor — environmental engineering
John M. Melkon, II, MPA, Texas A&M, 2005, Director, Center for the Study of Civil-Military Operations (CSCMO) — civil-military operations
Kyle Murray, M.S., California – Los Angeles, 2017 — environmental engineering
Christopher Nixon, M.S., Naval Postgraduate School, 2012, Instructor (Geography) — meteorology, physical geography
Luke T. Plante, M.S., Columbia University, 2016, Instructor — environmental engineering
Gabe Powell, M.S., University of Mississippi, 2016, Instructor, Geospatial Information Science — geology, physical geography
Charles Ouellette, M.S., Cornell University, 2016, Instructor — environmental engineering
Christopher E. Oxendine, Ph.D., George Mason, 2013, Assistant Professor — GIS
Landon Raby, M.S., Colorado, 2017, Instructor — environmental engineering
Joel Radunzel, M.S., Syracuse, 2015, Assistant Professor (Geography) — historical geography, cartography
Mark Read, Ph.D., Penn State, 2014, Department Head & Assistant Professor (Geography) — environmental geography, physical geography, military geography
Amy Richmond, Ph.D., Boston University, 2005, Professor (Geography) — physical geography, environmental geography, energy, environmental economics

Jason Ridgeway, Ph.D., Texas A&M, 2017, Assistant Professor — cultural geography, physical geography
Nathaniel Sheehan, M.S., Arkansas – Fayetteville, 2013, Instructor — environmental engineering
Benjamin Sylvester, M.A., South Carolina, 2017, Instructor — cultural geography, physical geography
Jared Ware, M.Sc., Cranfield University, 2002, Instructor — GIS, remote sensing
Wallen, Benjamin, PE, PMP, Ph.D., Colorado School of Mines, 2016, Assistant Professor — environmental engineering
Richard L. Wolfel, Ph.D., Indiana, 2001, Professor (Geography) — cultural geography, Europe, Russia, political geography, social geography, quantitative methods
William Wright, Ph.D., Florida, 2017, Assistant Professor, Geospatial Information Science — GIS, remote sensing, photogrammetry

UNIVERSITY AT ALBANY, STATE UNIVERSITY OF NEW YORK

DEPARTMENT OF GEOGRAPHY AND PLANNING

DATE FOUNDED: 1966

GRADUATE PROGRAM FOUNDED: 1970

DEGREES OFFERED: B.A., M.A., combined B.A./M.A., M.R.P, M.S.-GIS, combined M.R.P./J.D.

CHAIR: Andrei Lapenas

ADMINISTRATIVE MANAGER: Marcia Catrambone

DEPARTMENT SECRETARY: Ashley Walters

FOR CATALOG AND FURTHER INFORMATION VISIT

www.albany.edu/gp or contact Department of Geography and Planning, UAlbany-SUNY, Arts & Sciences 218, Albany, New York 12222. Telephone (518) 442-4636. E-mail: amwalters@albany.edu. Information on all of our programs is available on the website: <http://www.albany.edu>.

PROGRAMS AND RESEARCH FACILITIES: The University is located in the historic city of Albany, capital of New York State, and at the heart of the Northeast, with easy access to New York City, Boston and Montreal. The New York Capital Region is an emerging center of high tech development, heritage tourism and cultural activity. Located by the Hudson River, Albany is close to the Catskill, Adirondack, Berkshire and Green Mountains and many wilderness, lake, trail and ski areas. A cooperative agreement gives UAlbany students opportunities for courses and library privileges at Union College, Rensselaer Polytechnic Institute (RPI), and several other area colleges and universities. The Geography and Planning Department has close ties with local, regional and state agencies, and numerous undergraduate and graduate internship opportunities are available. The Department has a diverse faculty in terms of disciplinary focus, composition, and real-world experience. Faculty members come to the University at Albany after earning graduate degrees or post-doctoral positions at major national and international universities. Full-time professors have active research programs and are often supported with external grants from NSF, NIH, government agencies, and industry. Among the 11 full-time faculty members and 14 adjunct faculty, several have strong international research programs, notably in China, Russia, India, Latin America, Australia, and Africa. At the undergraduate level, the Department offers training in human geography (urban, economic development, cultural, population, environmental), physical geography and climatology, and spatial analysis (GIS, remote sensing, spatial statistics, spatial cognition, cartography). An undergraduate degree option is also available in Urban Studies and Planning. In addition, the Department coordinates the University's Interdisciplinary Major in Globalization Studies. Eligible students can pursue a combined B.A. /M.A. program in

geography. Undergraduates can also earn a Certificate in Geographic Information Systems and Spatial Analysis.

The Department's graduate programs provide students with specialized training and preparation for careers in business, government, education, non-profit organizations and international development. The Master of Arts (MA) in Geography is a flexible degree program that accommodates a wide spectrum of coursework and research in such fields as cultural and political geography; urban and economic geography; migration studies; transportation; physical geography; environmental analysis; climatology; GIS, remote sensing and cartography; and spatial statistics and mathematical modeling. Complementary work in other departments is encouraged. Students in the MA program may select one of two options: the 30-credit thesis track, including completion of a substantial research project; or the 36 credit non-thesis track. In addition, the Department offers a 15-credit Graduate Certificate in GIS and Spatial Analysis, which may be completed separately or within the context of the MA program. The Department also offers a 48-credit Masters in Urban & Regional Planning (MRP), an accredited professional program. Specializations are available in: environmental and land use planning; housing, local economic development and community planning; and transportation planning. Some students choose to work toward both the MA (geography) and MRP (planning) degrees. There also exist an opportunity to enroll into the joint MRP/JD Program. The 87-credit Juris Doctorate (JD) program is offered by the Albany Law School. The benefit of the joint program is the reduction of number of courses from both programs. For details please see the department's website (www.albany.edu/gp). Our newest 36-credit Master of Science in Geographic Information Science (MS GIS) program, opened in 2018, prepares students for careers in a wide range of social and environmental application areas that make use of the technologies and methodologies of spatial analysis and mapping. Departmental faculty routinely participate in doctoral supervision for students with compatible interests through Ph.D. programs in Information Science, Sociology, Anthropology, and Atmospheric Sciences.

The Department maintains the GIS classroom with 26 workstations allowing students complete all their classwork in GIS and remote sensing classes. The Geographic Information Science Research Lab next door runs a full complement of GIS software and data capture, processing, and maintenance tools. Our faculty experts guide students' work in GIS and spatial analysis. The Remote Sensing and Spatial Analysis lab offers opportunities for graduate and undergraduate students interested in engaging in a variety of research projects including, but not limited to, land cover/use transformations, ecosystem analyses, spatial modeling. The facility is equipped with all the important hardware and software a modern day geographer may need to conduct innovative research. Among the essential components is the small fleet of unmanned aircrafts, a.k.a. drones, outfitted with professional grade imaging instruments employed in several ecological, transportation and disaster management studies. The Planning Studio offers dedicated project workspace and facilities for computer-aided design and production of technical reports. The University Libraries have extensive holdings in geography and planning, and major collections are also available at the New York State Library. The Department is closely associated with the University's Lewis Mumford Center for Comparative Urban and Regional Research, and with its Urban China Research Network.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Semester system. Admission is generally granted for the fall, spring, and summer sessions. Early, special, and transfer admissions are available. Financial aid includes New York State and federal awards, the Tuition Assistance Program, Regents College Scholarships, and other programs.

Graduate: The University operates on the semester plan, with additional summer sessions. Applications are received all year.

Teaching assistantships and fellowships with stipends of at least \$4,500 each semester are available through the Department. Research assistantships are commonly available through federal, state, and foundation grants and contracts to faculty members. Current sources include the National Science Foundation, and several New York State agencies. Outstanding opportunities also exist for paid internships with New York State agencies, normally for students who have completed at least one semester of work in the Department. Most assistantships and fellowships, and many paid internships, provide for remission of tuition. Limited financial support during the summer is available on a competitive basis. Students requesting financial aid should submit all application materials, including GRE scores, by March 15 for admission the following fall.

FACULTY:

- Carlos Balsas, Ph.D. University of Massachusetts-Assistant Professor* — Community Development and Neighborhood Planning, Sustainable Transportation Planning, Urban Revitalization, International Planning
- Alexander Buyantuev, Ph.D., Arizona State University, Assistant Professor* — Remote Sensing; Landscape Ecology; Urban Ecology, Land Use and Cover Change, Phenology, Sustainability
- Ray Bromley, Ph.D., Cambridge University, 1975, AICP, Professor* — planning history, metropolitan and regional planning, community development, informal sector, microenterprise, Latin America
- Kate Coddington, Ph.D., Syracuse University, 2014, Assistant Professor* — borders and mobilities, migration, asylum and detention, settler colonialism, citizenship and belonging, feminist epistemology and research methods
- Youqin Huang, Ph.D., University of California, Los Angeles, 2001, Associate Professor* — population, gender, housing and labor markets, urban, GIS, China
- Shiguo Jiang, Ph.D., The Ohio State University; Assistant Professor* — Geographical Information Science and Systems, Remote Sensing Methods and Applications, Spatial Statistics and Environmental Statistics, Land Use and Land Cover Change, Ecological Modeling
- Andrei Lapenas, Ph.D., State Hydrological Institute, St. Petersburg, 1986, Associate Professor* — physical climatic change, Quaternary paleogeography, soils
- Catherine T. Lawson, Ph.D., Portland State University, 1998, Associate Professor* — transportation planning, ITS, freight, quantitative methods, regional science, growth management
- David A. Lewis, Ph.D., Rutgers University, 2003, Associate Professor* — regional planning theories and techniques, brownfields redevelopment, urban and regional economic development
- Rui Li, Ph.D., Pennsylvania State University-Assistant Professor* — Geographical Information Science, Spatial Cognition Wayfinding and Navigation, and Spatial Learning
- James E. Mower, Ph.D., State University of New York at Buffalo, 1988, Associate Professor* — GIS, cartography, automated cartography
- Thomas P. Narins, Ph.D., University of California, Las Angeles, 2014, Assistant Professor* — Chinese-Latin American relations, political geography, political economy, economic geography

ADJUNCT FACULTY:

- Alison Bates, MRP UAlbany, SUNY*
- David Banks, MA Science & Technology, Rensselaer Polytechnic Institute, 2016* — urban geography
- Rocco A. Ferraro, MCRP, Ohio State, 1975, AICP* — sustainable planning, land use, growth management
- Glenn Harland, MA, UAlbany-SUNY, 1994* — physical geography, GIS
- Marcia Kees, BA SUNY Oswego, New York State Office of Parks Recreation and Historic Preservation* — Coordinator of New York State Heritage Area Program (retired)

Jacqueline Ledermann, MA Diplomacy and International Relations, Seton Hall University — globalization
Sean Maguire, MPA, AICP, UAlbany SUNY 2014 — Director of Economic Development
Neusa McWilliams, Ph.D., UC Berkeley 1996 — urban geography, climate change, rural development and sustainability, Latin America region, cultural geography
Robert Murphy, MRP, University at Albany, 2014 — food systems planning and policy, healthy communities, and urban agriculture
Christopher J. O'Connor, UAlbany-SUNY, 2002 — GIS, IT Management, Public Administration
Jeffrey S. Olson, MA, SUNY - Empire State, 1993 — bicycle and pedestrian transportation planning
Ted Orosz, MS, Urban Environmental Studies, Rensselaer Polytechnic Institute 1974, AICP, CTP — public transportation planning, new towns and planned cities in the United States
Anurupa Roy, Ph.D. Ohio State, 2014 — Economic Geography, Urban Geography, Development, Globalization, South Asia
Kurt Swartz, MA, SUNY College of Environmental Science & Forestry 1982, New York State Department of Environmental Conservation, GIS Section Chief (retired)

UNIVERSITY AT BUFFALO (UB), THE STATE UNIVERSITY OF NEW YORK

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1962

GRADUATE PROGRAM FOUNDED: 1963

DEGREES OFFERED: BA, BA/MA, MA, MS, and PhD in Geography; BS and MS in Geographic Information Science; BA and MA in International Trade

GRANTED 9/1/16-8/31/17: **Geography:** 17 Bachelors, 6 MA, 5 MS, 4 PhD; **Geographic Information Science:** 3 Bachelors, 7 MS; **International Trade:** 48 Bachelors, 3 MA

STUDENTS: 102 Majors, 47 Masters, 44 Doctoral

CHAIR: Sean J. Bennett

DEPARTMENT ADMINISTRATOR: Diane Holfelner

FOR FURTHER INFORMATION: Please visit our website: www.geography.buffalo.edu

Graduate applicants: **Please apply online.** The online application should be accessed directly from the department webpage. Address written inquiries to Director of Graduate Studies, Department of Geography, University at Buffalo, 105 Wilkeson Quadrangle, Buffalo, NY 14261-0055, telephone (716) 645-2722, fax (716) 645-2329, and e-mail: geog@buffalo.edu.

Graduates pursue professional careers in government or business, as well as leading teaching and research institutions. Students are encouraged to find internships in business, industry, and/or government agencies. Some examples of potential fields of employment are software development, GIS and mapping technology, remote sensing, population analysis, land use, natural resource and environmental management, statistical analysis, and economic development.

AREAS OF SPECIALIZATION:

The areas of concentration supported by the department are in General Geography, Geographic Information Science, Earth Systems Science, Urban and Regional Analysis, and International Business and World Trade.

General Geography (BA, MA, MS, and PhD degrees) is concerned with the location and arrangement in space of human and natural phenomena, and with the interrelationships between people and their environments.

Geographic Information Science (BS and MS degrees, PhD concentration) provides students with cutting-edge knowledge, skills, and abilities in using geospatial sciences, and this includes geographic information systems (GIS), remote sensing, locational analysis, and geographic visualization. This curriculum focuses on the theoretical foundations of geographical information science, the development and use of state-of-the-art software and emerging technology, and the collection, processing, and interpretation of geospatial information.

Earth Systems Science (BA, MA, MS, and PhD concentrations) examines current environmental problems through quantitative methods, analysis, and modeling grounded in basic and applied science and research. This curriculum introduces students to the fundamental processes that dominate the atmosphere, hydrosphere, lithosphere, and biosphere, their characteristics and complex interactions, and their impact on human life and society.

Urban and Regional Analysis (BA, MA, MS, and PhD concentrations) prepares students to identify and address a wide variety of economic and social problems related to population changes and migration, land use, urban environment, housing, work and welfare, health, and transportation within a geographical context. This curriculum focuses on the theoretical foundations of geographical analysis and urban environments, the use and interpretation of statistics, and the collection, processing, and interpretation of geospatial information.

International Trade degrees (BA, MA, and combined BA/MA, PhD concentration) offer students the opportunity to learn about trade from theoretical and practical perspectives. Students use the tools of economic and business geography to understand the dynamics of multinational corporations, global financial markets, and technology and innovation change, and they learn to evaluate how these global-scale changes create opportunities and constraints for regional development in the United States and abroad. Students focus on the critical social, economic, and environmental challenges faced by workers, corporate decision-makers, government policy makers, and non-governmental organizations, which ultimately shape social outcomes and patterns of uneven development.

GRADUATE DEGREE PROGRAMS:

The Department of Geography offers graduate student training leading to the following degrees: BA/MA, Master of Arts, Professional Master of Arts (portfolio option), Master of Science, Master of Arts in International Trade, Master of Science in Geographic Information Science, and Doctor of Philosophy.

A Master's Degree may be designed as a terminal degree (including a portfolio option), or it may be used as the basis for more advanced graduate study. Pursuit of the portfolio option in Earth Systems Science or Geographic Information Science could enable a student to complete an MA program in as little as one year.

In cooperation with the School of Management, the department offers a joint MA-MBA degree in International Business and World Trade. The department also offers a 5-year BA/MA degree in International Economic and Business Geographies that prepares students for professional or academic career in international business and related fields. The Master of Science degree is intended for students specializing in applications of analytical techniques to the field of geography and geospatial sciences.

The departmental PhD program admits superior students who desire in-depth research and technical training as a prelude to careers in education, government, or industry. Ph.D. programs are designed on an individual basis.

ADMISSIONS & FINANCIAL AID: The University at Buffalo (UB), The State University of New York, is a member of the prestigious Association of American Universities, and it is the largest, most comprehensive, public undergraduate and graduate university in New York, enrolling nearly 30,000 students. UB operates on a semester system.

Undergraduate Admissions: For application information, please visit the Undergraduate Admissions website: <http://admissions.buffalo.edu/apply/index.php> or write to the Office of Admissions, 12 Capen Hall, University at Buffalo, Buffalo, NY 14260 or email: ub-admissions@buffalo.edu. Telephone (888) UB-ADMIT or (716) 645-6900.

Undergraduate Financial Aid: For information, please see <http://admissions.buffalo.edu/costs/index.php> or write to Student Response Center, 1 Capen Hall, University at Buffalo, Buffalo, New York 14260. Telephone (716) 645-8232.

For Honors Program and Presidential Scholarships: <http://honors.buffalo.edu/prospective/scholarships.php> or write to University Honors Program, 106 Capen Hall, University at Buffalo, Buffalo, NY 14260. Telephone: (716) 645-3020

Graduate Admissions: For information, please see website for required materials and deadlines: <http://www.buffalo.edu/cas/geography/graduate-program.html>

Graduate Financial Aid: Departmental graduate assistantships are awarded competitively to well-qualified students. In addition, Presidential and College Fellowships are available on a university-wide competitive basis. For departmental assistantships, interested students must submit requests along with complete application materials. Research assistantships are obtained by invitation from individual faculty researchers. For detailed information on financial aid offerings, please visit the above website.

RESEARCH FACILITIES & FACULTY:

The Department of Geography maintains the Geographic Information and Analysis Laboratory, a multipurpose computing facility. The collection, processing, and presentation of digital information obtained from a variety of sources are critical components to the study of geospatial sciences. Additional teaching and research laboratories provide opportunities for active learning environments and specialized equipment and facilities used in Earth surface processes and environmental science. The department also is home to two research centers. The National Center for Geographic Information and Analysis (NCGIA; www.ncgia.buffalo.edu) has focused its mission on excellence in GIScience research and to provide geospatial services to UB and local communities. NCGIA has established a research infrastructure on campus that links a large number of departments within a number of schools, and its current research strengths lie in multiple aspects of GIScience: ontology/semantics, remote sensing, systems science, and spatial statistics, along with the domain expertise of the core GIScience faculty in Earth systems, social and behavioral, and health sciences. The Center for Trade, Environment, and Development (CTED; <http://www.buffalo.edu/cted.html>) seeks to be a recognized source for independent research and analysis on international trade, investment, and governance, and to contribute to both policy and public debates on these issues. CTED aims to create an intellectual and policy space for alternatives that do not submit to the false binary of nationalist protection versus neoliberal globalization. It supports research that disrupts this dualism with an eye toward progressive, more equitable global relations of trade and investment.

The Department of Geography has a diverse faculty in terms of disciplinary focus, composition, and real-world experience. The department has 20.5 faculty grouped into the following specializations: Earth Systems Science, Geographic Information

Science, Economic and Development Geography, and Urban and Regional Analysis. Faculty members represent the global community (hailing from North America, Europe, and several locations in Asia), and they come to the University at Buffalo after pursuing graduate degrees or post-doctoral or tenure-track positions at major national and international universities, conducting research at federal laboratories, or working in industry. All faculty have active research programs and often supported with extramural funds from NIH, NSF, government agencies, and industry. Several faculty members have earned the rank of SUNY Distinguished Professor and have been awarded the Chancellor's Award for Excellence in Scholarship and Creative Activities and for Teaching, while others have been recognized for their contributions to international education and graduate student mentoring.

FACULTY:

Jared Aldstadt, Ph.D., San Diego State University/University of California, Santa Barbara, 2007, Associate Professor — medical geography, spatial epidemiology, GIScience, spatial analysis

Sharmistha Bagchi-Sen, Ph.D., University of Georgia, 1989, Professor — urban and economic geography, innovation and industry studies, foreign direct investment, biotech and bioenergy

Sean J. Bennett, Ph.D., Binghamton University, SUNY, 1993, Professor and Chair — sediment transport mechanics, gully erosion, reservoir sedimentation, and watershed processes

Ling Bian, Ph.D., University of North Carolina, Chapel Hill, 1991, Professor — individual-based epidemiological modeling, inter-operable environmental models, geographic image retrieval

Thomas Bittner, Ph.D., Technical University of Vienna, 1999, Associate Professor — formal ontology, qualitative spatio-temporal reasoning, theoretical foundations of GIS

Abigail Cooke, Ph.D., University of California, Los Angeles, 2014, Assistant Professor — international trade, immigration diversity, urban economies

Stuart M. Evans, Ph.D., University of Washington, 2014, Assistant Professor — atmospheric and climate science, general circulation modeling

Trina Hamilton, Ph.D., Clark University, 2006, Associate Professor — corporate social and environmental responsibility, global governance, international trade

Chris P.S. Larsen, Ph.D., McMaster University, 1994, Associate Professor — climate change, conservation biogeography, forest and landscape ecology, historical ecology, restoration ecology

Nicholas Lustig, Ph.D., University of California, Los Angeles, 2014, Assistant Professor — urban geography

D. Scott Mackay, Ph.D., University of Toronto, 1997, Professor — ecohydrology, land surface hydrology, hydrologic and ecosystem modeling, GIS, remote sensing

Sara S. Metcalf, Ph.D., University of Illinois, Urbana-Champaign, 2007, Associate Professor — dynamic modeling, urban health and sustainability

Jessie Poon, Ph.D., Ohio State University, 1993, Professor — international trade and foreign investment, regional economic development, Asian business

Chris S. Renschler, Ph.D., University of Bonn, 2000, Associate Professor — GIScience, environmental modeling, natural resources management

Peter A. Rogerson, Ph.D., State University of New York at Buffalo, 1982, SUNY Distinguished Professor — dynamic migration modeling, demographic forecasting, mathematical modeling

Monica Stephens, Ph.D., University of Arizona, 2012, Assistant Professor — volunteered geographic information, BigData, critical GIS, social media, gender and technology

Xin Tao, Ph.D., University of Maryland, 2015, Clinical Assistant Professor — remote sensing, GIScience

Le Wang, Ph.D., University of California, Berkeley, 2003, Professor — remote sensing, GIScience, forest characterization, environment modeling, land cover and land use change

Marion Werner, Ph.D., University of Minnesota, 2010, Associate Professor — labor, feminist and postcolonial theory, political economy, global production, Latin America and the Caribbean
Adam Wilson, Ph.D., University of Connecticut, 2012, Assistant Professor — ecological impacts of global environmental change, species distributions, ecosystem resilience, climate change
Eun-Hye Enki Yoo, Ph.D., University of California, Santa Barbara, 2006, Associate Professor — GIScience, geostatistics, spatial statistics, public health and environmental modeling

EMERITI FACULTY (partial listing):

Athol D. Abrahams, Ph.D., University of Sydney, 1971, UB Distinguished Professor — fluvial geomorphology
David M. Mark, Ph.D., Simon Fraser University, 1977, SUNY Distinguished Professor and Director Emeritus, National Center for Geographic Information and Analysis — geographic information systems, user interfaces, spatial cognition, digital terrain models, computer mapping
James E. McConnell, Ph.D., Ohio State University, 1969, SUNY Distinguished Teaching Professor — international business and world trade
Michael J. Woldenberg, Ph.D., Columbia University, 1968, Professor — fluvial geomorphology

NORTH CAROLINA

APPALACHIAN STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND PLANNING:
DATE FOUNDED: 1966

DEGREES OFFERED: B.A. in Geography, B.S. in Geography (Concentration in General Geography and Geographic Information Systems), Undergraduate Certificate in Geographic Information Systems, B.S. in Community and Regional Planning, M.A. in Geography (Thesis and Non-Thesis with Concentrations in General Geography, Geographic Information Systems, Planning), Graduate Certificate in Geographic Information Science, Graduate Certificate in Planning

DEGREES GRANTED 9/1/17 – 8/31/18: 38

MAJORS: Geography, Planning

CHAIR: Kathleen Schroeder

PROGRAM ADMINISTRATIVE ASSISTANT: Kathy Brown

FOR CATALOG AND FURTHER INFORMATION:

Visit www.geo.appstate.edu

PROGRAMS AND RESEARCH FACILITIES:

The undergraduate program offers B.A. and B.S. degrees in Geography and Planning. An undergraduate certificate in GIS is available. The Master's program offers an M.A. with thesis and non-thesis tracks and concentrations in general geography, Geographic Information Science and Planning. The Department occupies two floors of a science facility with accompanying laboratory space.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Appalachian State is on a semester system with opportunities for course work in the summer. Admission requirements for the undergraduate program include graduation from an accredited secondary school or equivalency certificate, and satisfactory

combination of secondary school class rank and SAT or ACT score. Financial Aid is available through federal work-study programs, various loan programs, and scholarships. High achieving undergraduate majors may be eligible for an accelerated admissions program to our graduate school. The graduate program is open to qualified students with an undergraduate degree from an accredited four year institution. Applications are welcome from a wide variety of undergraduate majors. Graduate Assistantships for teaching and research are available as are scholarships and out-of-state tuition waivers on a competitive basis.

FACULTY:

Robert N. Brown, Ph.D., Louisiana State, 2001, Associate Professor — humanistic geography, American South, New Orleans, historical geography, ethnography
Jeffery D. Colby, Ph.D. Colorado, 1995, Professor — GIS, remote sensing, watershed/environmental modeling, water resources
Richard J. Crepeau, Ph.D., California- Irvine, 1995, Associate Professor — land use, transportation policy, travel behavior, GIS
Kara E. Dempsey, Ph.D., Wisconsin-Madison, Assistant Professor — political and cultural geographer: nationalism, geopolitics, conflict reconciliation, and forced migration
Montana A. Eck, M.A., Appalachian State, 2017, Instructor — climate change in the Appalachian Mountains, atmospheric circulation, natural hazards
Derek J. Martin, Ph.D., Tennessee, 2014, Assistant Professor — river system dynamics, geospatial technologies, human impact on fluvial process
Mike W. Mayfield, Ph.D., Tennessee, 1984, Professor — geomorphology, hydrology, environmental change, physical geography
Misty L. Mayfield, M.A., Appalachian State, 2002, Academic Advisor, Instructor
Jessica J. Mitchell, Ph.D., Idaho State, 2011, Assistant Professor — terrestrial remote sensing, dryland ecology, and environmental planning
L. Baker Perry, Ph.D., North Carolina, 2006, Associate Professor — climatology, precipitation, snow and ice, climate change, tropical Andes, southern Appalachians
Kathleen Schroeder, Ph.D., Minnesota, 1995, Professor — Latin America, gender, the global south
Elizabeth D. Shay, Ph.D., North Carolina-Chapel Hill, 2007, Assistant Professor — regional planning in rural and mountain environments, transportation equity, travel behavior and built environment
Pete Soule, Ph.D., Georgia, 1989, Professor — climatology, dendroclimatology, dendroecology, climate change
Mark D. Spond, Ph.D., Tennessee, 2011, National Park Service Liaison — biogeography, environmental history, public lands
Johnathan W. Sugg, Ph.D., North Carolina-Chapel Hill, 2017, Assistant Professor — Cartography and Geovisualization, Climate Variability and Change, and Geographic Communication
Margaret M. Sugg (Kovach), Ph.D., North Carolina-Chapel Hill, 2015, Assistant Professor — Environmental Health, Geographic Information Systems, Vulnerability and Hazards to Climate Extremes
Saskia L. Van de Gevel, Ph.D., Tennessee, 2008, Associate Professor — biogeography, vegetation dynamics and disturbance regimes, forest ecology

EMERITI FACULTY:

Ole Gade, Ph.D., Michigan State, 1972
William Imperatore, Ed.D., Georgia, 1970
Neal G. Lineback, Ph.D., Tennessee, 1970
H. Daniel Stillwell, Ph. D., Michigan State, 1961
James E. Young, Ph.D., Minnesota, 1994

EAST CAROLINA UNIVERSITY

DEPARTMENT OF GEOGRAPHY, PLANNING, and ENVIRONMENT

DATE FOUNDED: 1921

GRADUATE PROGRAM FOUNDED: 1964

DEGREES OFFERED: B.A., B.S., M.S.

GRANTED 9/1/13-8/31/14: 33 Bachelors, 12 Masters

STUDENTS IN RESIDENCE: 22 BS Geography, 5 BA

Geography, 23 Atmospheric Science, 19 GIS, 41

Planning, 18 Masters

CHAIR: Thad Wasklewicz

DEPARTMENT ADMINISTRATIVE ASST: Jolene Evans

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography, Planning and Environment, East Carolina University, Brewster A-227, Greenville, NC 27858. Telephone (252) 328-6230. Fax (252) 328-6054. Undergraduate Inquiries: Dr. Tom Rickenbach (rickenbach@ecu.edu). Graduate Inquiries: Dr. Rosana Ferreira (FERREIRAR@ecu.edu). View website at <http://geography.ecu.edu>

PROGRAMS AND RESEARCH FACILITIES:

Undergraduate tracks include the B.S. in Applied Geography with concentrations in either environmental or human aspects, the B.S. in Applied Atmospheric Science and the B.S. in Geographic Information Science and Technology. Department also houses the BS in Urban and Regional Planning.

At the graduate level the Department specializes in human geography, physical geography, spatial information technologies, and atmospheric science, and supports a variety of approaches within each of these areas. Faculty expertise is clustered around the following: *Sustainability and Environmental Justice; Environmental Geography; Geomorphology; Atmospheric Science; Geographic Information Science; Rural Development; and Coastal Management*. The department maintains fully equipped research and instructional laboratories. These include a sediment lab, atmospheric science lab, hydrodynamics lab, terrain analysis lab, and three labs devoted to G.I. Science and 3D visualization.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Semester system. Admission requirements are stated in the ECU Catalog. Students may declare an intended major in geography, geographic information science and technology, applied atmospheric science, or planning upon admission. The Department offers certificate programs in G.I. Science and atmospheric science.

GRADUATE: Semester system. Admission requirements are set forth in the Graduate Bulletin. Complete transcripts of all academic work are required, as are scores from the Graduate Record Examination. The graduate program is open to students with undergraduate degrees in geography or a closely related field. Assistantships are available to qualified students, the stipend for which is normally \$5,500 per semester. A limited number of out-of-state tuition waivers are available on a competitive basis from the Graduate School. In order to be eligible for a tuition waiver, students must apply to the Graduate School by February 1st. There are consistently graduate research assistantships available and these can be found on the department website. The MS program is designed to be completed in two years, and requires either (a) 30 hours of coursework in combination with a thesis in the student's area of expertise, or (b) 36 hours of coursework in combination with an internship. Concentrations in Planning and Rural Development are also available.

FACULTY:

Beth A. Bee, Ph.D., Pennsylvania State University, 2011, Assistant Professor — feminist theory, global change, international development
Hannah M. Cooper, Ph.D., Florida Atlantic University, Assistant Professor — GIS, remote sensing, coastal flooding, sea-level rise, wetlands
W.R. Scott Curtis, Ph.D., Wisconsin, 1998, Professor — hydrologic cycle, tropical climate variability, tropical storms, remote sensing
Paul A. Gares, Ph.D., Rutgers, 1987, Professor — aeolian and coastal geomorphology, environmental management, hazards
Holly M. Hapke, Ph.D., Syracuse, 1996, Associate Professor — social theory, rural development, fisheries, field methods, South Asia
Robert Howard, M.A., East Carolina University, 2015, Research Associate — Web-based GIS, earth surface processes, and geovisualization
Misun Hur, Ph.D., Ohio State University, 2008, Assistant Professor — planning, built urban environment, GIS and visualization
Scott A. Lecce, Ph.D., Wisconsin-Madison, 1993, Professor — fluvial and glacial hydrology, water resources, metallurgic contaminants
Burrell Montz, Ph.D., Colorado, 1980, Professor and Chair — natural hazards; water resources management; environmental and resource analysis
Anuradha Mukherji, Ph.D., U.C. Berkeley, 2008, Assistant Professor — housing, disaster recovery planning, international development
Karen Mulcahy, Ph.D., CUNY, 1999, Teaching Associate Professor — analytical cartography, GIS, Web cartography, municipal applications
Rosana Nieto-Ferreira, Ph.D., Colorado State, 1994, Associate Professor — tropical climate variability and prediction
E. Jeffrey Popke, Ph.D., Kentucky, 1999, Professor — social theory, race and space, critical geopolitics, field methods, South Africa
Thomas Rickenbach, Ph.D., Colorado State, 1996, Associate Professor — tropical precipitation systems, convection and large scale circulation
Hong-Bing Su, Ph.D., U.C. Davis, 1997, Associate Professor — micrometeorology, biometeorology, remote sensing, numerical modeling
Sangwoo Sung, Ph.D., Georgia Institute of Technology, 2016, Assistant Professor — urban and environmental planning
Scott Wade, M.A., East Carolina, 1990, Instructor — GIS applications, computer cartography, ESRI-certified
Thad Wasklewicz, Ph.D., Arizona State University, 1996, Professor — 4D GIS, debris flows, alluvial fans, sUAS, Geomatics,
Yong Wang, Ph.D., Santa Barbara, 1992, Professor — remote sensing, GIS, image processing and analysis technology, wetland modeling

ADJUNCT FACULTY:

Thomas R. Allen, Ph.D., UNC Chapel Hill, 1995, Professor — GIS, RS, environmental change and ecological modeling, coastal
Mulatu Wubneh, Ph.D., Florida State University, 1976, Professor — regional planning, planning techniques, capacity building

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1936

GRADUATE PROGRAM FOUNDED: 1936

DEGREES OFFERED: B.A., M.A., Ph.D.

GRANTED (2016-2017): 41 B.A. (majors, plus 62 minors), 5 M.A., 7 Ph.D.

STUDENTS IN RESIDENCE: 84 Majors, 124 Minors, 42 M.A./Ph.D.

NOT IN RESIDENCE: 1 M.A./Ph.D.

CHAIR: Michael Emch

DEPARTMENT ADMINISTRATIVE STAFF: Barbara Taylor; Nell Phillips; Daniel Warfield

FOR FURTHER INFORMATION CONTACT: Banu Gökarişel, Director of Graduate Studies, Department of Geography, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-3220. Telephone: (919) 843-5835. Fax: (919) 962-1537. E-mail: banug@email.unc.edu Internet: <http://geography.unc.edu/>.

PROGRAMS AND RESEARCH FACILITIES: UNC is recognized as one of the nation's leading public research and teaching institutions, with extensive and state-of-the-art resources, nationally and internationally recognized academic programs, and many outstanding research institutes and international studies centers. Geography at UNC offers the B.A., M.A., and Ph.D. degrees. The graduate program is organized around and focused primarily on the Ph.D. The Department also offers a Graduate Certificate in Geographic Information Sciences.

The Department of Geography offers a wide range of graduate teaching and research opportunities, with primary focus on five clusters of faculty and student activity:

- 1) *Biophysical Geography and Earth Systems Science.* UNC-Chapel Hill geographers investigate the biophysical environment as an integrated system emphasizing the linkages and feedbacks between terrestrial, aquatic and atmospheric form and function.
- 2) *Culture, Society, and Space.* This cluster of faculty and students focuses on various aspects of political economy, social change, social theory, cultural studies, gender studies, feminism, disciplinary history, and science, technology, and society. Many students in this cluster also take the Certificate in Cultural Studies.
- 3) *Geographic Information and Analysis.* UNC-Chapel Hill geographers apply geographic information sciences as an integrated set of spatial digital technologies to investigate biophysical and social phenomena. They use and develop tools, techniques, concepts, and data sets associated with geographic information systems, remote sensing, data visualization, global positioning systems, spatial analysis, and quantitative methods.
- 4) *Globalization and International Development.* UNC-Chapel Hill geographers study the consequences of processes of globalization (and the anti-globalization and global justice movements they stimulate); international development and its effects on the geographies of international and local capital, labor, technology, information, goods and services; post-socialism, political economy, political geography and geopolitics, and political ecology.

- 5) *Nature-Society Studies and Human-Environment Interactions.* Drawing on analytical and theoretical perspectives from ecology, socio-ecological systems, political ecology, science studies, and cultural studies, UNC-Chapel Hill geographers investigate the social contexts, drivers, and consequences of environmental change and struggles over land use and resources.

The Graduate Certificate Program in Geographic Information Sciences is a non-degree program for graduates comprising coursework in geographic information systems, remote sensing, quantitative methods, spatial analysis, global positioning systems, and data visualization. It is designed for students who wish to acquire technical expertise to support topical knowledge gained in their undergraduate and graduate programs and returning students who wish to acquire specialized education and training to meet current or future job requirements calling for knowledge in GISci.

Graduate Certificate Program in Cultural Studies. The University Program in Cultural Studies is a multi-disciplinary program that includes faculty and students from many departments, including Communication Studies, History, English, Romance Languages, Geography, and Anthropology. Students may complete the graduate certificate as part of their MA or Ph.D. program, taking courses in social and cultural theory and participating in working groups currently organized around cultures of economy, politics and democracy, science and technology, memory, and social movements.

Programmatic Facilities. Students have access to a broad spectrum of university facilities and research institutes. Cooperative programs with North Carolina State University and Duke University permit the use of their combined library holdings, courses, and facilities associated with course-work and research. The Odum Institute for Social Science Research offers regular short and longer training courses and workshops. Faculty and graduate students also have access to facilities and programs in many research centers and institutes, including the Carolina Population Center, Center for Urban and Regional Studies, Center for Galapagos Studies, Institute for the Environment, and Center for Global Education with its many centers of regional and international studies.

ACADEMIC PLAN, GRADUATE ADMISSION REQUIREMENTS, AND FINANCIAL AID: We award both M.A. and Ph.D. degrees, but the major emphasis of our program is the Ph.D. Graduate application is through the Graduate School's online system where interest statements, CVs, and other documents can be uploaded: (http://gradschool.unc.edu/students_prospective.html). The deadline for receiving all application materials is January 1. The Department only admits students into the program in August. The process and necessary documents are detailed at the Department's Graduate application web page: <http://geography.unc.edu/programs/graduate>.

The Department offers merit-based research or teaching assistantships with competitive stipends, health care insurance, and a tuition waiver. Most graduate students are funded, by the Department of Geography, by affiliated units, or by faculty research grants. In addition, University fellowships are available for graduate students with superior academic records. The Department also offers students opportunities to travel and conduct research through Departmental travel funds and the University has many opportunities for research funding through its many international and area studies centers.

RESEARCH AND TEACHING FACULTY:

Xiaodong Chen, Ph.D., Michigan State, 2010, Assistant Professor — human-environment interactions, modeling and simulation, GISci, environmental policy, China

Altha J. Cravey, Ph.D., Iowa, 1993, Associate Professor — international development, social theory, gender, Latin America

Jason Davis, Ph.D., University of California, Santa Barbara, 2010, Assistant Professor — international migration, child well-being & education, population, environmental change, Latin America, statistical methods

Paul Delamater, Ph.D., Michigan State, 2012, Assistant Professor — medical, spatial analysis, GISci

Michael Emch, Ph.D., Michigan State 1998, Chair and Professor — medical, GISci, population-environment, South Asia

Banu P. Gökarıksel, Ph.D., University of Washington, 2003, Associate Professor — urban, cultural and feminist geography, social theory, contemporary Muslim societies, Middle East

Clark Gray, Ph.D., University of North Carolina Chapel Hill 2008, Associate Professor — population, environment and development; survey and statistical methods

Elizabeth Havice, Ph.D., University of California, Berkeley 2009, Associate Professor — political economy and ecology, international development, environmental politics

Christian Lentz, Ph.D., Cornell University, 2010, Assistant Professor — development, nature-society relations, agrarian studies, Southeast Asia

Jun Liang, Ph.D., University of Cincinnati, 2001, Instructor and GIS technician — spatial modeling, cartography, GISci, Remote Sensing

Scott L. Kirsch, Ph.D., Colorado, 1997, Associate Professor — historical, cultural, and political geography, science & technology studies

Charles E. Konrad, Ph.D., Georgia, 1993, Associate Professor — climatology, meteorology

Nina Martin, Ph.D., University of Illinois at Chicago, 2008, Associate Professor — urban geography, global cities, civil society, migration

Aaron Moody, Ph.D., Boston, 1994, Associate Professor — GISci/remote sensing, biogeography

Elizabeth Olson, Ph.D., Colorado, 2005, Associate Professor — Development and Inequality, Religion, Global Studies, Moral Geographies

John Pickles, Ph.D., Pennsylvania State, 1983, Earl N. Phillips Distinguished Professor of International Studies — globalization, political economy, post-socialism, social theory and geographic thought, Europe

Diego Riveros-Iregui, Ph.D., Montana State, 2008, Assistant Professor — Ecohydrology, watershed hydrology, biogeochemistry, land-atmosphere interactions, tropical hydrology, climate and land use cover change

Sara Smith, Ph.D., Arizona, 2009, Associate Professor — social, South Asia, India

Conghe Song, Ph.D., Boston, 2001, Professor — remote sensing, ecosystem modeling, land use/land cover change, GISci

Gabriela Valdivia, Ph.D., Minnesota, 2005, Associate Professor — political ecology, critical resource geography, environmental governance, Latin America

Stephen J. Walsh, Ph.D., Oregon State, 1977, Lyle V. Jones Distinguished Professor — remote sensing, GIS, physical, land use change, human-environment interaction, spatial modeling

Erika Wise, Ph.D., Arizona 2009, Associate Professor — Climatology, dendrochronology, water resources

PROFESSORS EMERITI:

Stephen S. Birdsall
Clyde Browning
John Florin
Wil Gesler
Richard Kopec
Peter Robinson
Tom Whitmore

UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

DEPARTMENT OF GEOGRAPHY AND EARTH SCIENCES

DATE FOUNDED: 1965

GRADUATE PROGRAM FOUNDED: 1973

DEGREES OFFERED: B.A., B.S., M.A., M.S., Ph.D.

DEGREES GRANTED 7/1/17 -6/30/18: 76 Bachelors, 20 Masters, 3 Doctorate

STUDENTS IN RESIDENCE: 304 Undergraduate Majors, 37 Masters, 23 Ph.D.

NOT IN RESIDENCE: 8 Masters, 3 Ph.D.

CHAIR: Craig J. Allan

DEPARTMENT ADMINISTRATIVE ASSISTANT:
 Teresa Cleveland

FOR ADMISSIONS SEE: <http://graduateschool.uncc.edu/future-students/admissions>. International students should also see: <http://graduateschool.uncc.edu/future-students/admissions/international-applicants>

FOR PROGRAM INFORMATION SEE:
<http://www.geoeath.uncc.edu>

ADDRESS OTHER CORRESPONDENCE TO: Department of Geography and Earth Sciences, University of North Carolina at Charlotte, 9201 University City Blvd., Charlotte, North Carolina 28223-0001. Telephone (704) 687-5973. Fax (704) 687-5966. Or feel free to contact: Earth Sciences Undergraduate Coordinator: William Garcia wjgarcia@uncc.edu; Geography Undergraduate Coordinator: Jamie L. Strickland jstrickl@uncc.edu; Meteorology Undergraduate Coordinator: Terry Shirley trshirle@uncc.edu; Earth Sciences M.S. Coordinator: Sara Gagné sgagne@uncc.edu; Geography M.A. Coordinator: Eric Delmelle Eric.Delmelle@uncc.edu; Geography Ph.D. Director: Heather Smith heatsmit@uncc.edu.

PROGRAMS AND RESEARCH FACILITIES:

The Department of Geography and Earth Sciences offers a Ph.D. in Geography focused on three interconnected research themes: Urban and Regional Analysis, Earth and Environmental Systems, and GIScience. Combining technology, theory and advanced methods as well as professional development in the core curriculum, the doctoral program is designed to prepare graduates for research positions in the public and private sectors, as well as academic careers. The doctoral program builds upon and complements our strong, applied Master of Arts in Geography and our Master of Science in Earth Sciences. There are four areas of specialization within the M.A. in Geography. These include concentrations in GIScience and technology, location analysis and regional analysis. We also offer a track in community planning. Students who choose the community planning track are awarded a M.A. in Geography and complete a formally structured multi-disciplinary core, which includes coursework in geography, architecture, economics, and public administration. The M.S. degree in Earth Sciences offers multiple options for interdisciplinary training and research, particularly for students interested in environmental sciences.

At the undergraduate level, the Department awards B.S. and B.A. degrees in Geography as well as a B.A. in Environmental Studies and B.S. degrees in Earth and Environmental Sciences, Geology, and Meteorology. Like the M.A. program in Geography, the baccalaureate curriculum at UNC Charlotte is focused on applied geography. Undergraduate concentrations in urban, social and economic geography; location analysis; urban and regional planning; and GIScience and Technologies attract large numbers of undergraduates.

The university-wide minor in urban studies is also centered in the Department.

Situated in a rapidly growing and internationalizing metropolitan region, UNC Charlotte offers undergraduate, Masters, and Doctoral students a variety of opportunities for engagement in research, outreach and internship programs that allow them to apply their problem-solving skills in the public, private and non-profit sectors. Ultimately, student training and experiences have led to excellent placement rates with regional and national employers as well as in various programs of advanced study. In addition to teaching and research assistantships, the department provides opportunity for competitive students to be placed with a local company or agency in a paid internship as a part of their degree program.

The McEniry building is the home of the Department. Currently, the Department occupies the entire 93,000 sq. ft. building. With greatly expanded teaching, research, and office space, major facilities include two microcomputer laboratories, a GIScience laboratory featuring 43 PC workstations and Arc GIScience, Arc/Info and ERDAS Imagine software, and modern computer cartographic facilities. The Department also houses the Center for Applied Geographic Information Science (CAGIS); this research unit offers a number of research assistantship opportunities.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: UNC Charlotte operates on the semester system. Admission requirements for undergraduate programs require graduation from an accredited secondary school, or equivalency certificate, and satisfactory combination of secondary school class rank and SAT or ACT score. Financial aid is available through the federal work-study programs, various loan programs, and several types of scholarships. Undergraduate admission information and materials are available at: www.admissions.uncc.edu.

Graduate Geography: Departmental graduate assistantships are awarded on a competitive basis to qualified students; we also strive to provide conference travel and summer support for qualified students. Doctoral assistantships carry competitive academic year stipends and can include healthcare insurance and a tuition waiver through the Graduate School. Competitive Master's assistantships are available and a limited number of out-of-state tuition fee adjustments are offered that substantially reduce non-resident students' tuition rates for Master's students. In addition to its allocation of teaching assistantships, the Department typically has a large number of research assistantships that are funded from faculty grants and contracts.

An official transcript of all previous academic work is required, plus scores from the general aptitude section of the Graduate Record Examination. An undergraduate Geography major is not required, but those students who are deficient in the basic concepts and methods of Geography will be required to take prerequisite coursework. To receive full consideration for departmental funding, applications for the fall semester should be received by February 15th. Awards are announced as soon after April 1 as possible. Applications for admission in the spring semester are accepted throughout the year. Financial aid might be available for students who enter in the spring semester as well. Prospective Geography M.A. students are encouraged to contact the M.A. program coordinator. Prospective Ph.D. students are encouraged to contact the Ph.D. program director. All prospective graduate students are encouraged to contact faculty with whom they wish to work and, if possible, to visit the Department. Application forms can be downloaded from the Graduate School's website <https://gradadmissions.uncc.edu/>.

Graduate Earth Sciences: Departmental graduate assistantships are awarded on a competitive basis to qualified students; we also strive to provide summer support for qualified students. A limited number of

out-of-state tuition fee adjustments are offered that substantially reduce non-resident Master's students' tuition rates. In addition to its allocation of teaching assistantships, the Department typically has a large number of research assistantships that are funded from faculty grants and contracts. Please see the Graduate School's website to apply: <https://gradadmissions.uncc.edu/>.

A transcript of all previous academic work is required, plus scores from the general aptitude section of the Graduate Record Examination. An undergraduate Earth Sciences or Environmental Sciences degree is preferred but not required. Students who are deficient in the basic concepts and methods in their chosen field of study will be required to take prerequisite coursework. To be considered for departmental funding, applications for admission for the fall semester should be received by February 1. Funding may also be available to students admitted for the spring semester. Prospective graduate students are encouraged to contact the Earth Sciences Graduate Coordinator and consult faculty research at <https://geoeearth.uncc.edu/people>.

FULL AND PART-TIME FACULTY:

Craig J. Allan, Ph.D., York University, 1992, Professor and Department Chair — hydrology, biogeochemistry
Jake Armour, M.S., University of New Mexico, 2002, Senior Lecturer — paleoclimatology, soils
Andy R. Bobyarchick, Ph.D., SUNY at Albany, 1983, Associate Professor — structural and tectonic geology, the Appalachians
Robert Boyer, Ph.D., University of Illinois Urbana Champaign, 2013, Assistant Professor — environmental planning and sustainability
Harrison S. Campbell, Ph.D., Illinois at Urbana-Champaign, 1994, Professor and Department Associate Chair — economic geography, regional development, regional analysis
Jacapo Canello, Ph.D., The University of Queensland, 2014, Assistant Professor — economic geography, globalization
Gang Chen, Ph.D. University of Calgary 2010, Assistant Professor — Remote Sensing, Human-environmental interactions.
Sandra Clinton, Ph.D., University of Washington 2001, Research Assistant Professor — river ecology, urban ecosystems and sustainability
Casey Davenport, Ph.D. North Carolina State University, 2011, Assistant Professor — severe weather meteorology
Elizabeth C. Delmelle, Ph.D. UNC at Charlotte, 2012, Assistant Professor — GIS, urban geography, transportation, spatial analysis and modeling
Eric Delmelle, Ph.D. SUNY at Buffalo, 2005, Associate Professor and Coordinator of the Geography Master's Program — GIS, space-time modeling, epidemiology, uncertainty
John A. Diemer, Ph.D., SUNY at Binghamton, 1985, Professor — sedimentology, stratigraphy, environmental geology
Mathew D. Eastin, Ph.D. Colorado State University 2003, Associate Professor — tropical meteorology and atmospheric observation,
M.C. Eppes, Ph.D., University of New Mexico, 2002, Professor—soils — paleoenvironments
Patricia Fall, Ph.D., University of Arizona, 1988, Professor — Biogeography, paleoecology, human impact on ancient environments
Sara Gagné, Ph.D. Carleton University, 2009, Associate Professor — Landscape Ecology
William J. Garcia, ABD, Ph.D. Candidate, University of Cincinnati, Senior Lecturer/Lab Coordinator — early amphibian evolution, Paleozoic biogeography
Laurie Garo, M.A., University of Wisconsin-Madison, 1984, Lecturer — cartography, GIS applications
William W. Graves, Ph.D., University of Georgia, 2000, Associate Professor — economic, urban, transportation
Colleen Hammelman, Ph.D. Temple University, 2016, Assistant Professor — Urban agriculture, sustainability, ecological gentrification, migration, gender

Scott P. Hippensteel, Ph.D., University of Delaware, 2000, Associate Professor and Coordinator of the Earth Sciences Master's Program — environmental geology, marine environments

Brian Magi, Ph.D. University of Washington Seattle 2006, Associate Professor — biogeophysical modeling, atmospheric sciences, global change

Céline Martin, Ph.D., Université Henri Poincaré, Nancy 1, 2009, Assistant Professor — Igneous and Metamorphic Petrology

Isabelle Nilsson Ph.D. University of Toledo, 2015, Assistant Professor — Regional development, industry/firm location behavior, transportation, policy

Valerie S. Reynolds, Ph.D., University of Tennessee Knoxville, 2005, Lecturer — Geology

Jacob (Jack) Scheff, Ph.D, University of Washington, 2014, Assistant Professor — Hydroclimate change, climate dynamics over land, atmospheric circulation

Terry Shirley, M.S., Pennsylvania State University 2004, Senior Lecture and Undergraduate Coordinator of Atmospheric Science Programs — synoptic meteorology and forecasting

Heather A. Smith, Ph.D., University of British Columbia, 2000, Professor and Director, Urban Studies Minor and Director of Geography Ph.D. Program — urban, social, global/local restructuring, immigration

Janni Sorensen, Ph.D. University of Illinois, 2007, Associate Professor — neighborhood planning, service learning, planning theory

Jamie Strickland, ABD, University of Georgia., Senior Lecturer and Coordinator of Undergraduate Geography Programs — population, aging, geography education

Wenwu Tang, Ph.D. University of Iowa 2008, Associate Professor and Director of Center for Applied GISciences — Geospatial Analysis.

Jean-Claude Thill, Ph.D., Université Catholique de Louvain, 1988, Knight Distinguished Professor of Public Policy — geographic information science and transportation, industrial, location theory

David Vinson, Ph.D., Duke University, 2011, Assistant Professor — Hydrogeology, Isotope Geochemistry

Wei-Ning Xiang, Ph.D., University of California at Berkeley, 1989, Professor — GIS, urban and regional planning

EMERITI PROFESSORS:

John F. Bender
Owen J. Furuseth,
David T. Hartgen
Gerald L. Ingalls
Sallie M. Ives
J. Dennis Lord
Walter E. Martin
Tyrrel G. Moore
Nelson Nunnally
Norman W. Schul
John Sommer
Wayne A. Walcott

UNIVERSITY OF NORTH CAROLINA AT GREENSBORO

DEPARTMENT OF GEOGRAPHY, ENVIRONMENT, AND SUSTAINABILITY

DATE FOUNDED: 1940

DEGREES OFFERED: B.A., M.A., Ph.D.

DEGREES GRANTED 9/1/16– 8/31/17 25 Bachelors, 4 Masters, 4 Doctoral

MAJORS: 68 Undergraduate Geography, 143 Environment & Sustainability, 23 Masters, 26 Doctoral

CHAIR: Corey M. Johnson

PROGRAM ADMINISTRATIVE ASSISTANT: Lois S. Carney

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Corey M. Johnson (e-mail corey_johnson@uncg.edu), Department of Geography, Environment, and Sustainability, Room 237 Graham Building, The University of North Carolina at Greensboro, Greensboro, North Carolina 27402-6170. GRADUATE DIRECTOR: Selima Sultana (e-mail: s_sultan@uncg.edu), Director of Graduate Studies, Department of Geography, Environment, and Sustainability, Room 237 Graham Building, The University of North Carolina at Greensboro, Greensboro, North Carolina 27402-6170. Telephone: (336)-334-5388, Fax (336)-334-5864. Internet: <https://geo.uncg.edu>.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography, Environment, and Sustainability houses undergraduate programs in geography, environmental studies, and sustainability studies. The major in geography has the following objectives: to promote the understanding of the locational dimensions of human behavior in their environmental context; to offer a curriculum where geographic concepts and methods are applied to understanding economic, environmental and social problems at the urban and regional scale; and to promote international understanding through area studies. The purposes of the program are to contribute an important dimension to the university student's liberal education and to provide practical training in geographic methods relevant for jobs in both the private and public sectors.

Graduating majors of the department have found careers in business and industry, urban and regional planning agencies, departments and agencies of the state and federal government, and in teaching.

Special facilities of the department include the Carolina Tree-Ring Science Laboratory, the Soil and Regolith Laboratory, two fully-equipped GIS classrooms/laboratories (each with 20+ stations) and the Remote Sensing Research Laboratory.

Students pursuing the M.A. in Applied Geography have the option of choosing from one of three areas of emphasis:

1. **Urban Planning, Transportation and Regional Economic Development.** This area includes work in urban and economic development applied to metropolitan and regional areas on a variety of scales, including issues of transportation, tourism, demographics, political boundaries, and business site selection. Departmental specialties include North America, Europe, and Asia.
2. **Earth Science and Natural Resource Management.** This area includes departmental specializations in climatology, dendroecology, hydrology, geomorphology, soils, and environmental assessment. Fieldwork opportunities are an integral extension of classwork.

- 3. Geographic Information Science.** This area comprises the techniques and research focus of cartography, geographic information systems, and remote sensing including work in statistics, computational modeling, and visualization.

The Ph.D. in Geography began in fall 2004. The PhD program centers on a research-oriented application of geographical concepts to solving real-world problems. The degree culminates in one of two projects: the traditional dissertation, or a three article option. Concentration is in one of the three areas outlined above. The program has a strong record of placing graduates in positions in the public and private sectors, as well as to university teaching and research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Application for admission for undergraduates is located at <http://admissions.uncg.edu/apply-applications.php>. You can apply online or download a PDF paper application. Applications for the Master's in Applied Geography and the Ph.D. in Geography are located at <https://grs.uncg.edu/apply-online>.

FACULTY:

Ricky L. Bunch, Ph.D., South Carolina, 2000, Professor — Geographic Information Science, spatial cognition
Keith G. Debbage, Ph.D., Georgia, 1988, Professor — Urban planning, regional development, tourism
Mary B. Hall-Brown, Ph.D., UNC Greensboro, 2012, Senior Lecturer/Physical Lab Director — GIScience, agriculture
Corey M. Johnson, Ph.D., Oregon, 2008, Associate Professor and Department Head — Political geography, borders, geopolitics
Paul A. Knapp, Ph.D., Georgia, 1989, Professor — Biogeography, climatology, dendroecology
G. Jay Lennartson, Ph.D., Wisconsin-Milwaukee, 1997, Senior Lecturer and Director of Undergraduate Studies — Environmental planning, environmental hazards, climatology and meteorology
Wenliang Li, Ph.D., Wisconsin-Milwaukee, 2016, Assistant Professor --- GIScience, remote sensing, land use and land cover change
Zhi-Jun Liu, Ph.D., Iowa, 1995, Associate Professor — Environmental geography, GIS, spatial statistics, hydrologic/ecological modeling
James A. Nelson, M.S., San Diego State, 1999, Senior Academic Professional/Lab Director — GIS, urban
Jeffrey C. Patton, Ph.D., Kansas, 1980, Professor — Cartography, GIS, physical geography
Sarah Praskiewicz, Ph.D., Oregon, 2014, Assistant Professor --- Climatology, hydrology, fluvial geomorphology
P. Daniel Royall, Ph.D., Tennessee, 1997, Associate Professor — Geomorphology, soils, water resources, quaternary environments
Roy S. Stine, Ph.D., South Carolina, 1991, Associate Professor — Remote sensing, geographic information systems
Selima Sultana, Ph.D., Georgia, 2000, Professor — Transportation, urban geography, GIS

UNIVERSITY OF NORTH CAROLINA, WILMINGTON

DEPARTMENT OF EARTH AND OCEAN SCIENCES

DEGREES OFFERED: B.A., M.S.

GRANTED 9/1/17-8/31/2018: 8 Bachelors, 12 Masters

STUDENTS IN RESIDENCE: 30 Bachelors, 45 Masters

CHAIR: Doug Gamble

DEPARTMENT ADMINISTRATIVE STAFF: Sarah

Goggin, Lorenda Heathcock, and Yvonne Marsan

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Department of Earth and Ocean Sciences, University of North Carolina Wilmington, DeLoach Hall 102, Wilmington NC 28403. Telephone (910) 962-3790. Fax (910)962-7077. Undergraduate inquiries: Dr. Scott Nooner (nooners@uncw.edu). Graduate Inquiries: Dr. Joanne Halls (hallsj@uncw.edu). View website at <http://www.uncw.edu/earsci>.

PROGRAMS AND RESEARCH FACILITIES:

Undergraduate tracks include a B.A. in Geography. The Department also houses degrees in Geology, Geoscience, and Oceanography. At the graduate level, the Department offers a M.S. in Geoscience, both thesis and non-thesis concentration options, and a Certificate in GIS. Faculty expertise is in physical geography, climatology, geomorphology, human-environment interactions, coastal and marine sciences.

The Department maintains fully equipped research and instructional laboratories. These include a sediment lab, climatology lab, hydrology lab, and access to UNCW's Center for Marine Science, a multidisciplinary space set on the Intracoastal Waterway.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Information about financial aid can be found at <https://www.uncw.edu/finaid/>

UNDERGRADUATE: Semester system. Admission requirements are stated in the UNCW Catalog. Student may declare an intended major in geography, geoscience, geology, or oceanography upon admission. The Department offers an undergraduate minor in geospatial technologies.

GRADUATE: Semester system. Admission requirements are stated in the UNCW Catalog. The program includes a thesis and non-thesis option, both of which provide a foundation for employment in the geological, geospatial and environmental fields, mineral and energy industries, and government agencies. Concentrations in geology, geospatial science, earth processes and global change. A graduate certificate is also offered in Geographic information Science. The Department offers teaching assistantships on a competitive basis. Out-of-state tuition remissions are available for those on teaching assistantships.

FACULTY:

Michael Benedetti, Ph.D., Professor of Geography — physical geography, geomorphology, quaternary science, geoarchaeology
David Blake, Ph.D., Associate Professor of Geology — petrology, structural geology, geologic mapping
Doug Gamble, Ph.D., Department Chair/Professor of Geography — applied climatology, hydrology, island environments of the Caribbean and Southeastern US
Eman Ghoneim, Ph.D., Associate Professor of Geography — physical geography, remote sensing and GIS, geomorphology, natural hazards
Joanne Halls, Ph.D., Associate Professor of Geography — geospatial science, coastal environments, spatial models and data error simulations
Peter Haproff, Ph.D., Assistant Professor of Geology — active tectonics, structural geology, stratigraphy, and field mapping
Andrea Hawkes, Ph.D., Associate Professor of Geology — paleoenvironmental reconstruction, hazards, and sea level change
Elizabeth Hines, Ph.D., Associate Professor of Geography — Southern culture, geography and race, cartography
Sharon Hoffman, Ph.D., Assistant Professor of Geology — paleoceanography, geochemistry, deep ocean circulation
Todd LaMaskin, Ph.D., Associate Professor of Geology — stratigraphy, sedimentology, and tectonic events

Chad Lane, Ph.D., Associate Professor of Geography — paleoenvironmental change, geochemistry, prehistoric human-environmental interaction

Richard Laws, Ph.D., Professor of Geology — modern coastal environments, biostratigraphy

Lynn Leonard, Ph.D., Professor of Geology — physical sedimentology, coastal environments, marine geology

Ai Ning Loh, Ph.D., Associate Professor of Oceanography — isotope and organic geochemist, water quality

Joe Long, Ph.D., Associate Professor of Oceanography — coastal hazards, observation, modelling & forecasts

Patti Mason, Lecturer — taxonomy, micropaleontology, paleoecology, biostratigraphy

Scott Nooner, Ph.D., Professor of Geology — geophysical field techniques, numerical modeling, deformation on land and marine environments

Narcisa Pricope, Ph.D., Associate Professor of Geography — geospatial science, remote sensing, land change science, human-environment modelling

Roger Shew, Lecturer — sedimentology, stratigraphy, coastal environments, subsurface methods, and science education

Michael Smith, Ph.D., Professor of Geology — petrography, geoarchaeology, geologic history

Peter Zamora, Ph.D., Assistant Professor of Geology — hydrology, groundwater-surface water interactions, geophysical and geochemical techniques

geography, and geographic education (36 semester hours each). UND also offers Bachelor of Arts and Bachelor of Science degrees in Environmental Studies (45 semester hours each) within the Geography & GISc Department. Graduate degrees awarded include the Master of Arts and Master of Science (thesis and non-thesis options). Graduate students develop a systematic interest, demonstrate knowledge of basic research tools and geographic techniques, and complete a minor or cognate in another discipline. Related disciplines across campus include education, earth system science and policy, business, finance, anthropology, Indian studies, geology, space studies, public administration, atmospheric sciences, and fisheries and wildlife biology. A graduate certificate program in Geographic Information Science is also offered.

The Geography & GISc Department houses a spatial analysis laboratory with a full range of image processing and GIS hardware and software. The department also has a physical geography wet lab. A variety of field equipment is also available for field research projects. Faculty techniques interests include GISc, remote sensing, computer-assisted cartography, field methods, and quantitative techniques. Faculty systematic areas cover biogeography, climatology, geomorphology, hydrology, economic development, geographic education, economic, historical, population, transportation, and urban, while regional specialties include Canada, Europe, North America and China.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: For the most up-to-date information about undergraduate admissions and financial aid, please see <https://und.edu/>.

Graduate: Entering graduate students must have completed an undergraduate major and hold a Bachelors degree in geography or a closely related field from a recognized institution. Applicants are evaluated on an individual basis, however, and those with limited background in geography may be accepted on a qualified basis with the understanding that deficiencies will be remedied early in their graduate program. Admission to approved status requires a minimum GPA of 3.00 in all undergraduate work, a minimum of 9 semester hours of undergraduate work in geography and 6 credits cognate to geography. Admission to the GISc certificate program requires a minimum GPA of 2.75 in all undergraduate work and is open to all students regardless of their background in geography. Financial assistance is available to graduate students in the form of graduate teaching and research assistantships, tuition waivers, or a combination of the two. Assistantships carry up to a nine-month stipend of \$15,504 with a full tuition waiver.

FACULTY:

Christopher J. Atkinson, Ph.D., Kansas, 2010, Assistant Professor — climatology, GIS, Great Plains

Mbongowo Joseph Mbuh, Ph.D., George Mason University, 2015, Lecturer — remote sensing and geospatial technologies for Earth Systems

Douglas C. Munski, Ph.D., Illinois, 1978, Professor — historical, geographic education, tourism, Canada, North Dakota

Michael A. Niedzielski, Ph.D., Ohio State, 2009, Associate Professor — transportation, urban land use, GIS

Bradley C. Rundquist, Ph.D., Kansas State, 2000, Professor — remote sensing, GIS, biogeography

Paul E. Todhunter, Ph.D., UCLA, 1986, Professor — climatology, hydrology, environmental hazards, human impacts

Gregory S. Vandeberg, Ph.D., Kansas State, 2005, Professor — water resources, GIS, glaciology, fluvial & glacial geomorphology

Enru Wang, Ph.D., Washington, 2005, Associate Professor — economic, regional development, urban, China, GIS

NORTH DAKOTA

UNIVERSITY OF NORTH DAKOTA

DEPARTMENT OF GEOGRAPHY & GEOGRAPHIC INFORMATION SCIENCE (GISc)

DATE FOUNDED: 1885 (Curriculum in Geology), 1942 (Independent)

GRADUATE PROGRAM FOUNDED: 1920

DEGREES OFFERED: B.A. and B.S. in Environmental Studies, B.S. in Geography; Undergraduate Minor in Geospatial Technologies, Geography; M.A., M.S. in Geography; Graduate Certificate in Geographic Information Science

GRANTED 7/1/16-6/30/17: 14 Bachelors, 5 Masters, 22 GISc

STUDENTS IN RESIDENCE: 18 Minors, 28 Majors, 10 Masters

NOT IN RESIDENCE: 14 GISc Graduate Certificate

CHAIR: Gregory Vandeberg

GRADUATE AND GISc CERTIFICATE DIRECTOR: Enru Wang

DEPARTMENT ADMINISTRATIVE ASST: Valerie Bensley

FOR CATALOG AND FURTHER INFORMATION

Contact: Chair, Department of Geography & GISc, University of North Dakota, 221 Centennial Drive, Stop 9020, Grand Forks, North Dakota 58202-9020. Telephone (701) 777-4246. Fax (701) 777-6195. E-mail: gregory.vandeberg@und.edu. Internet: <http://arts-sciences.und.edu/geography/>.

PROGRAMS AND RESEARCH FACILITIES:

UND awards a Bachelor of Science degree with a Major in Geography with three options: community and urban development, environmental

ADJUNCT FACULTY:

Gary Hart, Ph.D., Washington, 1985, Professor (Director, Center for Rural Health, School of Medicine, University of North Dakota) — medical geography

Philip J. Gerla, Ph.D., Arizona, 1983, Associate Professor (Geology and Geological Engineering, University of North Dakota) — hydrology

Rebecca L. Phillips, Ph.D., North Carolina, Research Plant Physiologist (Ecological Insights Corporation, Mandan, ND) — ecosystem biochemistry, remote sensing

Jeffrey A. VanLooy, Ph.D., Utah, 2007, Associate Professor (Earth Systems Science and Policy) — glaciology, water resources, fluvial geomorphology, remote sensing

EMERITUS FACULTY:

Devon A. Hansen, Ph.D., Utah, 1999, Associate Professor — population, migration, gender issues, community development, Great Plains

Mohammad Hemmami, Ph.D., Indiana University, Professor

OHIO

KENT STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1914

GRADUATE PROGRAM FOUNDED: 1935

DEGREES OFFERED: B.A., M.A., M.G.I.S., Ph.D.

GRANTED 6/1/16-5/31/17: 13 B.A., 4 M.A., 4 Ph.D.

STUDENTS IN RESIDENCE: 53 B.A. Geography, 57 B.A. Environmental Studies, 10 M.A., 28 Ph.D.

NOT IN RESIDENCE: 2 M.A., 51 M.G.I.S., 12 Ph.D.

CHAIR: Scott Sheridan

GRADUATE COORDINATOR: David Kaplan

UNDERGRADUATE COORDINATOR: Jennifer Mapes

DEPARTMENTAL SECRETARY: Mary Lou Church

GRADUATE SECRETARY: Tracee Young

FOR FURTHER INFORMATION:

See <http://www.kent.edu/geography/> or Department of Geography, 413 McGilvrey Hall, Kent State University, Kent, Ohio 44242, USA.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography at Kent State University offers BA, MA, and PhD degrees in Geography, and an interdisciplinary BA in Environmental Studies. We also offer a fully online Master of GIS, with concentrations in Cyber GIS, Environmental GIS, and GIS and Health. The department's mission is to provide an inspirational environment for the pursuit of geographic knowledge. Our faculty research seeks to promote positive social and environmental change, with a focus on interdisciplinary applications and collaboration. We work at the intersection of global and local: while our research sites span five continents, we also work locally to apply our geographic knowledge to problem-solving at the community level. We aim to prepare students for successful careers by giving them a strong theoretical base along with the ability to apply their knowledge, particularly using state-of-the art geospatial technologies. Student engagement and experiential learning are a priority: from active participation in departmental research, to community-based projects, to frequent study-away and field-based research opportunities.

Research facilities include a 1.7 million volume library, the University map collection (over 200,000 sheets), and university and statewide on-line library information and research database system. Computing

facilities in the department include three state-of-the art teaching laboratories housing over 80 computers, and several research laboratories for atmospheric research, applied geography, GIS health and hazards, and social science computation. Software currently running with site licenses includes ArcInfo, ArcGIS, ArcGIS Server, ArcSDE, ArcIENVI, ERMapper, PCI Geomatica, ERDAS, eCognition, SPSS, SAS, MapInfo, Matlab, NVivo, Surfer, Adobe Illustrator and Adobe Photoshop, among others. Additional facilities and equipment include access to a suite of supercomputers in the Ohio Supercomputer Center and a Physical Geography Laboratory.

The department is housed in McGilvrey Hall and shares the building with the Department of Geology and the University Map Library. Situated in a small, thriving city within urbanized northeast Ohio, Kent State University has ready access to a variety of research environments: large cities, small towns, agricultural regions, the Great Lakes and the Appalachian highlands and other environmentally-sensitive areas.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Kent State University operates on a semester system.

Undergraduate: KSU will accept either ACT or SAT scores. All candidates for the B.A. degree must complete the University Liberal Education Requirements, including course work in one foreign language. The geography major requires a minimum of 44 semester hours. These hours consist of 26 hours of core geography courses and at least 18 hours which may be selected from one of the following concentrations in Social Geography, Environmental Geography, and Geographical Information Sciences.

Interdisciplinary minor and certificate programs in Geographic Information Science, Urban Studies and Planning, and Climatology are offered through the Department. Internships in these programs are available. Both a Geography Club and Gamma Theta Upsilon are active.

Graduate: All applicants for admission to the graduate programs must meet the requirements of the Graduate College and satisfy the graduate faculty of the Department that they have the capability of pursuing graduate level studies. A minimum grade point average of 3.0 on a 4.0 scale or its equivalent is required for regular admission (a 3.3 undergraduate GPA and a 3.5 graduate GPA is strongly encouraged). For non-native speakers, minimum TOEFL scores of 79 or IELTS scores of 6.5 are required for admission; minimum TOEFL scores of 94 or IELTS scores of 7.0 are required for funding. Applicants are normally expected to have the equivalent of a Geography minor, 24 credit hours (for M.A. program), or M.A. in Geography (for Ph.D. program). Deficiencies may be made up after admission. A minimum of thirty (30) hours of credit are required for the M.A. degree, and thirty-two (32) for the M.G.I.S. degree. Sixty semester hours beyond the Masters degree are required for the Ph.D., with thirty of these credits assigned to the dissertation.

Financial aid is available in the form of graduate teaching assistantships, research assistantships, and university fellowships. All appointments provide a remission of most fees. Applicants are asked to apply by February 1st for fall enrollment. Submit applications on line: <http://www.kent.edu/admissions/Apply/>.

FACULTY:

Kay Amey, Ph.D., Kent State, 2011, Assistant Professor (Ashtabula Campus) — hydrology, environmental geology, hydrogeology, environmental geography

Andrew Curtis, Ph. D., Buffalo, 1995, Professor — GIS and public/clinical health, hazards, crime, GIS analysis, geospatial field techniques, research methods

Jacqueline Mills Curtis, Ph.D., Louisiana State, 2005, Associate Professor — post-disaster environments, maternal child health (MCH), geospatial techniques

Mary Ann Haley, Ph.D., Kent State, 1985, Assistant Professor and Associate Dean — economic development, industrialization, North America, Europe, Post-Soviet Eurasia

David H. Kaplan, Ph.D., Wisconsin, 1991, Professor and Graduate Coordinator — nationalism and ethnicity, French and Italian geography, urban planning, transportation, segregation

Cameron C. Lee, Ph.D., Kent State, 2014, Assistant Professor — applied climatology, synoptic climatology, climate change, climate-ocean interaction

Jay Lee, Ph.D., Western Ontario, 1989, Professor — GIS, geospatial analysis, urban operations research, geography of China, spatial and temporal simulation

Jennifer Mapes, Ph.D., Southern California, 2009, Associate Professor and Undergraduate Coordinator — small towns, sustainability, planning, community economics, visualization and interactive mapping

Mandy J. Munro-Stasiuk, Ph.D., Alberta, 1999, Professor and Associate Provost — glacial environments, remote sensing, geoarchaeology, karst environments

Rebecca P. Parylak, Ph.D., Texas State, 2009, Associate Professor — physical geography, climatology, precipitation trends

Christopher W. Post, Ph.D., Kansas, 2006, Associate Professor (Stark Campus) — cultural landscape, historical geography, North America, commemorative justice, company towns

Thomas W. Schmidlin, Ph.D., Cornell, 1984, Professor — weather and climate, natural hazards and disasters, severe weather

Andrew E. Scholl, Ph.D., Pennsylvania State University, 2008, Assistant Professor and Program Director (M.G.I.S.) — biogeography, landscape ecology, vegetation dynamics, environmental geography, GIS, remote sensing

Scott C. Sheridan, Ph.D., Delaware, 2000, Professor and Chair — climate and health, climate change, synoptic climatology, extreme temperature events

Sarah L. Smiley, Ph.D., Kansas, 2007, Associate Professor (Salem Campus) — sub-Saharan Africa, urban geography, cultural geography

James Tyner, Ph.D., Southern California, 1995, Professor — Political, population, gender and race

Emariana Widner, Ph.D., Texas State, 2009, Associate Professor — Biogeography, urban ecology, environmental geography, computational modeling

Xinyue Ye, Ph.D., California – Santa Barbara/San Diego State, 2010, Associate Professor — GIS, computational social science, open source spatial econometrics, crime analysis

MIAMI UNIVERSITY OF OHIO

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1906

GRADUATE PROGRAM FOUNDED: 1929

DEGREES OFFERED: Certificate in GIScience, A.B. in Geography, A.B. in Urban and Regional Planning, M.A.

GRANTED 8/1/17-5/31/18: 22 Bachelors, 5 Masters

STUDENTS IN RESIDENCE: 93 Geography and Urban & Regional Planning Majors, 9 Masters

CHAIR: Bruce D'Arcus

DEPARTMENT ADMINISTRATIVE ASST: Debra C. White

FOR FURTHER INFORMATION WRITE TO: *A.B. in Geography:* Mary C. Henry; *A.B. in Urban and Regional Planning:* David L. Prytherch; *Graduate:* Marcia England, Department of Geography, Miami University, Shideler Hall, Oxford, Ohio 45056.

Telephone (513) 529-5010. Fax (513) 529-1948. E-mail: geography@MiamiOH.edu. Internet: www.MiamiOH.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES:

The department offers five academic programs. Four undergraduate programs include majors and minors in both Geography and Urban and Regional Planning. The department also offers an undergraduate and graduate level Certificate in GIScience. The Master of Arts in Geography is a broadly conceived professional curriculum for students intending to pursue doctoral study or a professional career in the public or private sector. The 36-hour program consists of three parts: a common core in geographical methods and research; individualized courses reflective of student needs and departmental expertise; and a thesis or internship. Students are encouraged to take coursework in cognate disciplines. In addition, Geography faculty are participants in an interdisciplinary PhD program in Ecology, Evolution, and Environmental Biology.

The Geography Department at Miami University has comprehensive GIScience computing facilities to support instruction and research in geography. These facilities include one 26-seat state of the art GIS and remote sensing focused computer lab with ESRI, ENVI, ERDAS, and Idrisi spatial analysis software installed. The department also has an additional 26 seat instructional computer lab for teaching courses with geospatial content. The Geospatial Analysis Center (GAC) is also housed within the Geography Department. The Center is home to instruction, research, and contract work related to geospatial technologies. The University has field research facilities to support environmental research at the Ecology Research Center and other sites. An endowment provides significant support for students' research expenses.

Undergraduate majors may take coursework in Miami University's European Center in Luxembourg. The department also has ties to Universities of Ghana & Nairobi.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: *Academic Plan:* Semester System. *Admission Requirements:* High school record, ACT and/or SAT scores, and recommendation of the high school. *Financial Aid:* Contact the Office of Student Financial Aid. The Department offers four awards: an award for the Outstanding New Geography Major, The Arthur "Art" Limbird award for the Outstanding Sophomore in Geography, The Henry M. Kendall Award for the Outstanding Junior in Geography, and the Richard G. Lieberman Award for the Outstanding Senior in Geography.

Graduate: *Academic Plan:* Semester System. *Admission Requirements:* Bachelor's degree from an accredited college or university; cumulative minimum grade point average of 2.75 (of a possible 4.0); departmental approval. *Financial Aid:* Graduate assistantships: the 2017-2018 stipends are \$15,954 plus remission of 93% of the comprehensive fee and the full out-of-state tuition surcharge (if applicable) for the length of their appointment. Of this annual stipend, \$14,154 is received during the nine-month academic year and the balance of \$1,800 is for Graduate Summer Fellowships (G.A.s must apply for the latter). All G.A.s must pay the technology fee, the transit fees, Armstrong Center fees, and facilities fees (\$665 for 2017-2018). *Grants-in-aid:* Tuition.

FACULTY:

Hays Cummins, Ph.D., Texas A&M, 1984, Professor — reconstruction of past ecological communities in marine systems and understanding ecological change, particularly the impacts of global change on coral reefs

Bruce D'Arcus, Ph.D., Syracuse, 2001, Associate Professor and Chair — political and cultural geography, social theory, public space

Amelie Davis, Ph.D., Purdue University, 2009, Assistant Professor, Geography & Institute for the Environment & Sustainability — human-environment interactions, landscape sustainability science, ecosystem services, environmental land use planning, landscape ecology, GIS

Marcia England, Ph.D., Kentucky, 2006, Associate Professor — access to urban public space, urban media and marginalized populations, popular culture, geographies of the body, reproductive geographies

Bartosz Grudzinski, Ph.D., Kansas State, 2014, Assistant Professor — human-environmental interactions, watershed processes, and land use impacts on aquatic ecosystems

Mary C. Henry, Ph.D., Arizona, 2002, Associate Professor — biogeography, remote sensing, fire ecology, landscape ecology

Ziying Jiang, Ph.D., Clark University, 2010, Associate Professor, Miami University Regionals — land change science, GIS, remote sensing

John K. Maingi, Ph.D., Arizona, 1998, Associate Professor — remote sensing, GIS, and forest ecology

Jessica McCarty, Ph.D., University of Maryland, College Park, 2009, Assistant Professor — geospatial analytics, remote sensing, land-cover/land-use change, fire emissions, agriculture and food security, climate, sustainable development

Kimberly E. Medley, Ph.D., Michigan State, 1990, Professor — ecological and cultural biogeography, conservation, gender analysis, landscapes

Roxanne Ornelas, Ph.D., Minnesota, 2007, Associate Professor, Department of Geography — indigenous peoples geographies, human rights, public policy, environment, and feminist theory

David L. Prytherch, Ph.D., Arizona, 2003, Professor — urban, political, and cultural geography; urban planning & sustainability; Europe and North America

Damon Scott, Ph.D., University of Texas at Austin, 2008, Assistant Professor, Geography and American Studies — urban historical geography, gender and sexuality, urban planning history, cultural landscape change

Yelizaveta Skryzhzevska, Ph.D., Idaho, 2007, Associate Professor, Miami University Regionals — human and social geography, regional development, GIS, Eastern Europe including post-Soviet countries

Stanley W. Toops, Ph.D., Washington, 1990, Associate Professor, Geography and International Studies — East Asia, Inner Asia, development, ethnicity, tourism

Ian E.A. Yeboah, Ph.D., Calgary, 1994, Professor, Geography — globalization, urbanization, migration, development, poverty, and Sub-Saharan Africa

VISITING/ADJUNCT FACULTY:

Susan Jakubowsky, Ph.D., University of Cincinnati, 2014, Visiting Assistant Professor — civic engagement, legal geography, public space

Scott Reinemann, Ph.D., Ohio State University, 2013, Visiting Assistant Professor — physical geography, paleoclimatology, biogeography

AFFILIATED FACULTY AND STAFF:

Robbyn Abbutt, MS, University of Idaho, 1999, GIS Coordinator, GISP — natural resource management, conservation, local land use planning, water resources and food accessibility

EMERITI FACULTY:

Robert S. Bacon, Ph.D. (Psychology), Nebraska, 1955, Ph.D. (Geography), Colorado, 1975, Professor Emeritus

Jerry E. Green, Ph.D., North Carolina, 1976

John C. Klink, Ph.D., Minnesota, 1974, Professor Emeritus

Howell C. Lloyd, Ph.D., Northwestern, 1964, Professor Emeritus

William H. Renwick, Ph.D. Clark, 1979, Professor Emeritus

James M. Rubenstein, Ph.D., Johns Hopkins, 1975, Professor Emeritus

Richard V. Smith, Ph.D., Northwestern, 1957, Professor Emeritus

Joseph T. Urell, Ph.D., University of Cincinnati, 1972, Professor Emeritus

Cyrus W. Young, Ph.D., Michigan State, 1974, Professor Emeritus

THE OHIO STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1907

GRADUATE PROGRAM FOUNDED: 1907

DEGREES OFFERED: B.A., B.S., M.A., Ph.D. in Geography; B.S. in Geographic Information Science; B.S., M.S., Ph.D. in Atmospheric Sciences

DEGREES GRANTED (Summer 2017-Spring 2018): 3 M.A. in Geography, 3 M.S. in Atmospheric Sciences, 5 Ph.D. in Geography & Atmospheric Sciences

UNDERGRADUATE MAJORS: 438

CHAIR GEOGRAPHY: Morton E. O'Kelly

GRADUATE STUDIES CHAIR: Becky Mansfield

GRADUATE PROGRAM COORDINATOR: Caitlin Naber

UNDERGRADUATE ADVISOR: Nancy Coscia

DIRECTOR ATMOSPHERIC SCIENCES: Alvaro Montenegro

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Professor Becky Mansfield (Graduate Studies Chair, 614-247-7265, email: mansfield.32@osu.edu); Nancy Coscia (Undergraduate Advisor, 614-292-3553, email: coscia.4@osu.edu); Professor Alvaro Montenegro (Director, Atmospheric Sciences Program, 614-688-5451, e-mail: montenegro.8@osu.edu); Department of Geography, The Ohio State University, 1036 Derby Hall, 154 North Oval Mall, Columbus, Ohio 43210-1361, phone 614-292-2514; Fax: 614-292-6213, e-mail: geography@osu.edu; Department Website: www.geography.osu.edu; Department Facebook Page: www.facebook.com/OSUGeography; Department Twitter: @OSUGeog.

PROGRAMS AND RESEARCH FACILITIES: The programs of study at The Ohio State University focus on geography from conceptual and theoretical perspectives. The program is also strongly oriented towards the analysis of geographical problems. The department has chosen to specialize in selected areas in depth, with subfields in Urban, Regional, and Global Studies; GIS and Spatial Analysis; Atmospheric and Climatic Studies; and Environment and Society. Methodologically these include both quantitative and qualitative approaches as well as applied studies and the use of geographic information systems. Overall the program is intended to be flexible enough to provide the geographer with an appropriate background to undertake a career in academia, private industry, consulting firms, and government or research institutes. The graduate program in the Department of Geography at The Ohio State University offers training leading to Masters and PhD degrees in the following areas of specialization:

The study of Urban, Regional and Global Studies is a specialty in which The Ohio State University has excelled for many years. The Center for Urban and Regional Analysis, headed by Professor Harvey J. Miller, offers many new opportunities for faculty and graduate students to interact with each other and perform research. Research interests in this area include geographies of power, spatialities of difference, urban transportation, accessibility and mobility, dynamics of local and global economies, and critical research practices. Urban research focuses on identity politics and urban struggle, the governance of neoliberal life, geopolitics of the new immigration policy, patterns of daily spatial mobility, and gender issues in urban and transportation geography.

The primary focus of the GIS and Spatial Analysis core group is theoretical issues of GIScience and GIS applications to theoretical and substantive research questions. A common theme throughout much of the work in this area is the application of GIS-based spatial analysis and modeling. Applications of work being done include hub and spoke network analysis in air transportation, retail and interaction models, time geography, dynamics of crime, population growth, public health, social media, volunteered geographic information (VGI), as well as the role of GIS in gender research. Work is being done on new information technologies (IT) and individual access to them, on human cyberspatial cognition and behavior, as well as on network topology and accessibility of the Internet.

The Atmospheric and Climatic Studies group specializes in program on atmospheric, climatic problems of all spatial and temporal scales including involvement with observational, statistical, and modeling work. Current work includes synoptic-scale diagnostic studies of high latitude moisture budgets, large-scale modeling of climatic impacts on the Greenland and Antarctic ice sheets, and the role of ocean-atmosphere interactions in global and Arctic climate variability. Paleoclimatic work focuses on reconstruction of Earth's past climates from chemical and physical records within ice sheets and ice caps, including efforts to understand past behavior of the monsoons, sea ice, and even volcanic history and the modeling of global climate history in Earth Systems Models. Other large-scale efforts examine synoptic type climatological variability over the U.S. and the role of sunshine variability on mean temperatures. On smaller scales, focus is on prediction of peak hurricane intensities, the dynamics of melting glaciers, and climate simulation. The department houses the office of the State Climatologist and several faculty are affiliated with the Byrd Polar and Climate Research Center.

These cores are linked in the Environment and Society concentration, which integrates human and physical geography approaches to focus on human-environment interactions. Faculty investigates these links at multiple scales in varied settings. Recent research topics include human dimensions of global environmental change and its impacts; reconstruction of past environmental change; political ecology of tropical and temperate forests; environment-development issues in Latin America; and environmental health issues.

Research is supported by an excellent library system housing 3.8 million volumes, 2.3 million microforms and 200,000 sheet maps. Current serial subscriptions number 28,000 and include virtually all journals of value in geographic research. A computer-based library circulation system, accessible from student offices, provides access to catalog data and availability of materials as well as literature searches.

The department supports laboratories for work in cartography, GIS, weather analysis, and spatial analysis. The atmospheric sciences laboratory maintains one of the most popular computer weather servers in the country, available at <http://twister.sbs.ohio-state.edu>, providing national and local forecasts, satellite and Doppler radar imagery, and other products. A large number of meteorological instruments and recording devices are available for boundary layer climate studies. Computer facilities include the State of Ohio Supercomputer Center's Cray S, an IBM mainframe, various departmental PCS and workstations, and the Center for Mapping. The Center for Urban and Regional Analysis (CURA) is housed within the Geography Department. CURA serves as a catalyst for interdisciplinary research on urban and regional topics, as a resource for data and analysis, and as a link for outreach to the Columbus community.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Undergraduate students who major in geography, atmospheric sciences, geographic information science, or air transportation enroll in the College of Arts and Sciences and earn a Bachelor of Arts or Science degree. Admission application forms,

college bulletins, and financial aid information are available at: <http://undergrad.osu.edu/>. The Undergraduate Admissions and First Year Experience offices are located in the Student Academic Services Building, 281 W. Lane Ave, Columbus, Ohio 43210, (614) 292-3980.

High school students should apply for admission as soon as possible after August 1st of their senior year. November 1st is the deadline for early action and priority consideration for merit scholarships and Honors and Scholars Programs. The Department of Geography offers five majors: BA Geography with specializations in Environment & Society and Urban, Regional, & Global Studies; BS Geography with specializations in Climatic Studies, Physical Geography, and Spatial Analysis; BS Atmospheric Sciences; BS Geographic Information Science; and BA Social Sciences Air Transportation. The courses within each major comprise the minimum 30 credit hours required for any major program, and students must earn at least a C- in each course. In addition to completing the major program, students must complete the General Education Curriculum of the Colleges of the Arts and Sciences. A minimum cumulative point-hour ratio of 2.0 in all courses and within major courses is required for graduation.

Graduate: Research skills are assessed in the Master's program by means of a thesis or research paper. Coursework includes a small group of core courses emphasizing theoretical understanding and quantitative skills. The doctoral program is designed intentionally to permit advanced graduate students the flexibility to pursue their specialized interests. Work in related disciplines is encouraged and PhD minor topics in other departments are possible in certain cases. Admission Requirements: Minimal grade point average of 3.0 (A=4.0) or equivalent for all applicants. All applicants must take the Graduate Record Examination. While there is no required score for admission, competitive applicants will score in the 75th percentile or above on the combined verbal and quantitative sections, and a 3.5 or above on the analytical writing. Foreign applicants must also take the TOEFL and achieve a score above 88 for admission. Financial Aid: Teaching and research associateships are available. Nine month stipends are competitive across peer institutions and include tuition waivers for both resident and non-resident students. Summer teaching and research support is available for qualified students. Additional sources of funding include University Fellowships. Applicants wishing to be awarded a University Fellowship should submit their application by December 13th (international student deadline is November 30th).

ATMOSPHERIC SCIENCES PROGRAM: The Atmospheric Sciences Program (ASP) is designed to provide students with a basic foundation in the physical principles, theory, methodological skills, and applications central to the disciplines of meteorology and climatology. For details on the graduate and undergraduate programs see <http://asp.osu.edu>.

FACULTY:

Ola Ahlqvist, Ph.D., Stockholm University, 2001, Professor — geo-visualization, semantics, uncertainty, spatial analysis, social media, map games
David Bromwich, Ph.D., Wisconsin, 1979, Research Professor — polar meteorology and climatology, numerical modeling
Mathew Coleman, Ph.D., UCLA, 2005, Associate Professor — political geography
Stavros Constantinou, Ph.D., Kent State, 1982, Associate Professor (OSU, Mansfield Campus, Ohio)
Madhumita Dutta, Ph.D., University of Durham, U.K., 2016, Assistant Professor — labor geography, gender, development, South Asia.
Nancy Ettlinger, Ph.D., Oklahoma, 1984, Professor — poststructural theory and critical epistemology; governmentality, neoliberalism, culture and economy, critical data studies, urban-social
Jay Hobgood, Ph.D., Ohio State, 1984, Associate Professor — dynamics, tropical cyclones, climatology
Jialin Lin, Ph.D., SUNY-Stony Brook, 2001, Associate Professor — global climate change, climate modeling and climate dynamics

Desheng Liu, Ph.D., UC-Berkeley, 2006, Associate Professor — remote sensing, GIS, spatial statistics, land use and land cover change

Zhengyu Liu, Ph.D., MIT 1991, Professor — climate dynamics, earth system modeling, paleoclimate

Kenneth Madsen, Ph.D., Arizona State, 2005, Associate Professor (OSU, Newark Campus, Ohio)

Becky K. Mansfield, Ph.D., Oregon, 2001, Professor — nature-society relations, political ecology, science studies, health and environment

Bryan Mark, Ph.D., Syracuse, 2001, Professor — climatology, quaternary environmental reconstruction, tropical glaciers, hydrology, water resources, and geo-spatial modeling

Kendra McSweeney, Ph.D., McGill, 2000, Professor — cultural and political ecology, rural livelihoods, demography, conservation and economic development

Harvey Miller, Ph.D., Ohio State, 1991, Professor and Bob & Mary Reusche Chair in GIScience, Director of CURA — GIScience, spatial analysis, human mobility and accessibility, sustainable transportation, community livability, public health

Alvaro Montenegro, Ph.D., Florida State, 2003, Assistant Professor — climate change, paleoclimatology, climate modeling, past environmental-human interactions

Ellen Mosley-Thompson, Ph.D., Ohio State, 1979, Distinguished University Professor — climatology, glaciology, ice core paleoclimatology, tropical glacier retreat, polar processes

Darla Munroe, Ph.D., University of Illinois, 2000, Professor — economic, land use change

Morton O'Kelly, Ph.D., McMaster, 1981, Professor and Chair — locational analysis, quantitative analysis, transportation

Elisabeth Root, Ph.D., University of North Carolina, 2009, Associate Professor — medical geography, spatial epidemiology, quantitative methods

Gregory S. Rose, Ph.D., Michigan State, 1981, Associate Professor and Dean (OSU Campus, Marion, Ohio)

W. Randy Smith, Ph.D., York, 1978, Associate Professor and Vice Provost — urban, regional urban systems, urban historical

Daniel Sui, Ph.D., University of Georgia, 1993, Distinguished Professor of Social & Behavioral Sciences and Chair — GIScience, urban geography, geographic thought, social media, public health

Steven Quiring, Ph.D., University of Delaware, 2005, Professor — climatology, hydroclimatology, synoptic climatology, climate data analytics

Joel Wainwright, Ph.D., Minnesota, 2003, Professor — development, social theory, political ecology

Max Woodworth, Ph.D., UC-Berkeley, 2013, Assistant Professor — urban China, Taiwan, neoliberalism

Ningchuan Xiao, Ph.D., Iowa, 2003, Professor — GIScience, spatial analysis, geovisualization and cartography, spatial decision support systems

EMERITUS FACULTY:

William V. Ackerman, Professor Emeritus

A. John Arnfield, Professor Emeritus

Victor Colombini, Associate Professor Emeritus

Kevin R. Cox, Professor Emeritus

Howard L. Gauthier, Professor Emeritus

Vera Herman, Professor Emeritus

Robert D. Klingensmith, Professor Emeritus

Edward J. Malecki, Professor Emeritus

Duane F. Marble, Professor Emeritus

Yuri Medvedkov, Professor Emeritus

Harold Moellering, Professor Emeritus

Joel L. Morrison, Professor Emeritus

John N. Rayner, Professor Emeritus

Jeffrey C. Rogers, Professor Emeritus

OHIO UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1969

DEGREES OFFERED: B.A., B.S., M.A., M.S.

GRANTED 7/1/16-6/30/17: 47 Bachelors, 9 Masters

STUDENTS IN RESIDENCE (Fall 2017): 192 Majors, 17 Masters

CHAIR: Dorothy Sack

ADMINISTRATIVE SPECIALIST: Patti Malloy

FOR FURTHER INFORMATION CONTACT: Chair, Undergraduate Committee; or Chair, Graduate Committee, Department of Geography, Ohio University, 122 Clipping Labs, Athens, Ohio 45701-2979. Telephone: 740-593-1140. Fax: 740-593-1139. E-mail: sack@ohio.edu. Internet: www.ohio.edu/geography (includes contact information for current Undergraduate and Graduate Committee Chairs)

PROGRAMS AND RESEARCH FACILITIES:

Undergraduate Program: Ohio University offers both the B.A. and B.S. degrees. Undergraduate students can major in Geography or choose to follow one of several structured programs for a more specialized degree. These major tracks include Environmental Geography, Meteorology, Geographic Information Science (GISc), Environmental Pre-Law, Urban Planning and Sustainability, and Globalization and Development. The department also offers various minors as well as an undergraduate certificate in GISc. Undergraduate students participate in research in the senior capstone class and may also do so through various faculty-supervised, independent research experiences. The department encourages students to complete internships, and geography faculty typically offer some study away opportunities in summer. Details about the major tracks, certificates, internships, and study away courses can be found on the department's web page.

Graduate Program: The department grants M.A. and M.S. degrees, a certificate in GISc for on-campus students in a graduate degree program, and a stand-alone online graduate certificate in Geospatial Information Science: GIS and Cartography (www.ohio.edu/cas/geography/grad/online/gis-cartography.cfm). Both the M.A. and M.S. degrees require a thesis. Faculty strengths lie in the areas of earth's physical systems (biogeography, geomorphology, meteorology, and climatology); environmental sustainability and planning; environmental and social justice; urban and economic geography; globalization and development; feminist/gender and social geographies; cultural and historical geography; and earth observation and GISc (GIS, cartography, remote sensing). The department maintains strong ties with the Environmental Studies, International Studies (Latin America, Asia, Africa), and Women's, Gender, and Sexuality Studies programs. Graduate Catalog information and online application forms can be accessed at www.ohio.edu/graduate/.

Facilities: The university lies along the Hocking River in beautiful southeastern Ohio. Departmental facilities include well-equipped teaching and research laboratories for GIS, cartography, remote sensing, biogeography, geomorphology, and environmental research, and the Scalia Laboratory for Atmospheric Analysis, which includes a regional forecasting center. Ohio University's Alden Library and the comprehensive Ohio Library and Information Network (OhioLINK) provide students with easy access to an extensive number of journals in geography and allied fields, as well as to an extensive array of books, maps, images, and government documents.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Ohio University is on the semester system.

Undergraduate: University undergraduate admission requirements and financial aid opportunities are listed on the Ohio University web

page (www.ohio.edu). Undergraduate geography students can apply to begin in any term.

Graduate Admission: Fall semester is the standard term of entry for geography master's students. To be considered for admission to the Geography master's program, students must have completed by the start of their entry term a baccalaureate degree in geography or a related field with a minimum grade point average of 3.0 (4.0 scale). The online application form must include Graduate Record Examination scores, three letters of recommendation, a resume or curriculum vitae, and a personal statement describing the student's interest in geography and in our program. International applicants should consult the Graduate College webpage for additional information on required documents and English language proficiency.

Graduate Financial Aid: The department has a number of teaching and research assistantships that are awarded on the basis of individual merit. These provide full remission of tuition and a regionally competitive stipend of approximately \$13,100 for the nine-month academic year. One graduate appointment is as Associate Director of the Scalia Laboratory for Atmospheric Analysis. The department also awards one or more Graduate Recruitment Scholarships that cover tuition only. Assistantships are typically granted for a second year upon successful completion of the first year of study. To be given full consideration for financial aid decisions, applications should be completed and submitted by February 15.

FACULTY:

- Timothy G. Anderson, Ph.D., Texas A&M, 1994, Associate Professor* — cultural, historical, world systems, ethnicity
- Geoffrey L. Buckley, Ph.D., Maryland, 1997, Professor* — environmental, historical, mining landscapes, urban environments
- James M. Dyer, Ph.D., Georgia, 1992, Professor* — biogeography, landscape ecology, forest dynamics
- Ryan Fogt, Ph.D., Ohio State, 2007, Associate Professor and Director of Scalia Laboratory for Atmospheric Analysis* — polar meteorology and climatology, climate variability and change, stratosphere-troposphere interactions
- Jana Houser, Ph.D., Oklahoma, 2013, Assistant Professor* — observations of formation and evolution of tornadoes, supercell thunderstorms, radar studies, severe weather climatology, mesoscale meteorology
- Brad D. Jokisch, Ph.D., Clark, 1998, Associate Professor* — cultural/political ecology, agriculture, population, migration, Latin America
- Yeong-Hyun Kim, Ph.D., Syracuse, 1998, Associate Professor* — globalization, economic geography, urban geography, Asia
- James K. Lein, Ph.D., Kent State, 1986, Professor* — environmental assessment, land resource analysis, applied physical, remote sensing, GIS
- Amy Lynch, Ph.D., Pennsylvania, 2013, Assistant Professor* — land use and environmental planning, green infrastructure, sustainable community strategies and indicators
- M. Duane Nellis, Ph.D., Oregon State, 1980, Professor and Ohio University President* — remote sensing, natural resources, and earth systems science
- Harold Perkins, Ph.D., Wisconsin-Milwaukee, 2006, Associate Professor* — political ecology/economy of urban environments including neoliberalization, the state, governance, voluntarism, and the agency of nonhuman organisms
- Dorothy Sack, Ph.D., Utah, 1988, Professor and Chair* — geomorphology, paleolakes, arid lands, human impacts, history of geomorphology
- Gaurav Sinha, Ph.D., University at Buffalo-SUNY, 2007, Associate Professor* — geospatial ontology, environmental data modeling, landscape analysis, PPGIS
- Thomas A. Smucker, Ph.D., Michigan State, 2003, Associate Professor* — environment and development, land tenure systems, rural livelihood and coping strategies, African drylands

Edna Wangui, Ph.D., Michigan State, 2004, Associate Professor — gender, rural livelihoods and landscape change in East Africa

Risa Whitson, Ph.D., Pennsylvania State, 2004, Associate Professor (*one-third time in Women's, Gender, and Sexuality Studies*) — gender and development, social geographies, informal sector, Argentina

AFFILIATED FACULTY:

Ana Mojica Myers, M.A., Ohio, 2009, Visiting Instructor — cartography and GIS

Michael Hollingsworth, J.D., William & Mary, Visiting Assistant Professor — environmental law

OHIO WESLEYAN UNIVERSITY

DEPARTMENT OF GEOLOGY AND GEOGRAPHY

DATE FOUNDED: 1951

DEGREES OFFERED: B.A. in Geography, Geology, Environmental Studies, Environmental Science, and Urban Studies

GRANTED 9/1/10-8/30/17: 45 Geography, 25 Geology, 70 Environmental Studies

MAJORS: 16 Geography, 6 Geology, 35 Environmental Studies & Environmental Science

CHAIR: Barton Martin

DEPARTMENT ADMINISTRATIVE ASST: Kathy Boger

FOR FURTHER INFORMATION CONTACT:

Dr. John Krygier, Professor of Geography, Ohio Wesleyan University, Delaware, Ohio 43015.

E-mail: jbkrygier@owu.edu. Internet: geography.owu.edu.

PROGRAMS AND RESEARCH FACILITIES:

Ohio Wesleyan University was founded in 1842 and geology courses were taught beginning in 1851. The geography program was created in 1951. Ohio Wesleyan University is a selective, coeducational liberal arts college of about 1600 students equally divided between men and women from the United States and 50 foreign countries. The geography program focuses on the inter-relationships between human societies and the natural environment and on the development and alteration of cultural landscapes. Specific research themes of the geographers include: human and cultural geography with an emphasis on globalism and the global south; mapping, GIS, cartography and remote sensing; climate, weather, and climate change; urban geography and urban studies; environmental geography; and environmental studies. The interdisciplinary Environmental Studies, Environmental Science, and Urban Studies programs are directed through the Geography program. We have access to excellent paper and online resources through our Beeghly Library, The Ohio Five Consortium (OWU, Oberlin, Kenyon, Wooster and Denison) and OhioLink. The department has its own small research library, and a GIS computer lab for the exclusive use of majors. Many geography students study off-campus for a semester and engage in theory-into-practice and summer science research projects. The department stresses field work and independent research projects. A hallmark of Ohio Wesleyan's educational mission is its emphasis on involving students directly with ongoing faculty research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Semester System. The college provides generous amounts of financial aid to academically qualified students; approximately 85 percent of the student body receives financial aid. Information regarding admissions requirements and financial aid may be obtained by contacting the Admissions Office, Ohio Wesleyan University, Delaware, Ohio 43015 (toll free 1-800-922-8953; E-mail: www.owu.edu/).

FACULTY:

Nathan Amador, Ph.D., Penn. State, 2014, Assistant Professor of Geography — climate, weather, glaciers, remote sensing

Karen H. Fryer., Ph.D., Illinois, 1986, Professor of Geology (emerita) — physical geology, structural geology, petrography, tectonics, field techniques

Richard Fusch, Ph.D., Oregon, 1972, Professor of Geography (emeritus) — cultural, urban geography/urban design, economic, changing Third World and contemporary American cultural landscapes

David H. Hickcox, Ph.D., Oregon, 1978, Professor of Geography (emeritus) — physical geography, weather/climate, human impacts on natural environments, resource management

John Krygier, Ph.D., Penn. State, 1995, Professor of Geography, Director of Environmental Studies — GIS/cartography/visualization, public participation GIS, map design & GIS, environmental geography, sustainability

Keith Mann, Ph.D., Iowa, 1987, Professor of Geology — historical geology, paleontology, hydrology, sedimentology/stratigraphy

Barton S. Martin, Ph.D. Massachusetts, 1991, Professor of Geology — physical geology, vulcanology, mineralogy, petrology, economic geology

Jennifer Mokos, Ph.D., Vanderbilt, 2017, Visiting Assistant Professor of Geography — urban geography, economic geography, political ecology, social justice

OWENS COMMUNITY COLLEGE

DEPARTMENT OF SOCIAL & BEHAVIORAL SCIENCES**DATE FOUNDED:** 2008**DEGREES OFFERED:** A.A. with Concentration in Geography**CHAIR:** Ramona Olvera**PROGRAM ADMINISTRATIVE ASST:** Carol Cervenec**FOR CATALOG AND FURTHER INFORMATION WRITE**

TO: Department of Social & Behavioral Sciences, Founders Hall, Owens Community College, P.O. Box 10,000, Toledo, Ohio 43699-1947. Telephone (567) 661-7521.

E-mail: carol_cervenec@owens.edu. Internet: <http://www.owens.edu>.

PROGRAMS AND RESEARCH FACILITIES: Owens Community College offers an A.A. degree with a concentration in Geography. The Social & Behavioral Sciences Department offers on-campus and online courses in Human Geography, Geography of the US & Canada, Physical Geography, and World Regional Geography. All of these courses are TAG and OTM approved by the Ohio Board of Regents.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Completion of the Geography Concentration at Owens Community College requires the successful completion of four Geography courses along with the other requirements of the A.A. General degree. Owens Community College is an open-enrollment public community college. For admission and financial aid information visit: <http://www.owens.edu>

FACULTY:

L. Scott Deaner, M.A., Ohio University, 2004, Associate Professor — cultural geography, sports geography, coal mining landscapes, Appalachia, Midwestern US

SINCLAIR COMMUNITY COLLEGE

DEPARTMENT OF SOCIOLOGY, GEOGRAPHY, AND SOCIAL WORK**DATE FOUNDED:** circa 1971**DEGREES AND CERTIFICATES OFFERED:** GIS

Certificate, Aerial Sensing Data Analyst Certificate, Associate Degree in Geography, Applied Associate Degree in Geospatial Technology.

CHAIR: Dona Fletcher**DEPARTMENT ADMINISTRATIVE ASSISTANT:** Lynn Amann

FOR FURTHER INFORMATION CONTACT: Department of Sociology, Geography, and Social Work, 444 West Third Street, Dayton, OH 45402-1460. Telephone (937) 937 512-2944 E-mail: lynn.amann@sinclair.edu

PROGRAMS AND RESEARCH FACILITIES: Sinclair offers introductory human, regional, physical geography courses as well as geography of the Middle East. Our offerings in GIS include introduction to GIS, cartography, advanced spatial analysis, spatial data acquisition and management, and remote sensing. The Geospatial and Social Research Center includes a classroom with 20 computers and a separate lab with 15 computers. Students and faculty in GIS have opportunities to connect with local industry and government through collaborations with community partners, service learning projects, internships, field trips, and one-on-one mentoring.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Sinclair's strong belief in access and affordability is reflected in the fact that its Montgomery County students pay the lowest tuition rates in the state of Ohio. Sinclair uses a semester system. Students may enroll full or part time and courses are available on the main Dayton campus, Courseview Campus Center (Mason, OH), Englewood Learning Center, Huber Heights Learning Center, Preble county Learning Center, and Wright-Patterson Air Force Base Center as well as SinclairOnline. Any person 18 years or older can apply to Sinclair Community College for admission. Post Secondary Enrollment Options are also available. Further information is available at <http://www.sinclair.edu/admissions/>.

GEOGRAPHY FACULTY:

Jacqueline Housel, Ph.D. State University of New York at Buffalo, 2007, Professor of Geography and GIS — GIS, urban geography, immigration, race and ethnicity

Mohsen Khani, MA, University of Western Michigan, 1992, Professor of Geography — political and physical geography

ADJUNCT FACULTY:

Adanma Ariyo, MA, Miami University

Tom Harner, GIS Coordinator at Miami Valley Regional Planning Commission

Lance Lemonges, PhD, University of Florida

Amos Park, Geospatial Technician, Woolpert, Inc.

THE UNIVERSITY OF TOLEDO

DEPARTMENT OF GEOGRAPHY AND PLANNING

DATE FOUNDED: 1963

MASTER OF ARTS PROGRAM FOUNDED: 1970

PhD PROGRAM FOUNDED: 2009

DEGREES OFFERED: B.A., M.A., Ph.D.

GRANTED 2017-2018: 4 Bachelors, 5 Masters, 1 Ph.D.

STUDENTS IN RESIDENCE: 15 Majors, 18 Masters, 16 Ph.D.

NOT IN RESIDENCE: 6 Masters, 2 Ph.D.

CHAIR: Daniel J. Hammel

ASSISTANT TO THE DEPARTMENT CHAIR: Tammy Golkiewicz

FOR FURTHER INFORMATION WRITE TO: Daniel J. Hammel, Chair Department of Geography and Planning MS 140, The University of Toledo, 2801 W. Bancroft St., Toledo, Ohio 43606-3390. Telephone (419) 530-4128 or (419) 530-2545 Fax (419) 530-7919 (c/o Department of Geography and Planning).
E-mail: Dan.hammel@utoledo.edu
Internet: www.utoledo.edu/al/geography/

PROGRAMS AND RESEARCH FACILITIES: The department's undergraduate and graduate curricula are designed to provide theoretical and technical skills necessary for future academic and nonacademic careers. A wide selection of courses and seminars allows students to create individualized programs within the range of faculty interests, offered curriculum, and contemporary geographical issues and problems.

Undergraduate and graduate students choose an area of specialization from the following list: Geographic Information Science and Remote Sensing, Urban and Economic Geography, Community and Urban Planning, Environmental Geography and Planning, and Cultural and Behavioral Geography. Students choose from courses and seminars offered in other campus programs to supplement their instruction and broaden their perspective. In addition, each graduate experience is further enhanced by our graduate internship program featuring paid internships in local/regional agencies and firms.

Offerings by the department are accentuated by a state-of-the-art Center for Geographic Information Science and Applied Geographics (GISAG), a spatial analysis teaching laboratory, a remote sensing laboratory, and the Lake Erie Center for Research and Education. Students have convenient access to campus, local and regional reference and research libraries, media centers, and computer clusters.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate Program: Semester system with a three-session summer semester. A college preparatory high-school program is required with possible admission based on completion of noncredit makeup courses. Scholarships and financial aid are available, especially for state residents.

M.A. Program: The program is on the semester system. All students must complete a minimum of 36 hours of approved study. Students can choose from a thesis option, which also requires a comprehensive exam, or a non-thesis option, which requires a general exam and a supervised research paper completed in the context of a capstone course. For most students, two academic years are needed to complete the program. Applicants should hold a bachelor's degree in geography or a related field. Others are admitted who are willing to take additional appropriate work. Usually a student will present a GPA of at least 2.7 (4.0 scale). International students must score satisfactorily on the Graduate Record Examination. Graduate teaching and research

assistantships, University and other fellowships, and remunerative graduate planning internships are available to most qualified applicants, as are tuition scholarships.

Ph.D. Program: Spatially Integrated Social Science—A program designed around the application of GI Science, spatial statistics, spatial econometrics and spatial analysis to study the spatial dimension of human and social dynamics, including interaction of individuals and society, government and market participants. Applicants should hold a master's degree in a social science discipline with a minimum of one course in multivariate statistics and two courses in geographic information systems. The Graduate Record Examination is required for admission. All students must complete 36 hours of approved study and 24 dissertation hours. Graduate teaching and research assistantships, University and other fellowships are available to most qualified applicants, as are tuition scholarships.

FACULTY:

Bhuiyan M. Alam, Ph.D., 2005, Florida State University, Associate Professor — Urban and Regional Planning
Frank J. Calzonetti, Ph.D., University of Oklahoma, Professor/Vice President for Research — GIS, Economic development
Kevin P. Czajkowski, Ph.D., 1995, University of Michigan, Professor — Climatology, Remote Sensing, Hydrology
Sharon L. Gaber, Ph.D., Cornell University, Professor, University President — Urban and Regional Planning
Daniel J. Hammel, Ph.D., 1994, University of Minnesota, Professor and Chair — Urban geography, Housing and Neighborhood change
Patrick L. Lawrence, Ph.D., 1996, University of Waterloo, Professor — Environmental and ecosystem planning, Environmental applications in remote sensing, Coastal and shoreline management land use/growth management, Natural resource planning
Neusa Hidalgo-Monroy McWilliams, Ph.D., 1996, University of California, Berkeley, Associate Lecturer — Latin America
David J. Nemeth, Ph.D., 1984, University of California, Los Angeles, Professor — Cultural, Asia, Architecture and Ideology, Informal Economies
Neil Reid, Ph.D., 1991, Arizona State University, Professor — Industrial Geography, Economic Geography, Economic Development
M. Beth Schlemper, Ph.D., 2000, University of Wisconsin-Madison, Associate Professor — Cultural and Historical, Human geography, Geographic education
Sujata Shetty, Ph.D., 2002, University of Michigan, Professor — Urban Planning
Yanqing Xu, Ph.D., 2014, Louisiana State University, Assistant Professor — GIS, Medical/Health Geography

EMERITI FACULTY:

Frank E. Horton, Ph.D., Northwestern, 1966, President Emeritus, Professor Emeritus — Transportation, urban geography
Peter S. Lindquist, Ph.D., 1988, University of Wisconsin-Milwaukee, Professor Emeritus — GIS, Digital cartography, Location theory, Transportation
William A. Muraco, Ph.D., Ohio State, 1971, Research Professor and Professor Emeritus — Economic (especially location theory), urban, quantitative research methods

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1940

GRADUATE PROGRAM FOUNDED: 1947

DEGREES OFFERED: B.A., B.S., M.S., Ph.D.

(Geography), B.S. (Geospatial Information Science),
B.A. (Global Studies)

CERTIFICATES OFFERED: Certificate in Geographic
Information Systems (GIS); Certificate in Environmental
Studies

GRANTED AY 2017-2018: 12 Bachelors, 3 Masters, 6 Ph.D.

STUDENTS IN RESIDENCE: 39 Majors, 11 Masters, 22
Ph.D.

HEAD: Alyson L. Greiner

DEPARTMENT ADMINISTRATIVE ASST: Sharon
Elliott

FOR FURTHER INFORMATION: E-mail: geog@okstate.edu,
Internet: www.geog.okstate.edu, or Department of Geography, 337
Murray Hall, Oklahoma State University, Stillwater, Oklahoma
74078-4073. Telephone (405) 744-6250. Fax (405) 744-5620.

PROGRAMS AND RESEARCH FACILITIES: The Department offers several flexible programs of study that provide students with the skillsets and knowledge to understand events and processes in a globalizing world, and to pursue careers in government, business, industry, or academia. The curriculum is built around four tracks: (1) Outdoor Recreation and Resource Management; (2) People, Place, Society; (3) Global Studies; and (4) Environmental Change and Sustainability. Internship opportunities are available in both the private and public sectors. The Department promotes interdisciplinary instruction and research, and sponsors students in the university's interdisciplinary Environmental Science M.S. and Ph.D. programs. Students can earn a post-baccalaureate Certificate in Geographic Information Systems concurrently with their graduate or undergraduate degree in geography. Areas of research and specialization include: nature-society dynamics, cultural-historical geography, and geographic information science including unmanned aerial systems. Research and travel experience give faculty strength in several geographic regions, especially Central Asia, Australia, Latin America, and the Middle East. Department faculty work collaboratively with faculty from other colleges and centers across campus, including the Unmanned Systems Research Institute and the School of Global Studies and Partnerships. The Department also houses the *Journal of Central Asian Studies*.

Located in a remodeled historic building at the south entrance to campus, the Department provides space for faculty and graduate offices, two GIS training facilities, a physical geography laboratory, the Keso Seminar Room, and a palynology/paleoecology research laboratory. The Department houses and manages two centers: OSU Cartography Services, a full-service production cartography facility, and the Center for Applications of Remote Sensing, which provides expertise for remote sensing training and research. The University Library has substantial geography and periodic holdings as well as map, aerial photography and documents collections, and the department's Drummond Map Library holds additional special collections. Students and faculty also have access to surface weather data reported by automated stations of the Oklahoma Mesonet work in a near-real-time GIS environment. The Department's computer

facilities are equipped with state-of-the-art hardware and software, and UAV/UAS equipment.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Students may earn a B.A. or B.S. degree in Geography, B.S. in Geospatial Information Science, or a B.A. in Global Studies. Students interested in law school or ministerial work can now choose degree options in those areas, including the B.A. in Geography Pre-Law Option; the B.A. in Geography Pre-Ministry Option, the B.A. in Global Studies Pre-Law Option, and the B.A. in Global Studies Pre-Ministry Option. Students can also elect to earn a Certificate in Environmental Studies or a Certificate in GIS. All majors are required to take a senior capstone course. Students must earn a 2.5 GPA (4.0 basis) in their selected major in order to graduate. Various scholarships, travel grants, internships, and work-study assistance programs are available. The Department has scholarships for an outstanding junior, an undergraduate travel scholarship, as well as several scholarship awards for graduate students. The Department also promotes and supports undergraduate research through its Geography Undergraduate Mentors Program.

Graduate: The Department offers the M.S. and Ph.D. degrees in geography. The M.S. degree usually requires two academic years (four semesters). The thesis option requires 30 semester hours of coursework, including the thesis, while the non-thesis alternative requires 36 hours and completion of a creative component project. The Ph.D. degree requires a minimum of 60 credit hours. Applicants to the Ph.D. program must have earned a master's degree. Admission requirements for graduate study include submission of academic transcripts, GRE scores, TOEFL scores (if English is not the primary language), a résumé or CV, a personal statement about research interests and career objectives, a writing sample, and letters of recommendation. A number of teaching and research assistantships are available for graduate students. All assistantships include benefits and a waiver of out-of-state tuition up to the amount needed for the degrees (30 for MS and 60 for PhD; up to 12 hours per semester). Summer assistantships may also be available. The Departmental Graduate Committee accepts admissions applications throughout the year, and will render decisions on admission and/or funding as soon as practical, however, to be considered for an assistantship applications must be submitted by February 1.

Certificate in GIS: Admission to the certificate program in GIS is open to any student enrolled as an undergraduate, graduate student, or special student at OSU. To earn the certificate a student must complete nine hours of prerequisite coursework, a minimum of 12 credit hours of coursework in GIS and related subjects, and have completed a bachelor's degree from OSU or another accredited college or university. Additional information about the Certificate in GIS is available on the Department website.

FACULTY:

Brad A. Bays, Ph.D., Nebraska, 1996, Associate Professor — historic preservation, historical GIS, Native Americans, agricultural history, Great Plains, Oklahoma

Don Colley, III, ABD, San Diego State University, Instructor of Professional Practice — geographies of young people, online communities and virtual spaces, social movements, geographic education, violence, post-capitalist societies, critical sports geography

Jonathan C. Comer, Ph.D., Ohio State, 1994, Professor — location analysis, wireless communications, rural transportation, quantitative methods

Carlos Cordova, Ph.D., Texas, 1997, Professor — Quaternary paleoecology, geomorphology, geoarchaeology, Great Plains, Middle East, Black Sea region, southern Africa

G. Allen Finchum, Ph.D., Tennessee, 1992, Associate Professor — urban, GIS, sport, population geography, United States/American South

Amy E. Frazier, Ph.D., University at Buffalo, 2013, Assistant Professor — remote sensing, landscape ecology, natural resource management, human-environment interactions, spatial analysis

Alyson L. Greiner, Ph.D., Texas, 1996, Professor — cultural, historical, history of geography, folk architecture and historic preservation, necrogeography, Europe, Australia/Pacific

Reuel R. Hanks, Ph.D., Kansas, 1993, Professor — political, ethnic, Central Asia, Russia

Peter Kedron, Ph.D., University at Buffalo, 2012, Assistant Professor — new industrial landscapes, sustainability, renewable energy, regional economic development, foreign direct investment, spatial analysis

Dale R. Lightfoot, Ph.D., Colorado, 1990, Professor and Head — natural resource management, water resources, historic water technology, cultural ecology, North Africa/Middle East/Central Asia

Adam J. Mathews, Ph.D., Texas State, 2014, Assistant Professor — GIS, remote sensing, unmanned aerial vehicles, lidar, wine

Rebecca A. Sheehan, Ph.D., Louisiana State, 2006, Associate Professor — cultural, historical, tourism, public space, homelessness, identity, community, alternative spaces and places

Stephen J. Stadler, Ph.D., Indiana State, 1979, Professor — applied climatology, wind power, remote sensing

Jacqueline Vadjunec, Ph.D., Clark, 2007, Associate Professor — human dimensions of global environmental change, people, trees and forests, common property resource management, cultural and political ecology

Thomas A. Wikle, Ph.D., Southern Illinois, 1989, Professor and Associate Dean — resource management, public lands, wireless communication systems

Hongbo Yu, Ph.D., Tennessee, 2005, Associate Professor — transportation geography, GIS, time geography

STAFF AND AFFILIATED FACULTY:

Clay Barrett, M.S., Oklahoma State, 2015, GIS Specialist/Cartography Service

Michael P. Larson, M.S., Oklahoma State, 2003, Coordinator, OSU Cartography Service

Jing Wang, M.S., Clark, 2013, Coordinator, Center for Applications of Remote Sensing

John F. Rooney, Jr., Ph.D., Clark, 1966, Regents Professor Emeritus — sport and recreation, geo-demographics, United States

UNIVERSITY OF CENTRAL OKLAHOMA

DEPARTMENT OF HISTORY AND GEOGRAPHY

DATE FOUNDED: 1968

DEGREE OFFERED: B.A.

CHAIR: Katrina Lacher

DEPARTMENT ADMINISTRATIVE ASSISTANT:

Annamaria Martucci

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Michelle Brym, University of Central Oklahoma; Department of History and Geography; 100 N. University Dr.; Edmond, OK 73034. Telephone: (405) 974-5665. Fax: (405) 974-3823. E-mail: mbrym@uco.edu. Internet: <http://www.uco.edu/la/history-geography/>

PROGRAMS AND RESEARCH FACILITIES: A major consists of 36 semester hours in geography. All geography majors take courses in introductory, thematic, and regional geography. Major requirements allow for students to select most of their courses in order to meet

specific career goals and professional interests. A geography minor requires 18 semester hours. Geography students receive a high level of personalized attention in a rigorous academic setting. Classes do not exceed 40 members, and are typically smaller in number. The department also houses a GIS lab for students to develop technical skills. Faculty members regularly interact with students during field experiences.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: This program is conducted on the semester system (fall, spring, summer). Admission to the University of Central Oklahoma is determined by a combination of high school class rank, GPA, and ACT or SAT scores. Students can become geography majors by declaring so upon admission or by consulting with a departmental faculty member after arriving on campus. University of Central Oklahoma students are eligible for a variety of grants, scholarships, and loans through the university's financial aid office. More information can be obtained by contacting the Office of Admissions, Enrollment Services; University of Central Oklahoma; 100 N. University Dr.; Edmond, OK 73034; <http://www.uco.edu/future.htm>.

FACULTY:

Michelle Brym, Ph.D., University of Tennessee, 2009, Associate Professor — border studies, migration, Europe

Shannon Hall, Ph.D., University of Oklahoma, 2015, Lecturer — biogeography, environmental conservation, physical geography, Sub-Saharan Africa

Brad W. Watkins, Ph.D., Oklahoma State, 2007, Professor — geographic information systems (GIS), historical geography

ADJUNCT AND EMERITI FACULTY:

Byung (Walter) Jung, Ph.D., University of Oklahoma, 1984, Professor Emeritus

UNIVERSITY OF OKLAHOMA

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL SUSTAINABILITY

DATE FOUNDED: 1946

GRADUATE PROGRAM FOUNDED: 1930

DEGREES OFFERED: B.A., B.S., M.A., M.S., Ph.D. in Geography; B.A., B.S. in GIS; B.A., B.S., M.S. in Environmental Sustainability; Graduate Certificate in Geospatial Information Technologies

GRANTED 9/1/16-8/31/17: 66 Bachelors, 8 Masters, 4 Ph.D.

STUDENTS IN RESIDENCE: 178 Bachelors, 27 Masters, 13 Ph.D.

CHAIR: Kirsten de Beurs

DEPARTMENT ADMINISTRATIVE ASSISTANT:

Emalee Lemke

FOR FURTHER INFORMATION: General Information: Dr. Kirsten de Beurs, kdebeurs@ou.edu. Graduate Program: Dr. Laurel Smith, Graduate Liaison, laurel@ou.edu. Undergraduate Program: Ms. Jamie Steele, Undergraduate Advisor, jamie@ou.edu. Ms. Alexis Miller, Outreach and Internship Coordinator, alexis.miller@ou.edu. Department of Geography and Environmental Sustainability, 100 E. Boyd St., SEC 510, University of Oklahoma, Norman, Oklahoma 73019-1007. Telephone (405) 325-5325.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and Environmental Sustainability offers undergraduate degrees in Geography (B.A., B.S.), Geographic Information Science (B.A., B.S.) and Environmental Sustainability (B.A., B.S.), a master's

degree (M.S.) in environmental sustainability, as well as graduate (M.A., M.S., Ph.D.) degrees in geography.

Course offerings and research opportunities in Geography are concentrated in three major areas of specialization: human geography and geohumanities, physical geography, and geospatial sciences, including GIS and remote sensing. Research emphases within human geography include cultural geography, political geography, and political ecology. Within physical geography, faculty research emphasizes work in biogeography, climatology, and hydrology. Research in remote sensing and geographic information systems emphasizes integrated geospatial technologies for analyzing the effect of humans and climate on the global vegetative land surface.

All Environmental Sustainability students take a common set of six core courses to give them strong grounding in the principles of environmental sustainability. Subsequently, students may specialize in one of three areas of concentration. These are: *Sustainability Science and Natural Resources*. This concentration focuses on the physical environmental or ecosystem aspects of sustainability as well as its impacting forces. *Sustainability Planning and Management*. This concentration focuses on how organizations and institutions perceive, adopt, and implement sustainability programs and practices. *Sustainability, Culture, and Society*. This concentration focuses on the human dimensions of sustainability, including the dynamics driving the perception and management of sustainability in different societies and cultures around the world.

Regional research specialties of the faculty include North America (especially the Southwest and Great Plains), Latin America, Central Asia, and Europe/Russia.

The Department strongly encourages faculty-student collaboration in research and teaching and emphasizes strong mentoring relationships with graduate and undergraduate students. Affiliate centers include The Oklahoma Alliance for Geographic Education (OKAGE), and the Center for Spatial Analysis (CSA). The many resources of the University include the National Weather Center, the Oklahoma Climatological Survey, the Oklahoma Biological Survey, the Oklahoma Geological Survey, the Western History Collections, the NASA Space Grant Consortium, and the History of Science Library. The University also hosts the South Central Climate Science Center and the Southern Climate Impact Planning Program.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University operates with two semesters and a summer session. Graduate teaching and research assistantships are available to qualified doctoral and master's students. In addition, individual faculty members support students from research grants and contracts. Other scholarships and financial aid packages are available from University sources.

An application for admission must be accompanied by official transcripts, two letters of recommendation, official GRE scores, and a statement of research interests and goals. Graduate applicants are strongly encouraged to identify and contact potential research advisors. Applicants for graduate assistantship positions should submit application materials by January 15 in order to ensure consideration for the next academic year.

FACULTY:

Kirsten de Beurs, Ph.D., University of Nebraska--Lincoln, 2005, Associate Professor and Chair — impacts of humans and climate on global vegetative land surface, land cover and land use change, land surface phenology, remote sensing
Nicholas Bauch, Ph.D., University of California--Los Angeles, 2010, Assistant Professor — geohumanities
Travis Gliedt, Ph.D., University of Waterloo, Canada, Assistant Professor — environmental economic geography, strategic

green decisions in organizations, green entrepreneurship, sustainable development, energy systems and sustainability

J. Scott Greene, Ph.D., University of Delaware, 1994, Professor — synoptic and applied climatology, climate change, renewable energy
Gary Gress, Ph.D., University of Oklahoma, 2000, Lecturer and Coordinator of the Oklahoma Alliance for Geographic Education — cultural geography, geographic education
Bruce Hoagland, Ph.D., University of Oklahoma, 1995, Professor and Oklahoma Natural Heritage Biologist — landscape ecology, plant community ecology, biogeography
Jennifer Koch, Ph.D., University of Kassel, Germany, 2010, Assistant Professor — land-use and Land-cover change, integrated modeling, coupled human and natural systems, GIS
Mary Lawhon, Ph.D., Clark University, 2011, Assistant Professor — political ecology, Africa, urban infrastructure, socio-technical transitions, waste, human-environment relationships
Rebecca Loraamm, Ph.D., University of South Florida, 2015, Assistant Professor — GIS, time geography, location modeling, suitability modeling, network analysis, road ecology, wildlife ecology and management
Renee McPherson, Ph.D., University of Oklahoma, 2003, Associate Professor — regional and applied climatology, mesoscale meteorology, land-air-vegetation interactions, climate variability and change, surface weather observing systems
Mark Meo, Ph.D., University of California, Davis, 1983, Professor — strategic policy innovation and social learning, corporate environmental management, clean fuels and sustainable energy systems, climate policy
Hernan Moreno, Ph.D., Arizona State University, 2012, Assistant Professor — watershed processes, hydrologic modeling, flood forecasting, hydrologic effects of land cover and climate change
Thomas Neeson, Ph.D., University of Michigan, 2010, Assistant Professor — conservation biology, landscape ecology, freshwater ecosystems, simulation and modeling, statistics
Joseph Pierce, Ph.D., Clark University, 2011, Assistant Professor — urban geography, environmental politics, housing, micropolitics, place and place-making, urban political theory, sustainability
Darren Purcell, Ph.D., Florida State University, 2003, Associate Professor — popular geopolitics, political geography, media and communications geographies, humor, digital humanities
Robert A. Rundstrom, Ph.D., University of Kansas, 1987, Associate Professor — cultural geography, historical geography, indigenous peoples, United States
Mark Shafer, Ph.D., Oklahoma, 2005, Assistant Professor — hazard preparedness and mitigation, adaptation to climate change, local and state government, use of scientific information in policy decisions, climate services
Laurel C. Smith, Ph.D., University of Kentucky, 2005, Associate Professor — geopolitics of knowledge production, indigenous peoples, cultural geography, the Americas
Jeff Widener, Ph.D., University of Oklahoma, 2015, Associate Professor and Director of Center for Spatial Analysis — American West, cartography and data visualization, historical and cultural geography, geospatial technologies and society, GIS
Jadwiga Ziolkowska, Ph.D., Humboldt University of Berlin, 2007, Assistant Professor — environmental economics, water and energy economics, Biofuels and renewable energy, Decision making under uncertainty, Sustainability and climate change, mathematical methods and programming

EMERITUS FACULTY:

Bret Wallach
Fred Shelley
Marvin W. Baker, Jr.
Richard L. Nostrand

OREGON

CHEMEKETA COMMUNITY COLLEGE

SOCIAL SCIENCE PROGRAM

DATE FOUNDED: 1970

DEGREES OFFERED: A.A.

SOCIAL SCIENCE PROGRAM DEAN: Cecelia Monto
PROGRAM ADMINISTRATIVE ASSISTANT: Amber McMurray

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Social Science Program, Chemeketa Community College, 4000 Lancaster Dr. NE, Salem, OR 97305. (503) 399-5140. Internet: www.chemeketa.edu.

PROGRAMS AND RESEARCH FACILITIES:

Chemeketa Community College offers approximately one dozen transferable courses in Geography and several in G.I.S.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Chemeketa Community College operates on a quarter system. Any person 18 years or older may enroll in Chemeketa classes.

FACULTY:

Steve Wolfe, M.A., *University of Missouri-Columbia, 1993* — Oregon, Physical, Cultural, Economic, U.S. & Canada, World Regional

ADJUNCT FACULTY:

Lori Cole, M.A., *California State University-Chico* — Cultural
Lauren Hull, M.S., *Louisiana State University* — Cultural, Economic

OREGON STATE UNIVERSITY

COLLEGE OF EARTH, OCEAN, AND ATMOSPHERIC SCIENCES (CEOAS)

DATE FOUNDED: 1946 (Geography); 1989 (Geosciences); 2012 (CEOAS)

GRADUATE PROGRAM FOUNDED: 1952

DEGREES OFFERED: Geography and Geospatial Sciences B.S.; Geography M.A., M.S., Ph.D.

DIRECTOR OF GEOGRAPHY: Julia A. Jones

FOR FURTHER INFORMATION WRITE TO: Stacey Schulte, Administrative Program Assistant, College of Earth, Ocean, and Atmospheric Sciences, Oregon State University, 104 CEOAS Admin Building, Corvallis, Oregon 97331-5503. Telephone (541) 737-1201. Fax (541) 737-1200. E-mail: ceoas_undergrad@oregonstate.edu (undergraduate program), student_advisor@coas.oregonstate.edu (graduate program). Internet: <http://ceoas.oregonstate.edu/students/>.

PROGRAMS AND RESEARCH FACILITIES: Students can obtain the BS in Geography and Geospatial Science (online and on-campus), the certificate in GIScience (undergraduate and graduate, online and on-campus), and the MS and PhD in Geography.

Graduate studies and research in Geography include three areas of excellence:

Geospatial technologies and analysis: Many careers in geography involve geospatial technologies and analysis applied to research, teaching, government and industry. Geography at OSU helps graduate students to obtain an integrated training in GIScience, cartography, remote sensing, geovisualization, geospatial intelligence, spatial statistics and modeling, and web mapping. Students may pursue this area of study as part of the MS or PhD in Geography. Graduate students also can obtain a GIScience certificate.

Water, climate, and society: Access to water resources is essential for human health and societies, yet water resources are unevenly distributed in space and time, while climate variability and change may intensify conflicts over water. Geography at OSU helps graduate students to obtain an integrated training in surface processes, climatology, biogeography, water policy, and water management. Students may pursue this area of study as part of the MS or PhD in Geography. Graduate students also can obtain an online certificate in water conflict.

Resources, planning, and hazards: Natural resources, planning, and hazards are ideal topics for geographic study because they link physical processes governing natural hazards with factors such as social vulnerability, planning and resource management. Many aspects of these issues have a strong regional focus. Geography at OSU helps graduate students to obtain an integrated training in the geography of resources, land use, and rural and regional resource evaluation. Students may pursue this area of study as part of the MS or PhD in Geography.

Program facilities include an instructional computer lab, the GAZE (Geospatial Analysis and Visualization for Education) facility, GIScience capable computer classrooms, enhanced digital projection classrooms, and remote sensing, GIS, geovisualization and geospatial analysis research laboratories. In addition, the Corvallis community is home to an EPA Laboratory and U.S. Dept. of Agriculture and U. S. Forest Service facilities that are active in GIScience, remote sensing and spatial modeling research, which provides additional opportunities for work and research for many students. Research and teaching assistantships are competitively awarded to well-qualified students. One foreign language is required for a Ph.D. degree. Masters students may elect either a thesis or a project option.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Admission requirements: Preferred cumulative GPA of 3.0 and completion of 15 required subject area courses. Minimum cumulative GPA of 2.25 on transferable credits. Quarter system. Financial aid: Scholarships, grants, loans and part time employment (<http://financialaid.oregonstate.edu/>).

Graduate: Admission requirements: 3.00 GPA on entire baccalaureate or on last 90 quarter credits (60 semester credits) and a 4-year baccalaureate degree from an accredited college or university, and three letters of recommendation. GRE required. Quarter system. Financial aid. Tuition waivers. Teaching and research assistantships. Completed application must be received by January 5 for Fall Term admission & TA/RA consideration

FACULTY:

Laurence Becker, PhD, *London School of Oriental and African Studies, 1989, Professor* — agricultural food systems, development, Africa

Lorene Yokoyama Becker, MS, *University of Wisconsin-Madison, 1999, Senior Instructor* — geographic information systems and sustainability

Michael E. Campana, PhD, Arizona, 1975, Professor — hydrology, transboundary water resource issues, water allocation and availability

Steve Cook, PhD, University of Florida, 1995, Senior Instructor — environmental sustainability

Hannah Gosnell, PhD, University of Colorado, 2000, Associate Professor — land use, biodiversity, conservation, water resources

Michael Harte, PhD, University of Victoria, British Columbia, 1994 — marine geography, natural resource management and planning

Demian Hommel, PhD, Oregon, 2009, Senior Instructor — cultural geography, natural hazards

Shireen Hyrapiet, PhD, Oklahoma State, 2012, Senior Instructor — political ecology, disaster management, cultural geography

Todd Jarvis, PhD, Oregon State University, 2006, Assistant Professor (Senior Research) — water resources conflict resolution, groundwater

Julia A. Jones, PhD, Johns Hopkins, 1983, Professor — landscape ecology, spatial statistics, hydrology, informatics

Robert E. Kennedy, PhD, Oregon State University, 2004, Assistant Professor — geospatial analysis and remote sensing

Mary V. Santelmann, PhD, Minnesota, 1988, Associate Professor (Senior Research) — biogeography, biodiversity, ecology, plant physiology

Jenna Tilt, PhD, University of Washington, 2007, Assistant Professor (Senior Research) — urban ecology, rural and regional planning

Jamon Van Den Hoek, PhD, University of Wisconsin-Madison, 2012, Assistant Professor — remote sensing, conflict ecology, land use/land cover

James Watson, PhD, University of California-Santa Barbara, 2011, Assistant Professor — complex adaptive social-ecological systems

Aaron T. Wolf, PhD, Wisconsin, 1992, Professor — water resources, policy and planning, Middle East geopolitics

David Wrathall, PhD, Kings College London, 2011, Assistant Professor — human dimensions of natural hazards

Bo Zhao, PhD, Ohio State University, 2015, Assistant Professor — geovisualization

GEOGRAPHY COURTESY FACULTY:

Christopher Daly, PhD, Oregon State University, 1994, Professor — climate mapping, PRISM

Jim Graham, PhD, Colorado State University, 2006, Assistant Professor (Humboldt State University) — GIS, geospatial programming

Sean Fleming, PhD, University of British Columbia, 2004, Assistant Professor — hydroclimatology

Gordon Grant, PhD, Johns Hopkins, 1986, Professor (US Forest Service PNW Station) — fluvial geomorphology

Steven W. Hostetler, PhD, Oregon, 1988, Associate Professor, Research (USGS) — regional climate modeling, hydrology

Sarah Shafer, PhD, Oregon, 2000, (Project Chief, USGS) — species and ecosystem response to projected future climate change

Denis R. White, MA, Boston University, Research Assistant — geographic analysis and synthesis

Dawn Wright, PhD, UC, Santa Barbara, 1994, Professor — geographic information systems and spatial analysis, marine geography, informatics and cyberinfrastructure, geographic information science in higher education

PORTLAND STATE UNIVERSITY

GEOGRAPHY DEPARTMENT

DATE FOUNDED: 1959

GRADUATE PROGRAM FOUNDED: 1969

DEGREES OFFERED: B.A., B.S., M.A., M.S., Ph.D.

(Earth, Environment, & Society), Graduate GIS Certificate

GRANTED 9/1/2015-8/31/2017: 29 Bachelors, 11 Masters, 23 GIS Grad Certificates (16 Geography Minors, 28 GIS Minors, 8 Water Resources Minors)

STUDENTS IN RESIDENCE: 126 Majors, 39 Masters, 34 GIS Grad Certificates (64 Geography Minors, 91 GIS Minors, 33 Water Resource Minors)

CHAIR: Heejun Chang, Ph.D.

DEPARTMENT ADMINISTRATOR: Joann Ng

FOR FURTHER INFORMATION WRITE TO: Geography Department, Portland State University, P.O. Box 751, Portland, Oregon 97207-0751. Telephone (503) 725-3916. Fax (503) 725-3166. E-mail: geog@pdx.edu. Internet: www.pdx.edu/geography

PROGRAMS AND RESEARCH FACILITIES:

The Geography Department at Portland State University (PSU) links environmental studies and cultural studies in programs centered on environmental issues, social and cultural landscapes, sustainability in urban and natural areas, and geographic information science. Coursework emphasizes systematic and regional approaches to understanding the physical environment and human-environment interactions. Techniques classes (in GIS, remote sensing, spatial analysis, and cartography) provide the tools to analyze complex local, regional, and global phenomena. PSU's location in downtown Portland, with easy access to the Pacific Coast, the Cascade Mountains, and the Willamette Valley, provides ample opportunity for field work-based classes and field work opportunities for research in urban, rural, and wilderness sites. Numerous local, state, and federal agencies are within walking or driving distance, providing opportunities for applied research in a wide variety of areas. Faculty engage in local, regional, and international research projects in hydrology, water resources, ecosystem services, biogeography, climate change, sustainable resource use, land use analysis, cultural and political ecology, the urban environment, geographic education and geographic information science.

AREAS OF CONCENTRATION INCLUDE:

Nature-Society Geography: The examination of environmental change and human influences on natural resources; conservation, cultural and political ecology, environmental ethics, environmental justice, and resource management are also department interest areas.

Geographic Information Science: Techniques for the measurement, collection, analysis, and display of spatial data. Areas of emphasis include cartography, scientific visualization, geographic information systems, remote sensing, global positioning systems, data mining, knowledge discovery, and quantitative methods.

Physical and Environmental Geography: The natural environment of the earth as a set of interrelated systems. Geographic specialties include hydrology and water resources, climate science, geomorphology and soils, biogeography, and alpine environments.

Cultural and Human Geography: The role of culture and the built and natural environment in informing human behavior and shaping places in urban, rural, and overseas locations. Faculty interests include: analysis of place and landscape, rural landscapes, urban morphology, and urban natural areas.

Regional Analysis and International Studies: Focus on the distinctive character of various regions of the world, particularly how nature and society have interacted over time to shape places and landscapes. Regions of particular interest include East Asia, South Asia, Central and South America, Africa, and North America.

Research and teaching facilities within the department include an instructional laboratory featuring networked Windows workstations, two ArcGIS servers, a large format plotter, scanners, and printers. The Department's Center for Spatial Analysis & Research (CSAR) supports research and teaching in cartography, GIS, remote sensing, and quantitative analysis. A GIS/Cartography research lab is also available for graduate student project use. Additional computing facilities for teaching and research are available throughout the campus. A campus-wide ESRI site license provides access to ArcGIS and related spatial-analysis extensions. Other software packages in the lab include ENVI, Adobe Illustrator, Google Sketchup Pro, and Pathfinder Office. The department also supports student use of a variety of open-source graphics and statistical software. Physical geography facilities include equipment for the field and laboratory analysis of soils, water, and tree rings. The University Library houses a map and atlas collection in addition to its nearly 1,000,000 volumes. The department cooperates with interdisciplinary graduate programs on campus, including the Earth, Environment, and Society Ph.D. program in the School of the Environment (SOE) and the MAT/MST program in Social Science. The SOE doctoral program offers courses in resource management, geographic information science, physical geography, and human geography. The Geography Department also offers the Graduate Certificate in Geographic Information Systems.

Graduate students are provided with shared office space and facilities for both research and interaction with faculty and other students. Research opportunities for graduate students are varied. PSU's urban location provides many opportunities for internships with numerous federal, state, and local agencies in Portland. Students may be involved in faculty research projects. There are two student groups: Friends of Geography (FOG) and a student chapter of the American Society for Photogrammetry and Remote Sensing (ASPRS).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: PSU follows the quarter system. Incoming students begin in the fall term. For admission to graduate study a student should normally have completed the minimum preparation for an undergraduate major in geography with a 3.0 average in all undergraduate work. Students with majors in other fields are encouraged to apply if they can demonstrate the ability to pursue graduate work in geography. Students seeking the M.A. degree must demonstrate their competence in the use of a foreign language for geographic research; those preparing for an M.S. degree must show proficiency in advanced techniques in geography. Students in the M.A. program must complete a thesis. Those in the M.S. program may choose between thesis and non-thesis (research paper) options. The department has a limited number of assistantships and scholarships, and awards will be given based on each student's merit. Students interested in the Earth, Environment, and Society Ph.D. through the School of the Environment should contact the faculty member with whom they would like to work.

FACULTY:

Idowu (Jola) Ajibade, Ph.D., Western University - Canada, 2013, Assistant Professor — future cities, climate extremes, sustainability planning, transformation studies, political ecology, urban slums, gender and disaster-risk reduction
David Banis, M.S., Portland State University, 2004, Associate Director of Center for Spatial Analysis & Research (CSAR) and Adjunct Instructor — applied GIS, map design, cultural geography, natural resource management
Barbara Brower, Ph.D., University of California-Berkeley, 1987, Professor — resource policy, mountain geography, pastoralism, cultural ecology, highland Asia, American West

Alida Cantor, Ph.D., Clark University, 2016, Assistant Professor — water resources management, legal geography, environmental justice, political ecology, feminist science and technology studies, human-environment geography
Heejun Chang, Ph.D., Pennsylvania State University, 2001, Professor and Chair — hydrology and water resources, climate change impact assessment, ecosystem services, visual spatial analysis, GIS applications in hydrology and water resources
Jiunn-Der (Geoffrey) Duh, Ph.D., University of Michigan, 2004, Associate Professor — GIS, remote sensing, spatial decision support systems, ecological and socioeconomic processes
Andrés Holz, Ph.D., University of Colorado, Boulder, 2009, Assistant Professor — forest dynamics, disturbance ecology, climate-fire-human relationships
Nancy Hunter, Ph.D., Portland State University, 2016, Research Assistant Professor and Director of the Center for Geography Education in Oregon — geography education
Martin Lafrenz, Ph.D., University of Tennessee, 2005, Associate Professor — geomorphology and water resources, land use change, geographic information systems
Paul Loikith, Ph.D., Rutgers University, 2012, Assistant Professor — regional climate and climate change, climate and weather extremes, climate model analysis
Melissa Lucash, Ph.D., The State University of New York, 2005, Research Assistant Professor — forest ecology, climate change, biogeochemistry, landscape ecology, ecological modeling, forest management, tree physiology, integrating research into decision-making, K-12 education
Hunter Shobe, Ph.D., University of Oregon, 2005, Associate Professor — cultural and urban geography
Martin Swobodzinski, Ph.D., San Diego State University/University of California-Santa Barbara, 2012, Assistant Professor and Director of Center for Spatial Analysis & Research (CSAR) — geographic information science, behavioral geography, human-computer interaction, individual decision making, public participation, transportation

RESEARCH AND AFFILIATED FACULTY:

Michael C. Houck, M.S.T., Portland State University, 1972, Urban Naturalist, Audubon Society of Portland; Director, Urban Greenspaces Institute; Loeb Fellow, Harvard University, 2003-04 — urban wildlife, wetlands, growth management
Nathan McClintock, Ph.D., Geography, University of California, Berkeley, 2011 — urban agriculture and food systems, urban political ecology, critical urban geography
Rebecca McLain, Ph.D., Forest Management, University of Washington, 2000 — natural resource governance and tenure, community-based participatory mapping, and socioeconomic assessment
Scott Nowicki, Ph.D. Geological Sciences, Arizona State University, Tempe, 2006 — remote sensing and GIS, environmental monitoring, instrument development
Tim Palmer, B.S., The Pennsylvania State University, 1971 — landscape architecture, rivers, landscape photography
Colin Thorne, Ph.D., University of East Anglia, U.K., 1978 — river science, fluvial geomorphology

EMERITI FACULTY:

Teresa L. Bulman, Ph.D., University of California-Davis, 1990, Professor Emerita — research in geography education; teaching in climate and water resources
Daniel M. Johnson, Ph.D., Arizona State University, 1977, Professor Emeritus — climatology, hydrology, resource management
D. R. Lycan, Ph.D., Washington, 1964, Professor Emeritus — demography, GIS, Canada
Joseph Poracsky, Ph.D., University of Kansas, 1984, Professor Emeritus — cartography/geographic visualization, applied GIS and remote sensing, urban natural areas/urban forest

Larry W. Price, Ph.D., Illinois, 1970, Professor Emeritus — geomorphology, biogeography, periglacial environments, mountains

Martha A. Works, Ph.D., Louisiana State University, 1985, Professor Emerita — Latin America, cultural geography, agriculture and food supply, rural sustainable development

UNIVERSITY OF OREGON

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1920s

GRADUATE PROGRAM FOUNDED: 1923

DEGREES OFFERED: B.A., B.S., M.A., M.S., Ph.D.

HEAD: Daniel Gavin

DEPARTMENT MANAGER: Lisa Knox

FOR FURTHER INFORMATION WRITE TO: Department of Geography, 1251 University of Oregon, Eugene, Oregon 97403-1251. Telephone (541) 346-4555. Fax (541) 346-2067. E-mail: uogeog@uoregon.edu. Internet: geography.uoregon.edu.

PROGRAMS AND RESEARCH FACILITIES:

Research and graduate education in the Department of Geography focus on the subfields listed below:

Physical geography: Biogeography, climatology and climatic change, fluvial geomorphology, paleoecology, Quaternary studies

Environmental studies: Forest and ecosystem issues, river and watershed issues, biodiversity and global environmental change, policy and law

Human geography: political-economic (especially international relations, territorial conflict, international development, globalization), cultural-social (especially historical geography, migration, race, ethnicity and identity, urban geography, gender studies and tourism), and human-environment relations (especially cultural/political ecology); and behavioral geography (especially spatial cognition, map use, and neuroimaging applications in behavioral research)

Geographic information science: Cartography, GIS, data analysis and visualization, spatial analysis and modeling, and mapping for the blind and visually impaired

Geographic education: (especially teaching Advanced Placement and K-12 geography)

Regional geography: Africa, China, Europe, Latin American, the Middle East, and North America

The department houses the award-winning InfoGraphics Lab (<http://infographics.uoregon.edu/>), which focuses on integration of GIS and graphic design tools and techniques for map and atlas creation, interactive mapping, and visualization. The InfoGraphics Lab conducts a wide variety of research projects sponsored by government agencies and other organizations. The department also maintains field equipment and wet labs in support of physical geography research. The University Library Map and Aerial Photography Collection has extensive holdings of digital, current, and historical maps and aerial photography.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Quarter system. Admission Requirements: Lower division courses in the Department of Geography have no prerequisites. *Financial aid:* For questions regarding financial aid, scholarships, student loans, and work-study jobs, write to: Office of

Student Financial Aid and Scholarships, 1278 University of Oregon, Eugene, OR 97403-1278 or see financialaid.uoregon.edu.

The Department offers both B.A. and B.S. degrees in geography. The undergraduate program requires coursework in human, physical, regional geography, and geographic information science. Degrees require language training or a minimum of two terms of college-level mathematics.

GRADUATE: The Department selects for admission on the basis of a statement of purpose for pursuing graduate work, three letters of recommendation, GRE scores, and past academic records. Graduate Teaching Fellowships, which provide a stipend and cover out-of-state tuition, require assisting in courses, instructing a course, or working with a professor on a research grant. All non-native speakers of English must submit an IELTS or TOEFL score.

The Masters degree in Geography (M.A. or M.S.) focuses on developing a general understanding of the breadth of human and physical geography, and learning to do original research in a sub-field of geography. A thesis is required. The practice-oriented Masters of Science in Geography Education is aimed at secondary school teachers. Coursework for this degree includes breadth courses in human geography, physical geography and geographic information science, and a final masters project that develops a learning activity based on original research for use in schools.

The Ph.D. program in Geography requires specialization in one or more sub-fields supported by the Department, development of appropriate research skills and methodologies for the sub-field, and completion of a dissertation that represents an original contribution to knowledge. Ph.D. students are also expected to develop background across the breadth of human and physical geography, as required for the Masters degree. Although the Department requires knowledge of the fundamentals of geography, it welcomes graduate applications from students whose undergraduate work has been in other disciplines. A number of teaching/research assistantships and internship opportunities are available on a competitive basis.

FACULTY:

Patrick J. Bartlein, Ph.D., Wisconsin-Madison, 1978, Professor — climatology, data analysis and visualization

Daniel P. Buck, Ph.D., UC Berkeley, 2002, Associate Professor, Asian Studies — rural-urban relations, industrialization, political economy, China

Shaul E. Cohen, Ph.D., Chicago, 1991, Associate Professor — political and cultural geography, environmental, Middle East, Northern Ireland

Mark A. Fonstad, Ph.D., Arizona State, 2000, Associate Professor — geomorphology, hydrology, remote sensing, environmental simulation

Daniel G. Gavin, Ph.D., Washington, 2000, Associate Professor and Department Head — biogeography, paleoecology

Leigh Johnson, Ph.D., UC Berkeley, 2011, Assistant Professor — political ecology, development, economic geography

Amy K. Lobben, Ph.D., Michigan State, 1999, Professor — cartography, spatial cognition and abilities, GIS, neuroimaging

W. Andrew Marcus, Ph.D., Colorado, 1987, Professor — hydrology, fluvial geomorphology, remote sensing of rivers, Yellowstone and mountain environments

Patricia F. McDowell, Ph.D., Wisconsin-Madison, 1980, Professor — geomorphology, river management and restoration, Quaternary environments

James E. Meacham, M.A., Oregon, 1992, Senior Research Associate and Director, InfoGraphics Laboratory — cartographic design and production, geographic information systems

Katharine Meehan, Ph.D., University of Arizona, 2010, Associate Professor — urban sustainability, water policy

Alexander B. Murphy, Ph.D., Chicago, 1987, Professor — political and cultural geography, Europe, law and geography

Laura Pulido, Ph.D., University of California, Los Angeles, 1991, Professor — critical human geography, race, environmental justice, labor, chicana/o studies, popular education
Hedda R. Schmidtke, Ph.D., University of Hamburg, 2005, Assistant Professor — geographic information science, scale
Lucas Silva, Ph.D., University of Guelph, ON, Canada, 2011, Assistant Professor — terrestrial ecology, soil-plant-atmosphere interactions, climate change impacts on natural and managed lands
Xiaobo Su, Ph.D. National University of Singapore, 2007, Associate Professor — cultural landscape, tourism, identity, China
Peter A. Walker, Ph.D., UC Berkeley, 1997, Professor — cultural and political ecology, human-environmental relations, Africa

EMERITI FACULTY:

Stanton A. Cook, Ph.D., UC, Berkeley, 1960
Carl L. Johannessen, Ph.D., UC Berkeley, 1959
Alvin W. Urquhart, Ph.D., UC Berkeley, 1962
Ronald Wixman, Ph.D., Chicago, 1978

PENNSYLVANIA

BLOOMSBURG UNIVERSITY OF PENNSYLVANIA

DEPARTMENT OF ENVIRONMENTAL, GEOGRAPHICAL, & GEOLOGICAL SCIENCES
DATE FOUNDED: 1963
DEGREES OFFERED: B.S., Environmental, Geographical, & Geological Sciences
GRANTED 9/1/17-9/1/18: 28
MAJORS: 230
CHAIR: Michael K. Shepard
DEPARTMENT SECRETARY: Cheryl L. Smith

FOR CATALOG AND FURTHER INFORMATION: Visit the Department website at www.bloomu.edu/eggs-department or E-mail msh Shepard@bloomu.edu. Dr. Michael K. Shepard, Environmental, Geographical, & Geological Sciences, 127 Hartline Science Center, Bloomsburg University, 400 East Second St., Bloomsburg, Pennsylvania 17815-1301. Telephone (570) 389-4108/4568.

PROGRAMS AND RESEARCH FACILITIES: The Department offers three areas of concentration (or tracks) for the Bachelor of Science degree in Environmental, Geographical, & Geological Sciences. The Geography and Planning track prepares students for a range of careers or graduate school in the environmental resource management, conservation, or planning fields. Professional Geology prepares students for graduate school in the geosciences or for a profession in the geosciences and eventual licensure as Professional Geologists in the state of Pennsylvania. Environmental Geoscience prepares students for a broad array of careers in the environmental field or graduate school, with a focus on the water and/or soil sciences. All tracks require a capstone experience: students on the Geography and Planning track complete a full-time summer internship; Professional Geology students attend field camp; and Environmental Geoscience students attend an environmental field school. Geographic Information Systems (GIS) is integrated into all degree tracks. The Department research facilities include three GIS and cartography laboratories, a soil science lab, an aqueous geochemistry lab, petrology lab and preparation rooms, an SEM/EDS and microscopy laboratory, and an extensive collection of archived and cataloged maps, rocks, minerals, and fossils.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system with summer school. Admission information can be obtained at www.bloomu.edu/admissions, by phone at (570) 389-4316, or by mail to Office of Admissions, 104 Student Services Center, Bloomsburg University, Bloomsburg, Pennsylvania 17815-1301. Financial aid information can be obtained at www.bloomu.edu/aid, by phone at (570) 389-4297, or by mail to Office of Financial Aid, 119 Student Services Center, Bloomsburg University, Bloomsburg, Pennsylvania 17815-1301.

FACULTY:

Patricia J. Beyer, Ph.D., Arizona State University, 1997, Associate Professor — physical geography, geomorphology, surface hydrology, water resources
John E. Bodenman, Ph.D., Pennsylvania State University, 1995, Professor — economic geography, cultural geography, urban geography
Jeffrey C. Brunskill, Ph.D., SUNY at Buffalo, 2005, Associate Professor — meteorology, geographic information systems
Tina Delahunty, Ph.D., University of Florida, 2002, Assistant Professor — biogeography, land use land cover, remote sensing, geographic information systems
Benjamin Franek, Ph.D., University of Connecticut, 2013, Assistant Professor — surface hydrology, watershed management, environmental conservation
Jennifer J. Haney, Ph.D., University of South Carolina, 2010, Assistant Professor — risks and hazards, geography of terrorism, emergency management, regional geography
John G. Hintz, Ph.D., University of Kentucky, 2005, Professor — human geography, environmental studies, sustainable agriculture
Sandra J. Kehoe-Forutan, Ph.D., University of Queensland, 1991, Professor — urban geography, city and regional planning
Brett T. McLaurin, Ph.D., University of Wyoming, 2000, Professor — stratigraphy, sedimentology, geoarchaeology
Michael K. Shepard, Ph.D., Washington University, 1994, Professor — geophysics, planetary geology, remote sensing
Adrian Van Rythoven, Ph.D., University of Toronto, 2012, Assistant Professor — mineralogy, petrology, economic geology
Cynthia Venn, Ph.D., University of Pittsburgh, 1996, Professor — oceanography, marine geology, aqueous geochemistry
Jennifer Whisner, Ph.D., University of Tennessee, 2010, Associate Professor — groundwater hydrology, surface hydrology
Stephen C. Whisner, Ph.D., University of Tennessee, 2005, Associate Professor — structural geology, mineralogy, petrology
Danqing (Dana) Xiao, Ph.D., University of California, Santa Barbara, 2013, Assistant Professor — map use, cartography, cultural geography, geographic information systems

CALIFORNIA UNIVERSITY OF PENNSYLVANIA

DEPARTMENT OF EARTH SCIENCES

DATE FOUNDED: 1927

DEGREES OFFERED: B.A., B.S.

CHAIR: Swam Gill, Ph.D.

DEPARTMENT ACADEMIC PROGRAM

COORDINATORS: Susan Ryan (Geography: Tourism), Thomas Mueller (Geography: GIS and Emergency Management), Thomas Wickham, Candice Riley, and John Confer (Parks and Recreation Management), Mario Majcen, Chad Kauffman and Swarndeep Gill (Meteorology), Kyle Fredrick, Daniel Harris and BJ Arnold (Geology)

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Swam Gill, Associate Professor and Chair, Department of

Earth Sciences, 236 Eberly Science & Technology Center, 250 University Ave., California University of PA, California, Pennsylvania 15419. Telephone (724) 938-4180. Fax (724) 938-5780. Email: gill@calu.edu.

PROGRAMS AND RESEARCH FACILITIES:

GIS and Emergency Management Concentration. The GIS and Emergency Management Concentration option provides a basic grounding in emergency management concepts and techniques, and is supplemented by courses combining geographic knowledge with advanced technological information in remote sensing, hazards research, and advanced geographic information systems. This academic program provides the freedom to develop geographical skills through the traditional lecture/discussion format and through hands-on experience. This concentration will prepare students for continued studies in graduate school or employment in governmental and private emergency management positions, with disaster relief organizations, or with the Department of Homeland Security. The courses in the concentration follow guidelines suggested by the International Association of Emergency Managers. Emergency Management and GIS are multidisciplinary fields of study as indicated by the recommended coursework. Valuable real-world experience will be gained from internships with emergency management and disaster relief organizations.

Tourism Program. The tourism program at California University of Pennsylvania has a comprehensive teaching, research and service agenda within the discipline. Within the context of the institutional mission of California University of Pennsylvania the Bachelor of Arts in Geography, *Travel and Tourism Concentration* seeks to build the characters and careers of students through a commitment to academic excellence. The focus of the program is developing a responsive approach to the needs of the tourism industry both domestically and internationally, by encouraging students to develop both a constructive and critical understanding of the global tourism industry and the wider social, cultural, economic, and environmental contexts in which it operates.

Research Facilities. Courses are taught in a new computer lab/classroom developed by the Earth Sciences department for tourism and geographic information sciences called The Tourism and Geography Information Facility. The department has recently developed the Cal U Crime Mapping Center, a state-of-the-art facility that includes high-end computers with cutting-edge GIS, sub-meter accuracy GPS units, and remote sensing software, providing students with technological skills that are currently in high demand. Students will participate in research projects and through laboratory work, thus gaining experience beyond the standard lecture/discussion instruction.

Meteorology Concentration. The Meteorology Concentration closely follows the guidelines of the American Meteorological Society (AMS) providing students with a core of courses which will enable students to pursue a variety of options into Government, Private, and Graduate opportunities. Many of the Meteorology courses are applied in nature, focusing on research applications. Research is conducted in a dedicated computing facility within the department. The computing facility houses a myriad of hardware in a predominantly dual-boot environment (LINUX/Windows). Data are interrogated through the UNIDATA Suite of software and data feed. Specifically, McIDAS, GEMPAK, and IDV are the foci of tools integrated into the laboratory setting. Moreover, an additional media facility is available in the department for Broadcast-oriented students. The media facility houses hardware dedicated to WSI graphics for use on CUTV New Center. Video editing software is also utilized for webcasting from the media lab.

Geology Program The geology program provides opportunities to learn geological principles and historical perspectives, become familiar with methods of geological research, acquire lab and field experience, and obtain analytical skills necessary to work

independently or as part of a team. Students are prepared for careers working at geological field sites related to resource extraction or environmental remediation, or in geological and engineering laboratories and businesses.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System, Applications for admission and/or financial aid should be made to the Admissions Office at 724-938-4404.

FACULTY:

BJ Arnold, Ph.D., Kent State University, 2014, Assistant Professor — Glacial Landforms and Sediment
John J. Confer, Jr., Ph.D., Pennsylvania State University, 1997, Associate Professor — Outdoor Recreational Planning, Social Impacts of Recreation and Geo-Spatial Technology
Kyle C. Fredrick, Ph.D., University of Buffal, The State University of New York, 2008, Professor — Hydrogeology and Analytic Element Groundwater Modeling
Swarndeep S. Gill, Ph.D., University of Wyoming, 2002, Associate Professor and Chair — Physical Meteorology, Radar Analysis and Interpretation
Daniel Harris, Ph.D., West Virginia University, 2011, Assistant Professor — Structural Geology, Tectonics, and Geochronology
Chad M. Kauffman, Ph.D., University of Nebraska-Lincoln, 2000, Associate Professor — Applied Climatology, Synoptic Meteorology
Mario Majcen, Ph.D., Pennsylvania State University, 2009, Assistant Professor — Mesoscale Meteorology and Numerical Modeling
Thomas R. Mueller, Ph.D., University of Illinois, 1999, Professor — Geo-Spatial Technology, Humanitarian Mapping and Geography Applications in Foreign Policy
Candice Riley, Ph.D., West Virginia University, 2013 — Outdoor Recreation and Land Use Planning
Susan D. Ryan, Ph.D., University of Calgary, 2005, Professor — Tourism Planning and Development, Qualitative Methods, Marketing Geography
Thomas D. Wickham, Ph.D., Pennsylvania State University, 2000, Professor — Recreational Planning, Social Impacts of Recreation, Geo-Spatial Technology

EDINBORO UNIVERSITY OF PENNSYLVANIA

DEPARTMENT OF GEOSCIENCES

DATE FOUNDED: 1945

DEGREES OFFERED: B.A., B.S.

MAJORS: 130

CHAIR: Brian Zimmerman

DEPARTMENT ADMINISTRATIVE ASST: Penny Tingley

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Brian Zimmerman, Chair, Department of Geosciences, Edinboro University of Pennsylvania, Edinboro, PA, 16444. Telephone (814) 732-2529. Fax (814) 732-1691. Email: bzimmerman@edinboro.edu. Internet: <http://www.edinboro.edu> Search keyword: [Geosciences](#)

PROGRAMS AND RESEARCH FACILITIES: The Department offers a traditional B.A. degree in Geography and a B.A. in Geography with Concentrations in either Environmental Studies or Urban and Regional Planning. The Department also offers a B.S. degree in Geology and a B.A. in Earth Science. Courses cover a variety of regional and topical subjects in geography, environmental studies, urban / regional planning, and the earth sciences. Facilities include a GIS and cartography laboratory, a weather station, and a

tree-ring laboratory. The department has a collection of topographic and other maps, aerial photographs, journals, and books. The University Library has over 400,000 volumes plus 1.5 million microform units. Major research universities and libraries in Pittsburgh, Cleveland, and Buffalo are within 100 miles of the campus.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system, plus summer sessions. For admissions information contact the Admissions Office. For financial aid information contact the Financial Aid Office.

FACULTY:

Richard Deal, Ph.D., South Carolina, 2000, Assistant Professor — cartography, GIS
Karen Eisenhart, Ph.D., Colorado, 2004, Associate Professor — physical geography, biogeography
Baher A. Ghosheh, Ph.D., SUNY - Buffalo, 1988, Professor — cultural geography, international trade, Middle East
David W. Hurd, Ph.D., Cleveland State, 1997, Professor — atmospheric and space science
Wook Lee, Ph.D., Ohio State, Assistant Professor — urban and transportation geography, urban and regional planning, GIS, and spatial analysis / quantitative methods
Kerry A. Moyer, Ph.D., Penn State, 1993, Professor — meteorology, climatology
Laurie A. Parendes, Ph.D., Oregon State, 1997, Professor — environmental issues, biogeography, water resources
Joseph F. Reese, Ph.D., Texas at Austin, 1995, Professor — structural geology
Eric Straffin, Ph.D., Nebraska, 2000, Professor — quaternary geology, sedimentology
Tamara Misner, Ph.D. University of Pittsburgh, 2014, Assistant Professor — hydrogeology, geomorphology
Dale Tshudy, Ph.D., Kent State, 1993, Professor — invertebrate paleontology
Brian S. Zimmerman, Ph.D., Washington State, 1991, Professor and Chair — economic geology

IUP – INDIANA UNIVERSITY OF PENNSYLVANIA

DEPARTMENT OF GEOGRAPHY AND REGIONAL PLANNING

DATE FOUNDED: 1928

GRADUATE PROGRAM FOUNDED: 1958

DEGREES OFFERED: B.A., B.S. (Regional Planning and Social Science Education), M.S.

GRANTED 9/1/17-8/31/18: 30 Bachelors, 8 Masters

NUMBER OF STUDENTS: 130 Majors, 24 Masters

CHAIR: John E. Benhart, Jr.

DEPARTMENT SECRETARY: Melissa Bair

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Ms. Melissa Bair, Admissions Information, Dept. of Geography and Regional Planning, IUP, Indiana, PA 15705. Telephone (724) 357-2250. Fax: (724) 357-6479. Email: mbair@iup.edu. Internet: www.iup.edu/georegionalplan/

PROGRAMS AND RESEARCH FACILITIES: Department faculty and the institution are dedicated to quality personalized education. Emphasis is placed on student-faculty interaction on research and community projects. Programs are designed to prepare geographers to enter government service, business or industry, including water resource management, utility infrastructure systems, and local planning studies. Planners are prepared for positions in

local, regional and state agencies. Social science educators are prepared for secondary schools. All programs focus upon the tools, techniques, and substance of the field. Graduates experience a high rate of placement success in planning offices, engineering firms, and for government agencies following graduation.

Undergraduates major in Geography (specializations in Environment/Energy, Geographic Information Science & Geospatial Techniques, and Human Geography), or Regional Planning (specializations in Community Planning and Environmental Planning). A strong internship program directed by department faculty offers numerous public, private, and nonprofit placements in industry, engineering, conservation, land management, and planning agencies at the local, state, and federal levels. Because of employment demand for students from department programs, approximately 80 percent of internship placements are paid positions. Education majors begin clinical experience in the sophomore year.

The department offers M.S. student tracks in regional planning, GIS/cartography, or environmental planning. Selected courses in related fields, independent research, and internship credits may be applied toward a Masters degree. Thesis and non-thesis options are available. A portfolio is required of non-thesis students.

Department resources, which include the James Payne/Ruth Shirey Geographic Information Science Laboratory, the Robert Begg/Charles Weber Planning Design Laboratory/Studio, and the Dey Whit Watts Planning Studio offer access to spatial analysis and planning design equipment and applications. These well-equipped laboratories and studios house and leverage 50 workstations, large-format plotters, global positioning systems (GPS) units and a base station, small unmanned aerial systems (sUAS) aircraft, total station survey equipment, a weather station, and hydrologic and atmospheric monitoring devices. Geographic Information Systems (GIS), image processing, geovisualization, planning design, and computer-aided drafting (CAD) software includes the ArcGIS suite, the Adobe Creative Suite, AutoCAD, DroneDeploy UAS, ERDAS Imagine, Google SketchUp, MapInfo, and Trimble GPS Pathfinder Office and TerraSync.

Recent faculty research papers and publications have examined resource extraction patterns and impacts in Pennsylvania, planning policy and implementation in rural communities, economic development, Eastern Europe, Africa, environmental planning, geographic information systems applications, regional input-output analysis, cultural landscapes, and geographic education. Departmental faculty serve in various capacities in the Association of American Geographers, Pennsylvania Planning Association, Pennsylvania Geographical Society, and the National Council for Geographic Education. Faculty play a fundamental role in state GIS projects. Student employment is often available for student participation in faculty research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: IUP has two 14-week semesters during the regular academic year and two five-week sessions in the summer. Information on admission should be requested from the Admissions Office, IUP, Indiana, PA 15705. IUP's Financial Aid Office runs a program which has been recognized nationally for its excellence. IUP has been recognized in *Barron's*, *The New York Times* Education Editor, and *Changing Times Magazine* for offering quality education at an affordable cost. Geography Department-specific scholarships for secondary education, combined programs in geography and mathematics, and performance are offered. Geography or Planning students scoring above 1150 on SAT may be eligible for tuition waivers.

GRADUATE: The graduate program is open to qualified students holding a bachelor's degree from an accredited college or university.

Graduate Record Examination scores are required for admission. Students anticipating application should strive for a 3.0 QPA or better in the junior and senior years. Graduate assistantships, employment opportunities, and loans comprise the financial aid packages. Assistantships and employment are available in the Department and various research offices at IUP.

FACULTY:

John E. Benhart, Jr., Ph.D., Tennessee, 1995, Professor — GIS, conservation, land use, urban, transportation
Donald W. Buckwalter, Ph.D., Tennessee, 1988, Professor — economic development, regional, map and photo development, retail, transportation, former Soviet Union
Sudeshna Ghosh, Ph.D., Cincinnati, 2013, Assistant Professor — economic development, community planning, planning methods and analysis
Richard J. Hoch, Ph.D., West Virginia, 2005, Associate Professor — land use planning, regional economic development, environmental planning, remote sensing, GIS
Calvin O. Masilela, Ph.D., Virginia Polytechnic, 1989, Professor — Africa, land use policy, planning theory, urban planning, planning techniques
Brian W. Okey, Ph.D., University of Guelph, 1999, Professor — environmental, water resources
Kevin J. Patrick, Ph.D., North Carolina, 1995, Professor — economic, urban, transportation, cartography
Christopher Schaney, Ph.D., West Virginia, 2010, Assistant Professor — energy, environmental, remote sensing
Gail S. Sechrist, Ph.D., Louisiana State, 1986, Professor — cultural-historical, U.S. and Canada, religion
Robert P. Sechrist, Ph.D., Louisiana State, 1986, Professor — cartography, spatial diffusion, GIS
Jennifer Smith, Ph.D., West Virginia University, 2015, Assistant Professor — developing world urbanization and development, land use/land cover analysis, remote sensing
D. Whit Watts, Ph.D., Virginia Polytechnic, 1995, Assistant Professor — land use planning, design, theory, land use law
Stacey Patrick, Ph.D., Kent State, 2016, Instructor — cultural geography, political geography

EMERITI FACULTY:

Robert B. Begg
Joseph Bencloski
Susan E. Forbes
Vincent P. Miller, Jr.
D. Whit Watts

KUTZTOWN UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1961

DEGREES OFFERED: B.A. in Geography, B.S. in

Environmental Science/Geography

GRANTED 7/01/17 - 5/12/18: 81 B.A. degrees, 5 B.S. degrees

MAJORS: 59

CHAIR: Richard S. Courtney

DEPARTMENT SECRETARY: Dorothy J. Siravo

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Chair, Department of Geography, 105 Graduate Center, Kutztown University, Kutztown, Pennsylvania 19530. Telephone (610) 683-4364 Fax (610) 683-4941. E-mail: courtney@kutztown.edu. Information at: www.kutztown.edu/geography

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers a Bachelor of Arts degree in four tracks: general,

environmental, globalization and planning as well as a Bachelor of Science degree in Environmental Science/Geography. The Department houses a number of facilities to support instructional and research activities of students and faculty. The GIS/Computer Cartography laboratory is a state-of-the-art facility where students may work with the major GIS, remote sensing, statistics, and business graphics software packages. Research opportunities include major urban areas, unique rural cultures, sustainable agricultural environments, geographic information systems, and planning. An internship is required in the environmental and planning tracks, and for the B.S. Environmental Science/Geography track, offering students the opportunity to attain real-world experience.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Kutztown University operates on the semester system. Two five-week summer sessions provide students an opportunity to accelerate their program. The Director of Admissions should be contacted for further information on admission and financial aid. The Carrie Babb Scholarship is offered by Kutztown University Department of Geography to recruit and retain geography majors that demonstrate excellence in academic ability and achievement. Available scholarship funds are divided among chosen recipients, who must register as full-time students. More information and application at www.kutztown.edu/geography/scholarships

FACULTY:

Mario L. Cardozo, Ph.D., University of Texas at Austin, 2013, Assistant Professor — Human-environment interactions, conservation, GIS, remote sensing, Latin America
Moirá Conway, Ph.D., CUNY Graduate Center, 2014, Assistant Professor — Economic geography, GIS, transportation, urban issues
Richard S. Courtney, Ph.D., Ohio State University, 1993, Associate Professor and Chair — physical, cartography, research methods, urban
Michael A. Davis, Ph.D., Ohio State University, 2011, Assistant Professor — physical, atmospheric science, meteorology, weather analysis, climatology
Mathias Le Bossé, Ph.D., University of Wisconsin at Madison, 2000, Associate Professor — cultural geography, political, human and regional, Europe
Steven M. Schnell, Ph.D., University of Kansas, 1998, Professor — cultural, Africa, North America, globalization, local foods and economies

ADJUNCT FACULTY

Mr. Matthew West, M.S. Temple University, 2005, Instructor — GIS, transportation planning

LEHIGH CARBON COMMUNITY COLLEGE

COMPUTER SCIENCE DEPARTMENT

DATE FOUNDED: 1966

DEGREES OFFERED: Geospatial Technology A.A.S.,

Geographic Information Systems Certificate

MAJORS: Geospatial Technology, Geographic Information Systems

CHAIR: Joyce Thompson

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Joyce Thompson, E-mail: jthompson@lccc.edu. Credit catalog, see <http://www.lccc.edu/academics/lccc-credit-catalog>. Program pages, see <http://www.lccc.edu/academics/school-computer-science-and-arts/computer-science-division/geographic-information-system-c> and <http://www.lccc.edu/node/3363>.

PROGRAMS AND RESEARCH FACILITIES: Our program is relatively new. All courses in the programs are available online, except Project Management.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: This is an open entry community college. Various forms of financial aid are available. Check the Website: <http://www.lccc.edu/financialaid>

FACULTY:

Joyce Thompson, M.Ed.

MILLERSVILLE UNIVERSITY

GEOGRAPHY DEPARTMENT

DATE FOUNDED: 1956

DEGREES OFFERED: B.A., B.S. in Education

GRANTED 9/1/16-8/31/17: 21 Bachelors

MAJORS: 60

CHAIR: Jessica J. Kelly

DEPARTMENT ADMINISTRATIVE ASST: Kristina Gorodensky

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Dr. Jessica J. Kelly, Chair, Department of Geography, Millersville University, P.O. Box 1002, Millersville, Pennsylvania 17551. Telephone (717) 871-7163. Fax (717) 871-7936.

E-mail: jessica.kelly@millersville.edu.

Internet: <http://www.millersville.edu/geography/>

PROGRAMS AND FACILITIES: The Millersville University Department of Geography, housed in the College of Science and Technology, offers a comprehensive program of study leading to the Bachelor of Arts degree in Geography. Graduates of the program have completed a liberal arts education that serves as the foundation for further academic study in disciplines addressing geographic, environmental, and international issues or for professional fields such as planning, public policy, law, and environmental management. Graduates of the program acquire technical and communication skills that are suitable for direct entry employment positions.

Students may focus their study in geography by choosing from one of three concentrations: environmental studies, geospatial applications, and global studies. The environmental studies concentration encourages students to pursue study in traditional resource-based issues of air, water, energy and land resources. The geospatial applications concentration trains students to develop geographic skills in geographic information systems, remote sensing, quantitative methods, and cartographic design. The global studies concentration prepares students to address international and regional geographic issues, emphasizing people, communities, and culture. Regional specializations include Latin America, Europe, Africa, and North America.

The Geo-Graphics Lab is the teaching classroom for several of our courses and serves as the common study and work space for students in all geography courses and for scheduled group tutoring. The Geo-Graphics Lab also supports research projects of individual faculty as well as contract-based research. The Lab offers 17 PC work stations, global positioning system (GPS) hardware and software, a large-format plotter, and color and B&W printers. Instruction in all GIS-based courses utilizes the latest software, ArcGIS Pro. Students in GIS-based courses may be issued student licenses of the software for use on their own PC.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Millersville University operates on the semester

plan with three four- to five-week summer sessions. Contact the Director of Admissions for details on admission requirements and financial aid availability. The Geography Department's Geo-Graphics Lab employs students for a total of 30-40 hours per week.

FACULTY:

Angela Cuthbert, Ph.D., McMaster, 2002, Professor — transportation, land use, spatial analysis, community development, environmental issues, Africa

Ethan Frost, Ph.D., Delaware, 2011, Assistant Professor — ecohydrology, microclimatology, spatial analysis, water resources

Charles Geiger, Ph.D., Toronto, 1984, Associate Professor — environmental issues, energy, quantitative methods, mapping, computer skills, Pennsylvania

Jessica Kelly, Ph.D., Rutgers, 2009, Associate Professor — human dimensions of environmental change, migration, remote sensing, Latin America

Kathleen V. Schreiber, Ph.D., Delaware, 1996, Professor — environmental issues, bioclimatology, applied climatology, North America

Derek P. Shanahan, Ph.D., Minnesota, 1992, Professor — cultural geography, regional geography, social geography, Europe

THE PENNSYLVANIA STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1945

GRADUATE PROGRAM FOUNDED: 1946

DEGREES OFFERED: B.A., B.S., M.S., M.G.I.S., Ph.D.

GRANTED 6/1/17-5/31/18: 41 Bachelors, 37 Masters, 11 Ph.D.

STUDENTS IN RESIDENCE: 113 Undergraduate Majors, 10 Undergraduate Minors, 7 M.S., 32 Ph.D., 2 Postdoctoral Scholars

NOT IN RESIDENCE: 535 CPGIS and MGIS, 205 GEOINT, 22 RS

HEAD OF DEPARTMENT: Cynthia Brewer

DEPARTMENT ADMINISTRATIVE MANAGER: Denise Kloehr

FOR FURTHER INFORMATION WRITE TO: Jessica Perks, Department of Geography, 302 Walker Building, University Park, Pennsylvania 16802. Telephone (814) 865-3434. Fax (814) 863-7943. E-mail: grad@geog.psu.edu. Internet: www.geog.psu.edu.

PROGRAMS AND RESEARCH FACILITIES:

The Department of Geography offers a full range of baccalaureate and graduate degrees with diverse learning and research opportunities, on- and off-campus. The department offers concentrations in all four major subfields of geography: human, physical, environment and society, and GIScience. Across these subfields we emphasize the geography of global change. Our perspectives span local to global levels across spatial and temporal scales. Addressing these components of global change, we also advance geographical information science and technology needed to use new spatial data generated from combinations of specialized sensors and the Internet of things. Research and specialization clusters include: Environmental Change and Prediction; Food Security and Human Health; Geospatial Big Data Analytics; Justice, Ethics, and Diversity; Population, Environment, and Governance; Spatial Modeling and Remote Sensing.

The department hosts three major research centers. *The GeoVISTA Center* (with affiliate labs ChoroPhronesis, GeoInformatics and Earth Observation, and Friendly Cities) emphasizes geovisual analytics, social processes, immersive realities, remote sensing, and human interaction with geospatial information. Emphases in the *Center for Landscape Dynamics* are understanding the social and ecological factors that govern landscape resilience and inform decision-making in the northeastern US. *Riparia* conducts and coordinates interdisciplinary research, monitoring, and training on wetlands. Additional departmental labs include PLACE, Vegetation Dynamics, CLIM, HELIX, and GeoSyntheSES, as well as the Gould Center. Departmental research labs and centers are described at www.geog.psu.edu/research/research-centers-and-labs.

The Department of Geography benefits from close ties to the University Office of Global Programs, the Penn State Institutes of Energy and the Environment (IEE), the Earth and Environmental Systems Institute (EESI), the Social Science Research Institute (SSRI), the Institute for CyberScience (ICS), the Rock Ethics Institute, and the Population Research Institute. We participate in dual-degree and intercollege graduate programs in Women's, Gender, and Sexuality Studies; Ecology; Climate Science; Demography; and African Studies. The department occupies excellent facilities on a beautiful campus and provides office and lab spaces for resident graduate students. In addition to the resources typical of a top-ranked major research university, the department maintains multiple computing facilities in support of its research and instructional missions. The department employs information technology specialists, and equipment and software are regularly updated.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: The University follows the 15-week semester system with one four-week and two six-week summer sessions. Based on high school performance, SAT scores, and advanced standing, students are admitted to the University Park campus (in State College) or to one of nineteen other campuses. All geography degrees are completed with junior and senior years at University Park campus, with many students becoming majors when they relocate to University Park. The University participates in all federal and state financial aid programs; scholarships and loans are available at the college level. Degrees are awarded in the College of Earth and Mineral Sciences in geography (B.A. or B.S.) with certificates in climate and environmental change; environment and society; geographic information science; geospatial big data analytics; global environmental systems; justice, ethics, diversity in space; landscape ecology; and landscapes: societies, cultures, and political economies. The program offers minors in geography, geographic information science, climatology, environmental inquiry, information science and technology for earth and mineral sciences, watersheds and water resources. The department also participates in concurrent majors; honors programs; and interdisciplinary programs such as the Bachelor of Philosophy, Letters Arts and Sciences, and Earth Sciences. All majors are encouraged to participate in one- or two-semester study abroad programs or shorter international study/research experiences. Students may earn academic credit for approved internships in government agencies, private firms, and university teaching and research. Capable undergraduate students benefit from close instructional and research interaction with graduate students and faculty. Detailed information about undergraduate programs is available at www.geog.psu.edu/degree-programs/undergraduate-degrees or by contacting Jodi Vender at advising@geog.psu.edu.

Professional: The department offers online certificate and master's degree programs in Geographic Information Systems (GIS), Remote Sensing and Earth Observation (RS), and Geospatial Intelligence (GEOINT) to meet the needs and busy schedules of full-time professionals who are able to study only part-time and at a distance. With more than a century of commitment to outreach and distance education, Penn State is also a leader in the use of information

technology in higher education. Since 1998 the University has offered an array of certificate and degree programs tailored to meet the needs of adult professional students through the World Campus at www.worldcampus.psu.edu. The Department of Geography's certificate program in Geographic Information Systems (CPGIS) is a 12-credit post-baccalaureate program that helps students become more skillful and knowledgeable GIS users. The graduate certificate program in Remote Sensing and Earth Observation is a 12-credit program for GIS practitioners who lack formal education in technologies and methods associated with remote sensing, image analysis, and terrain modeling. Two graduate certificates in Geospatial Intelligence (GEOINT) require 14-credits and support current as well as aspiring analysts whose responsibilities include planning for emergencies, coordinating responses to natural and human-induced disasters, and planning and conducting national security actions. The Master of GIS (MGIS) degree is a 36-credit program for those who seek leadership roles in the geospatial profession. The certificate and MGIS programs follow an accelerated schedule of five ten-week terms per year designed to support adult learners who are working full-time while completing their studies. All courses are instructor-led and are offered through the University's web-based course management system. See the department's online geospatial education program gateway at: gis.e-education.psu.edu

Resident Graduate: The department has minimal course requirements for the resident graduate program. Programs are individually designed to suit personal needs and professional aims, and range from largely course work to largely tutorial and seminar formats. Program emphases are well reflected in faculty specializations listed below. Work outside geography is strongly encouraged. The department participates in interdisciplinary graduate programs in African studies, ecology, human dimensions of natural resources and the environment, and women's, gender, and sexuality studies. Applicants must submit GRE scores and have a junior-senior GPA over 3.0 (A=4.0). Teaching and research assistantships carry a competitive semester stipend plus tuition, health benefits, and fees. Fellowships and employment opportunities are available. A thesis or two research papers are required of M.S. candidates; Ph.D. students must complete a minimum of one academic year in residence beyond the M.S. degree. An accelerated five-year M.S. to Ph.D. program is also offered. Detailed information about the graduate programs is available at www.geog.psu.edu/degree-programs/graduate-degrees.

STATEMENT ON RIGHTS AND COMMUNITY:

Penn State Geography is a diverse and inclusive community with representation from many countries, racial and ethnic groups, and perspectives. Our research and teaching activities embrace this diversity because it is our source of strength that also advances the goals of a pluralistic society and integrated world. Penn State Geography recognizes the value of new knowledge and the role of science in advancing human and planetary well-being. Our central mission is to advance knowledge and the human condition. We remain committed to making the world a better place for all.

RESIDENT PROGRAM FACULTY:

Clio M. Andris, Ph.D., MIT, 2011, Assistant Professor — GIS, social networks, interpersonal relationships, flow data, urban planning
Jennifer Baka, Ph.D., Yale, 2012, Assistant Professor — energy geography, political ecology, industrial ecology, governance
Cynthia A. Brewer, Ph.D., Michigan State, 1991, Professor and Head of Department — cartographic communication and visualization, map design, color theory, multi-scale mapping, atlas production
Andrew M. Carleton, Ph.D., Colorado, 1982, Professor — climatology, synoptic climatology, climate dynamics, climate impacts of aviation contrails, human impacts on climate, climate variability and change, land surface-climate interactions, polar climatology, polar lows, Southern Ocean, Antarctica

Guido Cervone, Ph.D., George Mason University, 2005, Associate Professor and Associate Director of the Institute for CyberScience — remote sensing, environmental hazards, geoinformatics, social media, spatial statistics, complex economic systems

Robert G. Crane, Ph.D., Colorado, 1981, Professor and Associate Vice Provost for Global Programs — climatology, regional scale climate change, African climates

Lorraine Dowler, Ph.D., Syracuse, 1997, Associate Professor and Associate Head of Undergraduate Programs — social theory, cultural geography, gender, qualitative methods

Roger M. Downs, Ph.D., Bristol, 1970, Professor — spatial cognition, cognitive development, geography education, behavioral geography

William E. Easterling, Ph.D., North Carolina, 1984, Professor and Director for the NSF Directorate for Geosciences — environmental change, agricultural systems, climate, renewable natural resources, land use

Christopher Fowler, Ph.D., University of Washington, 2007, Associate Professor — inequality, population, scale, economic, urban, race, segregation

Joshua F. J. Inwood, Ph.D., University of Georgia, 2007, Associate Professor — social and racial dimensions of human vulnerability, global ethics

Brian King, Ph.D., University of Colorado-Boulder, 2004, Associate Professor and Associate Head of Resident Graduate Programs — development, conservation, Southern Africa, cultural and political ecology, health, livelihoods, justice

Alexander Klippel, Ph.D., Bremen, 2003, Professor — 3D modeling, virtual and augmented reality, geographical information science, spatial languages, geographic event conceptualization, behavioral research methods

Alan M. MacEachren, Ph.D., Kansas, 1979, Professor and Director of GeoVISTA Center — visual analytics, geovisualization, geographic information retrieval, place & big data

Lise K. Nelson, Ph.D., University of Washington, 2000, Associate Professor of Women's, Gender, and Sexuality Studies and Geography — qualitative methods, political and feminist geography, neoliberal globalization, citizenship belonging and identity, Mexico and the United States, migration and labor

Bronwen Powell, Ph.D., McGill University, 2012, Assistant Professor of Geography and African Studies and Anthropology — social, cultural, and environmental drivers of diet quality and food security; relationships between biodiversity and human nutrition

Anthony Robinson, Ph.D., Penn State, 2008, Assistant Professor and Director of Online Geospatial Education Programs — geovisual analytics, cartography, user-centered design, geovisualization, information visualization

Erica A. H. Smithwick, Ph.D., Oregon State, 2002, Professor and Director of the Ecology Institute — landscape ecology, ecosystem ecology, biogeochemistry, fire ecology

Alan H. Taylor, Ph.D., Colorado, 1987, Professor — disturbance and climate effects on vegetation, landscape ecology, biogeography, biological conservation, environmental management, fire ecology, paleoecology

Melissa W. Wright, Ph.D., Johns Hopkins, 1997, Professor of Geography and Women's, Gender, and Sexuality Studies (WGSS) and Head of Department of WGSS — social theory, feminist theory, political economy, Mexico-U.S. border, qualitative methods

Karl S. Zimmerer, Ph.D., UC-Berkeley, 1988, Professor — land use and agriculture change; environmental impacts (biodiversity, soils, water); economic development; nature-society theory; human-environment modeling

EMERITI FACULTY:

Ronald F. Abler, Ph.D., Minnesota, 1968

Robert P. Brooks, Ph.D., Massachusetts, 1980

Rodney A. Erickson, Ph.D. University of Washington, 1973

Deryck W. Holdsworth, Ph.D., British Columbia, 1981

Donna J. Peuquet, Ph.D., SUNY Buffalo, 1977

Lakshman Yapa, Ph.D., Syracuse, 1969

Brent Yarnal, Ph.D., Simon Fraser, 1982

RESEARCH AND AFFILIATE FACULTY:

Larry Gorenflo, Ph.D., University of California, Santa Barbara, 1985, Professor of Landscape Architecture and Geography — biodiversity conservation, cultural ecology, East Africa, Latin America, Southeast Asia

Stephen A. Matthews, Ph.D., Wales, 1990, Professor of Sociology, Anthropology, Demography, and Geography and Director of the Graduate Program in Demography — demography, health and well-being, geographic information systems, multi-method research

Douglas A. Miller, Ph.D., Penn State, 1999, Research Professor and Director of the Center for Environmental Informatics, Earth and Environmental Systems Institute — remote sensing, geographic information science, landscape ecology, soils, geomorphology

Mike Nassry, Ph.D., Virginia Tech, Assistant Research Professor, Riparia — wetland hydrology, wetland condition assessments, climate change impacts on wetland structure and function

Hari M. Osofsky, Ph.D., University of Oregon, Dean of Penn State Law and the School of International Affairs; Distinguished Professor of Law; Professor of International Affairs and Geography

Denice Wardrop, Ph.D., Penn State, 1997, Research Professor and Director of Riparia — landscape ecology, wetland plant communities, effects of human disturbance on wetland ecosystems, wetland condition assessment

ONLINE PROGRAM FACULTY, DUTTON E-EDUCATION INSTITUTE:

Todd Bacastow, Ph.D., Penn State, 1992, Professor of Practice and Director of Geospatial Intelligence Programs — GIS, geospatial intelligence, geospatial analytic methods

Ryan Baxter, M.S., Penn State, 1999, Associate Teaching Professor — geographic information systems, cloud and server technology, environmental applications

Justine Blanford, Ph.D., Imperial College, Associate Teaching Professor — spatial analysis, spatial and temporal ecology of disease

James Detwiler, M.S., University of Delaware, 1999, Assistant Teaching Professor — GIS programming and customization, climatology, distance education

Adrienne Goldsberry, M.S., UC-Santa Barbara, Assistant Teaching Professor and GIS Certificate Program Advisor — geographic information systems, urban planning, distance education

Fritz Kessler, Ph.D., University of Kansas, 1999, Associate Teaching Professor — projections, datums, coordinate systems, cartography

Elizabeth King, M.Ed., Penn State, 2003, Assistant Teaching Professor and Assistant Program Manager for Online Geospatial Education — geographic information systems, adult education, problem-based learning

Karen Schuckman, MGIS, Penn State, Assistant Teaching — remote sensing, geospatial technology, photogrammetry

Gregory A. Thomas, Ph.D., Indiana University of Pennsylvania, 2014, Assistant Teaching Professor and Assistant Director of Geospatial Intelligence Programs — intelligence analysis, law enforcement

Michelle Zeiders, M.S., Shippensburg University, Assistant Teaching Professor — geographic information systems, spatial databases, environmental applications

Additional part-time faculty teaching in Penn State geospatial online programs listed at https://gis.e-education.psu.edu/we_are/faculty

SHIPPENSBURG UNIVERSITY OF PENNSYLVANIA

DEPARTMENT OF GEOGRAPHY-EARTH SCIENCE

DATE FOUNDED: 1934

GRADUATE PROGRAM FOUNDED: 1976

DEGREES OFFERED: B.S. in Geography, B.S. in
Geoenvironmental Studies, B.S. in Sustainability, M.S. in
Geoenvironmental Studies

GRANTED 9/1/16-8/31/17: 62 Bachelors, 9 Masters

STUDENTS IN RESIDENCE: 120 Undergraduates, 19
Masters

CHAIR: William Blewett

DEPARTMENT ADMINISTRATIVE ASST: Tammy
Myers

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chair, Geography-Earth Science Department, 1871 Old Main
Dr., Shippensburg University of Pennsylvania, Shippensburg,
Pennsylvania 17257-2299. Telephone (717) 477-1685. Fax (717) 477-
4029. E-mail: TLMyers@ship.edu. Internet: www.ship.edu/Geo-ESS/.

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE: The department has three programs of study: the liberal arts Geography program, the Geo-environmental Studies program, and the Sustainability program. The Geography program provides the student with a core course program which includes physical geography, economic geography, geographic information systems, and urban geography or land use. Two tracks can be emphasized in the program. *Land Use* investigates the human use and modification of natural environments (e.g. deforestation, urban sprawl, extension of impervious surface areas, soil erosion and degradation, salinization, and desertification) that impact our access to resources, and ultimately our own health and safety. *Geographic Information Systems* (GIS) gives the student a set of skills in GIS, cartography, computer mapping and graphics, image interpretation, and remote sensing that can be applied to the broader discipline.

The Sustainability program is part of a larger campus-wide commitment to sustainable practices. Campus sustainability encompasses facilities, energy, food services, waste management, finances, purchasing, and lifestyle choices. Students in the Sustainability major will learn how these concepts are applied at the local, regional, national, and international level. While the degree is housed in the Geography-Earth Science department, sustainability is an interdisciplinary topic and the degree requirements reflect this concept. Students will take sustainability courses in Earth and Environmental Science, Human Geography, Biology, Economics, Business, Psychology, Sociology, History, Communication, and English. Additionally, students will develop practical skills through classes in GIS, cartography, statistics, and field techniques.

The Geoenvironmental Studies program integrates the study of the physical and cultural aspects of the environment into a meaningful framework to solve environmental problems. This program is a science-based curriculum designed to produce broadly trained scientists with a holistic understanding of the environment, with an emphasis on geo-technology and practical field experience. An internship is required, as discussed below. A 12-credit GIS certificate program is also offered by the department, as well as a GIS minor.

GRADUATE: The graduate Geoenvironmental Studies Program is designed to prepare planners, researchers, and educators with a broad understanding of the environment and with the technical and managerial skills of problem-solving. Instead of the more focused, traditional single-science approach, this academic degree draws upon the interactions of the disciplines of geography and the earth sciences

to prepare the geoenvironmental scientist. Namely the geographic expertise is in the form of environmental relations, land use, locational analysis, resources, and regional knowledge; the earth science expertise is in the form of the applied aspects of geology, meteorology, hydrology, and soil science. A GIS-environmental science and planning emphasis is available in the department.

This specialization prepares graduates for positions at the operational and policy-making levels in federal, state, and local governmental agencies, industry, non-profit organizations, and consulting firms, as well as for higher levels of education and doctoral work in this field. A thesis or internship and research project is required for graduation.

Graduate students majoring in Geoenvironmental Studies have the opportunity to experience an internship as part of their graduate course work. Many employers consider internships important for personnel recruitment, and many internships develop into full-time jobs after graduation. The main objectives of the Geoenvironmental Studies Internship Program are the following: the student intern will be exposed to the real problems and activities of the community from the perspective of the work organization where he/she is placed; the student intern ideally will be introduced to central activities and projects of the sponsoring organization; the student will have the opportunity and the responsibility for completing a worthwhile project; and the student will have the opportunity to apply geographic and environmental theory, techniques, and knowledge to real-life practices.

INTERNSHIPS AND EMPLOYMENT: Geoenvironmental Studies majors have received internships with a variety of governmental and private agencies. The Pennsylvania Department of Environmental Protection, the Pennsylvania Department of Conservation and Natural Resources, and the Pennsylvania State Game Commission have provided internships for our majors at the state level. Internship placements have also been arranged with the Natural Resource Conservation Service; Gannett Fleming, Inc., Skelly & Loy Consulting Firm; National Audubon Society; Chesapeake Bay Foundation; Tri-County Planning Commission; Franklin County Planning Commission; United States Geological Survey; The Nature Conservancy; KCI Technologies; Shippensburg Borough; Martin and Martin Consulting Firm; Lebanon County Solid Waste Authority; and environmental consultants. These internships have provided our students with practical experience to enhance their entrance into the job market.

Some of the positions obtained by our graduates and some of their employers include physical scientist with the federal government; environmental planner, Jefferson County, PA; conservationist, Dauphin County Soil Conservation District; PA Department of Conservation and Natural Resources; PA Department of Environmental Protection; KCI Technologies; PA Department of Transportation; GTS Technologies; Delta Development; United States Geological Survey; Gannett Fleming; Southern Maine Regional Planning Commission; Skelly & Loy Consulting Firm, Delta Airport Consultants, Inc., and as graduate students at universities such as North Carolina, Chapel Hill; the University of Tennessee; and Oklahoma University.

FACILITIES: The Department of Geography-Earth Science is housed in Shearer Hall. Facilities include a large GIS laboratory utilizing the latest ArcGIS software, a remote sensing laboratory utilizing ERDAS image processing software, data processing center, soils laboratory, hydrology laboratory, rock and mineral laboratory, microclimatological station, air photo and map library, and a wide range of field equipment and instruments for topographic, geologic, land use, meteorological, hydrologic, soil, and subsurface surveys. The department has a number of advanced GPS units, total stations, GPR, EM, and magnetometer units, air and water monitoring systems, aerial imagery platforms, and other integrated field technologies that are available for student use.

The Center for Land Use and Sustainability (CLUS), which is housed in the Department of Geography-Earth Science, supports science-based solutions to interdisciplinary sustainability challenges. The center has more than fifteen affiliated scientists, two full-time staff, and has expertise in: Geographic Information Systems; Global Systems Navigation Satellite; physical and environmental sciences; land use planning, economics, and transportation; applied history and archaeology; sustainable business practices; community sustainability; and grant writing and project management. Undergraduate and graduate students can become involved with the CLUS through grants, student-faculty research, and service learning programs.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: An applicant must meet the minimum standards of the Shippensburg University Graduate School and must have an undergraduate minimum of (a) 12 hours in geography, or 12 hours in the earth sciences, or a combined total of 18 hours in the two fields; or (b) 15 hours in the social sciences, including six hours of geography, and 15 hours in the natural sciences, including six hours in earth sciences. A student must have a 2.75 average on a 4.0 system or attain an acceptable score on the Graduate Record Exam for acceptance by the Graduate School. Conditional admission may be granted by the Departmental Graduate Faculty Committee for a student lacking the required level of entrance requirements. Full admission will be granted after the deficiencies have been corrected and six hours of graduate work successfully completed.

Each student will plan a program on an individual basis with the graduate faculty, ensuring a balanced natural/social science background. For graduation with a Master of Science degree in Geoenvironmental Studies, a student must complete 24 hours of core courses and electives in geoenvironmental courses, six hours of electives in the behavioral, social, or natural sciences, a six-hour internship or a Master's thesis, and pass a written comprehensive exam.

Graduate assistantships are available during the academic year and include waiver of tuition fees and carry stipends. Full-time students interested in appointments for the academic year should request applications from the Dean of the Graduate School or the Department Chair before March 1. Assistantships require two letters of recommendation, a statement of career goals and objectives, and graduate record examination scores are recommended.

FACULTY:

Mike Applegarth, Ph.D., 2001, Arizona State University, Associate Professor — soils, physical geography, remote sensing
William L. Blewett, Ph.D., 1991, Michigan State University, Professor and Chair — geology of national parks, North America, physical geology, glacial geomorphology, quaternary geology, landforms
Sean R. Cornell, Ph.D., 2008, University of Cincinnati, Associate Professor — geology, sedimentology, geophysics, coastal oceanography, environmental sustainability
Scott Drzyga, Ph.D., 2007, Michigan State University, Professor — GIS, economic geography, field techniques, glacial geomorphology
Alison E. Feeney, Ph.D., 2000, Michigan State University, Professor — computer cartography, GIS, North America
Thomas P. Feeney, Ph.D., 1997, University of Georgia, Professor — geomorphology, hydrology, karst, groundwater, geologic hazards
Kurtis G. Fuellhart, Ph.D., 1999, Pennsylvania State University, Professor — cultural geography, economic geography, regional development and analysis
Timothy W. Hawkins, Ph.D., 2004, Arizona State University, Professor — meteorology, climatology, hydrology
Russell C. Hedberg II, Ph.D., 2018, Pennsylvania State University, Assistant Professor — environmental sustainability, local food systems, agroecology, soils, human-environment theory

Claire A. Jantz, Ph.D., University Maryland-College Park, 2005, Professor — geographic techniques, land use, ecosystem science, regional planning
Paul G. Marr, Ph.D., 1996, University of Denver, Professor — geoarchaeology, historical, quantitative techniques, Latin America
George M. Pomeroy, Ph.D., 1999, University of Akron, Professor — urban geography, regional development and planning, land use, Asian studies
Janet Smith, Ph.D., 1999, University of Georgia, Professor — geography education, cartography, GIS
Kay Williams, Ph.D., 1995, University of Georgia, Associate Professor — conservation, sustainability, meteorology, physical geography, atmospheric issues
Christopher J. Woltemade, Ph.D., 1993, University of Wisconsin, Professor — hydrology, water resources management, soils, field techniques, fluvial geomorphology, environmental restoration
Joseph T. Zume, Ph.D., 2007, University of Oklahoma, Associate Professor — groundwater, field hydrology, geophysics

TEMPLE UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND URBAN STUDIES

DATE FOUNDED: 1961

GRADUATE PROGRAM FOUNDED: 1969

DEGREES OFFERED: B.A. in Geography and Urban Studies; B.A. in Environmental Studies; Undergraduate Certificate in Geographic Information Systems; M.A. in Geography and Urban Studies; Professional Science Master's (PSM) in Geographic Information Systems; Graduate Certificate in Geographic Information Systems; Ph.D. in Geography and Urban Studies

GRANTED 09/01/17-08/31/18: 13 Bachelors in Geography and Urban Studies; 26 Bachelors in Environmental Studies; 2 Masters of Arts in Geography and Urban Studies; 9 Master of Professional Science in GIS; 1 Ph.D. in Geography and Urban Studies

STUDENTS IN RESIDENCE: 157 Majors; 9 M.A.; 23 Professional Science Masters in GIS; 23 Ph.D.

CHAIR: Melissa R. Gilbert

DEPARTMENT ADMINISTRATIVE ASST: Maggie Cogswell

FOR FURTHER INFORMATION WRITE TO: Program Coordinator, Department of Geography and Urban Studies, Temple University, 308 Gladfelter Hall, 1115 West Berks Street, Philadelphia, PA 19122. Telephone (215) 204-7692. E-mail: guses@temple.edu. Internet: www.temple.edu/cla/gus

PROGRAMS AND RESEARCH FACILITIES: The department offers a Ph.D. and Masters degrees in Geography and Urban Studies, a Professional Science Master's (PSM) in GIS, a B.A. in Geography and Urban Studies, a B.A. in Environmental Studies, and Undergraduate and Graduate Certificates in GIS. Our curriculum focuses on four areas: Globalization, Sustainability, Social Justice, and Geographic Methods.

The Ph.D. program in Geography and Urban Studies trains students in interdisciplinary and spatially integrative frameworks and equips them with specialized skills to apply to real-world conditions. The complexity and pace of economic, environmental, and social change requires an integrative graduate program that provides students with students with a strong analytical foundation that stresses spatial relations, scale transitions, place and context, and nature societal

relations. The program prepares students for careers in institutions of higher education in the field of geography, urban planning, policy studies, and interdisciplinary international, environmental, and development programs, as well as in research-oriented organizations such as think tanks, policy institutes, and non-governmental organizations. The program draws on our Philadelphia location to provide students with opportunities to engage in public policy and applied research. Students can utilize our faculty's linkages with public agencies, educational institutions, community-based organizations, and social movements in the local region, many other regions in the United States, and several significant international locations including South and East Asia and Latin America.

The Ph.D. program requires 57 credit hours and admits students holding a bachelor's degree or master's degree in a related field. Up to 24 credits may be applied toward advanced standing to qualified Masters degree holders. To fulfill the degree requirements, students must complete coursework, pass a qualifying examination, write and defend a dissertation proposal, and then write and defend their dissertation.

The M.A. in Geography and Urban Studies program prepares students for further study and for careers in planning and public administration, environmental management, economic development, geographic systems management, community organizing and social change efforts, and academic careers. Throughout, emphasis is placed on the development of research techniques and analytical skills applicable to problem solving. Graduates find employment in public sector agencies that deal with environmental planning, land use, and urban and regional problems. They also work for quasi-public social service institutions that address various needs of urban residents as well as for private sector firms whose business requires an understanding of urban and spatial dynamics.

The M.A. program requires 36 credits and typically is completed in two years by full-time students. Part-time students also are accepted into our program—and most courses are offered during the evening, to accommodate students who work during the day. The department requires that every student produce a Masters Research Paper.

The Professional Science Master's in Geographic Information Systems (PSM in GIS) program is designed to train a highly competent workforce, ready to meet the demands of the job market in the non-profit, governmental, and private sectors. By coordinating with an advisory board of professionals in the field, we are building a program that meets current market needs and that will be adaptable to future industry needs.

The PSM in GIS program requires 30 credits and follows a year-long, full-time model that provides an intensive experience for student-professionals seeking to re-enter the workforce quickly. Students will also be able to complete the program part-time to ensure that working professionals are able to take advantage of this new degree program. The electives will allow students to specialize within their own respective areas of interest. The Capstone or Internship course provides students with a research project or industry experience, depending on their primary interests. All courses will emphasize practical skills such as project management, scientific writing, verbal communication, and presentation skills, as well as critical thinking.

The Department offers students close personal attention in fulfilling degree requirements and career planning; a state-of-the-art curriculum; opportunities for funded research and internships; a diverse faculty and student community; and opportunities to pursue interdisciplinary study. The program draws upon the interdisciplinary expertise of twenty-four faculty members. In recent years, members of the department have published books with leading publishers in the field including Oxford University Press, MIT Press, and Wiley and Routledge; contributed articles to leading geographical journals such as the *Annals of the Association of American Geographers*, The

Professional Geographer, and *Economic Geography* and interdisciplinary journals such as *Environment and Planning A*, *Cities*, *Journal of the National Cancer Institute*, *International Forestry Review*, *Remote Sensing of Environment*, and *Transfers: Interdisciplinary Journal of Mobility Studies*; and received competitive grants from the National Science Foundation, the National Institutes of Health, NASA, World Bank, the Environmental Protection Agency, the United Nations, the United States Information Agency, the Overseas Development Institute, the Inter-American Foundation, the American Institute of Indian Studies, and the Economic Development Agency.

The Department has recently opened a new GIS lab and studio for graduate students. Students have opportunities to work on departmental projects and have access to labs with GIS and cartography software in the department and across the College of Liberal Arts (all CLA machines, plus the University's Tech Center, are equipped with the relevant software). Graduate seminars are held within the department and outside speakers often are invited in. Some frequently used map, book, and journal resources are housed within the department; others are located in nearby Paley Library. All graduate assistants are provided with a computer, desk, and office space readily accessible to faculty offices and department facilities. All students in the Professional Science Masters in GIS are provided with a laptop and software.

An additional research facility, the Spatial Analytics Laboratory at Temple (SAL@T), is a university-wide core-facility in health geographics situated in and managed by the Department of Geography and Urban Studies.

The challenges and opportunities that face cities and metropolitan regions are central to the well being of billions of people around the globe. Our programs focus on understanding and analyzing such challenges and opportunities. It is truly a program for the 21st century.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Temple University is on a semester plan. Admission requirements for the Ph.D. program are available at: <http://bulletin.temple.edu/graduate/scd/cla/geography-urban-studies-phd>. Admission requirements for the M.A. program are available at: <http://bulletin.temple.edu/graduate/scd/cla/geography-urban-studies-ma/#admissiontext>. Admission requirements for the PSM in GIS are available at: <http://bulletin.temple.edu/graduate/scd/cla/geographic-information-systems-psm/#admissiontext>.

Financial Aid information may be obtained from the Office of Student Financial Services, at: www.temple.edu/sfs

FACULTY:

Max Andrucki, Ph.D., Leeds, 2011, Assistant Professor of Instruction and Internship Coordinator—social and cultural geography, sexuality, gender, and space; geographies of whiteness in contemporary South Africa; intersection between migration and transnationalism and identity

Sanjoy Chakravorty, Ph.D., Southern California, 1992, Professor—distribution, development, globalization, cities, regions

Fletcher Chmara-Huff, Ph.D., Ohio State, 2011, Assistant Professor of Instruction—territory and territorialization, political ecology, indigenous peoples, Caribbean studies, fisheries, sustainability, citizen science and related methodologies, identity politics, whiteness, and green Christianity

Roman Cybriwsky, Ph.D., Pennsylvania State, 1972, Professor—urban-social geography, world cities, neighborhood change and development, cultural geography, Pacific Asia, Ukraine

Khila Dahal, Ph.D., Texas State, 2014, Assistant Professor of Instruction—geography, GIScience, sustainability, risks and hazards, computational urban geography, geocomputation, future scenario modeling

Bradley Gardener, Ph.D., CUNY Graduate Center, 2012, Assistant Professor of Instruction — urban geography, race, migration, identity, neighborhood change, Jewish Studies, Applications of GIS

Melissa R. Gilbert, Ph.D., Clark, 1993, Professor and Chair — urban, economic, and feminist geography, feminist and critical race theory, urban social theory, urban poverty and labor markets, labor and community organizing, information technologies and economic empowerment, qualitative methods

Victor Hugo Gutierrez-Velez, Ph.D., Columbia, 2013, Assistant Professor — sustainability science, remote sensing, environmental change, landscape ecology, land change science, spatio-temporal modeling, climate change adaptation and mitigation, social-ecological systems

Lee Hachadoorian, Ph.D., CUNY Graduate Center, 2011, Assistant Professor of Instruction and Assistant Director of the Professional Science Master's in GIS — Open source GIS, open data, spatial databases, urban economic geography, spatial analysis, residential location, local public finance, suburbanization and sprawl

Allison Hayes-Conroy, Ph.D., Clark, 2009, Assistant Professor — food systems, sustainable nature-society relations, social movements, urban/rural studies and land use policy, feminist geography and politics of the body, spiritual ecology

Kevin Henry, Ph.D., McGill, 2005, Associate Professor — medical and health geography, public health, cancer epidemiology, applied GIS and spatial statistics for health data, health services and disparities

Charles Kaylor, ABD, Michigan, Assistant Professor of Instruction — GIS, information technology, e-government, the digital divide, community planning

Michele Masucci, Ph.D., Clark, 1987, Professor and Vice President for Research — societal dimensions of information and communications technologies, GIS and society, regional planning theory, water resources management, theories of the digital city

Jeremy Mennis, Ph.D., Pennsylvania State, 2001, Associate Professor and Undergraduate Chair — geographic information science and systems, spatial analysis, geographic data mining, social and environmental applications of GIS

Ariane Middel, Ph.D., Kaiserslautern, 2008, Assistant Professor — urban climate, microclimate, human biometeorology, heat mitigation, climate change adaptation and mitigation, modeling and simulation, urban form and design, urban sustainability, geovisualization

David Organ, Ph.D., Berkeley, 1995, Assistant Professor of Instruction — historical geography, urban geography and African American Studies

Hamil Pearsall, Ph.D., Clark, 2009, Associate Professor and Graduate Chair — urban sustainability, environmental justice and health, GIS, human dimensions of global environmental change, risk, hazards and vulnerability, brownfield redevelopment, urban greening

Christina Rosan, Ph.D., Massachusetts Institute of Technology, 2007, Associate Professor — metropolitan planning and governance in the U.S. and Latin America, environmental planning, land use and growth management, urban politics, management of megacities

Rickie Sanders, Ohio State, 1981, Professor — urban social geography, geographic education/under-represented groups, environment and development

Kolson Schlosser, Ph.D., 2007, Pennsylvania State, Assistant Professor of Instruction — political ecology of mineral resource extraction in northern North America, environmental history, critical geopolitics, population geography, geographic pedagogy

Jacob Shell, Ph.D., 2012, Syracuse, Associate Professor — transportation and infrastructure, transport animals, geography of social movements and rebellions, cartography and geovisualization, mapping of texts and literature, geographic dimensions of political economy

Gerald Stahler, Ph.D., Temple, 1983, Professor — psychology (clinical), program evaluation, urban social problems, drug abuse

Elizabeth L. Sweet, Ph.D., 2000, University of Illinois at Chicago, Assistant Professor of Instruction — immigration, economic development, gender violence, diversity issues in community development

Kimberley Anh Thomas, Ph.D., Rutgers, 2015, Assistant Professor — environmental politics, international development, economic globalization, global change, international water governance, climate justice

Sandra Zupan, Ph.D., University of Wisconsin-Milwaukee, 2010, Assistant Professor of Instruction — neoliberal urban governance, local economic development, community organizations, labor-community coalitions, economic justice, environmental justice, urban sustainability, Rust Belt

EMERITI FACULTY:

Carolyn T. Adams, Ph.D., Washington, 1974, Professor Emeritus — urban public policy, housing, economic development, infrastructure planning

David J. Cuff, Ph.D., Pennsylvania State, 1972, Professor Emeritus — cartography, physical geography, exploration

Marilyn Silberfein, Ph.D., Syracuse, 1971, Professor Emeritus — urban and rural development, third world economic geography, migration, political geography, tourism, world affairs

UNIVERSITY OF PITTSBURGH AT JOHNSTOWN

GEOGRAPHY DEPARTMENT

DATE FOUNDED: 1971

DEGREES OFFERED: B.A.

GRANTED 9/1/16 - 8/31/17: 9 Bachelors

MAJORS: 24

CHAIR: William B. Kory

DEPARTMENT SECRETARY: Sharon E. Wilson

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. William B. Kory, Geography Department, University of Pittsburgh at Johnstown, Johnstown, Pennsylvania 15904. Telephone (814) 269-2994 or 2990. Fax (814) 269-7255. E-mail: koryupj@pitt.edu.

PROGRAMS AND RESEARCH FACILITIES: The Geography Department at the University of Pittsburgh at Johnstown offers an undergraduate major which emphasizes physical/environmental geography, urban/economic geography, and population/geodemography studies. Geo-techniques are stressed in all sub-fields. Secondary Education majors may elect a 30 geography credit education degree. A separate Environmental Studies major, emphasizing environmental policy, is also available and has over 40 majors. The department arranges internships with local and regional planning and resource management agencies for qualified students. The department also offers a certificate program in GIS.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Students with a major in geography must complete 30 credits in the discipline. A course in cartography, three "core" geography classes, and an additional six geography courses from three subfields, along with a methodology course are required for a major. Selected courses in related Social Sciences and Natural Sciences are also strongly recommended, and there are additional Divisional and University requirements all students must complete.

UPJ is a degree granting four year college within the University of Pittsburgh system. The college offers undergraduate programs in arts and sciences, education, business, nursing and engineering. It is located on a wooded, 650-acre suburban campus and has an enrollment of over 3,000 students. The department edits and publishes *The Pennsylvania Geographer*, a semi-annual refereed journal of the Pennsylvania Geographical Society.

FACULTY:

Ola Johansson, PhD, Tennessee, 2004, Professor — urban, planning, energy, Europe, popular music
William B. Kory, PhD, Pittsburgh, 1977, Associate Professor — geodemography, political, migration, Russia and Eastern Europe, Africa
Ahmad Massasati, PhD, Utah, 1991, Assistant Professor — cartography, GIS, remote sensing, Middle East
Mitzy Schaney, ABD, West Virginia — physical, environmental, water resources, soils
Greg Faiers, PhD, Professor Emeritus
Mary Pfau Lavine, PhD, Professor Emerita

VILLANOVA UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND THE ENVIRONMENT

DATE FOUNDED: 1966 (Re-established in 2007)

DEGREES OFFERED: B.A., B.S., and M.S.

GRANTED 8/22/17-8/22/18: 20 Bachelors, 6 Masters

CHAIR: Francis A. Galgano Jr.

DEPARTMENT ADMINISTRATIVE ASST: Ms. Angelina Fondaco

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Dr. Francis A. Galgano, Department of Geography and the Environment, Villanova University, 800 Lancaster Ave., G67 Mendel Hall, Villanova, Pennsylvania 19085-1699. Telephone (610) 519-3337/3336. Fax (610) 519-3338.

E-mail: francis.galgano@villanova.edu.

Internet: <http://www.villanova.edu/arts/geoenv/>.

PROGRAMS AND RESEARCH FACILITIES:

The Department of Geography and the Environment offers B.A. degrees in Geography and Environmental Studies, and a B.S. in Environmental Science. The department also offers minors in Geography and Sustainability Studies. The department's new Master of Science in Environmental Science program is in its second year. The department was re-established in 2007 to serve as a multidisciplinary academic unit linking social and natural sciences within the College of Liberal Arts and Sciences. The department's overarching objective is to integrate the disciplines of geography and environmental science to seek an understanding of human and environmental patterns, the processes that produce those spatial patterns, and salient human and environmental problems that face modern society.

Individual undergraduate programs are formed around major themes: (1) human systems analysis and human geography; (2) geographical techniques; (3) regional analysis; and (4) physical geography and environmental systems. Majors can also participate in an Honors Program and other concentrations/minors within the College. Internships designed for geography and environmental majors are available.

The department has a state-of-the-art computer facility dedicated exclusively to the Geospatial Sciences. The department has three teaching and five research labs. Additionally, the department has just added a full suite of state-of-the-art GPS equipment.

For information regarding the graduate program, please refer to http://www.villanova.edu/villanova/arts/geoenv/academicprograms/Graduate_Programs.html, or contact the Graduate Program Director: lisa.rodriques@villanova.edu.

The department sponsors the Eta Lambda Chapter of Gamma Theta Upsilon, the International Geographical Honor Society. Students enrolled in the geography and environmental programs participate in a campus-wide Environmental Learning Community as well as several other cross-campus and community activities. The department maintains a large map collection.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Villanova University is on a semester plan. Admission requirements are available from: Director of Admissions, Office of Admissions, Villanova University, Villanova, Pennsylvania 19085 (<http://www.villanova.edu/enroll/admission/>). Financial Aid information may be obtained from the Director of Financial Aid, Financial Aid Office, Kennedy Hall (<http://www.villanova.edu/enroll/finaid/>).

FACULTY:

Francis A. Galgano Jr., Ph.D., University of Maryland, College Park, 1998, Associate Professor and Chair — physical geography, geomorphology, coastal geomorphology, military geography, environmental geography
Steven T. Goldsmith, Ph.D., Ohio State University, 2009, Associate Professor — environmental science, environmental geology, climate change
Bonnie M. Henderson, Ph.D., Louisiana State University, 1998, Assistant Professor — social geography, population geography, North America
Keith G. Henderson, Ph.D., University of North Carolina, Chapel Hill, 1991, Associate Professor — climatology, environmental change, natural resources
Kabindra Shakya, Ph.D., Rice University, 2011, Assistant Professor — environmental science, environmental health
John L. Kelley, M.A., University of Georgia, 1981, Instructor — remote sensing
Peleg Kremer, Ph.D., University of Delaware, 2010, Assistant Professor — geographic information systems, urban sustainability
Lisa J. Rodrigues, Ph.D., University of Pennsylvania, 2005, Associate Professor and Graduate Program Director — environmental science, coral reef biogeochemistry
Stephen M. Strader, Ph.D., Northern Illinois University, 2016, Assistant Professor — meteorology
Melanie A. Vile, Ph.D., Notre Dame, 2005, Assistant Professor — ecology
Nathaniel Weston, Ph.D., University of Georgia, 2005, Associate Professor — environmental science, biochemistry, coastal ecosystems, climate change

WEST CHESTER UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND PLANNING

DATE FOUNDED: 1935

DEGREES OFFERED: B.S. in Urban & Environmental Planning; B.A. in Geography; M.S. in Geography, B.A. in Elective Social Studies Education, Master of Urban & Regional Planning

POST BACCALAUREATE CERTIFICATES OFFERED:

Geographic Information Systems (GIS), GIS Online, Urban and Regional Planning

GRANTED 9/1/17-8/31/18: 28 Bachelors, 9 Masters, 8 Certificates

STUDENTS IN RESIDENCE: 105 Undergraduate Majors, 30 Master's students

NOT IN RESIDENCE: 5 Masters

CHAIR: Dorothy Ives Dewey

DEPARTMENT ADMINISTRATIVE ASST: Heather MacQueen

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Dorothy Ives Dewey, Department of Geography and Planning, West Chester University, West Chester, Pennsylvania 19383. Telephone (610) 436-2746. Department telephone (610) 436-2343. Fax (610) 436-2889. E-mail: divesdewey@wcupa.edu. Internet: www.wcupa.edu/geography.

PROGRAMS AND RESEARCH FACILITIES:

Geography and Planning at West Chester, housed in the College of Business and Public Management, offers undergraduate majors and minors in planning, geography and geographic information systems (GIS). Graduate students are offered two Masters Degree programs, and certificates in Geographic Information Systems and Urban and Regional Planning.

Undergraduate: Undergraduate majors may complete either a B.S. in Urban and Environmental Planning or a B.A. in Geography with an option to specialize in one of four specific areas of interest: (1) General Geography, (2) Geographic Information Systems (GIS), (3) Environmental, (4) Elective Social Studies Education. All degree options include an emphasis on applications of geospatial technologies and provide comprehensive backgrounds in planning and/or geography as a field of study. Students are encouraged to apply their knowledge and skills through directed internship experiences prior to graduation. Qualified undergraduates have an option for an Accelerated B.A. or B.S. to M.S. Geography program, and thereby earn an M.S. Geography degree in one year following completion of their undergraduate degree.

Graduate: Graduate programs include the Master of Urban and Regional Planning (MURP) and an M.S. in Geography. There are two certificate programs.

The M.S. in Geography develops skills and expertise for problem solving in such areas as geographic information systems, land use planning, demographic research, conservation of natural resources, urban environmental analysis, and economic development. It is a 33-hour thesis or non-thesis program. Internships are possible in both Masters programs.

The Master of Urban and Regional Planning prepares students for careers in urban planning or a related profession. The program emphasizes environmental planning, economic development planning and land use. Geospatial technologies are fully integrated throughout the program. The program has been designed around the accreditation standards of the Planning Accreditation Board (PAB).

The Certificate in Geographic Information Systems consists of four courses that teach the use of technologies of Geographic Information Systems (GIS) and Global Positioning Systems (GPS). These technologies are prominent workplace tools, which are widely used in public and private sectors today. All four courses can be counted towards a M.S. in Geography and/or the Master of Urban and Regional Planning.

The Certificate in Urban and Regional Planning consists of six courses that teach a variety of subject areas in planning including transportation, environmental, land use and housing. The certificate can be earned separately, or as a component of a Master of Public Administration degree.

The Department's facilities in a new Business & Public Management Center include two GIS laboratories and a Planning Studio with Arc/GIS suite of programs including online resources as well as software and extensions and ESRI's Business Analyst. GIS applications are continuously updated. Facilities also include global positioning system (GPS) hardware and software, large format plotters, and extensive collections of maps, air photos, and other imagery.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

The University operates on the semester system. In addition to the fall and spring semesters there are two five-week summer sessions and a three-week winter session. Admission decisions are based on evaluations of transcripts, work experience, and letters of recommendation. Some assistantships and other types of financial aid are available.

FACULTY:

Gary W. Coutu, Ph.D., Texas A&M, 2001, Associate Professor — GIS, watershed delineation and analysis, remote sensing applications
Joy A. Fritschle, Ph.D., Wisconsin-Madison, 2007, Professor — biogeography, environmental planning, GIS
Megan Heckert, Ph.D., Temple University, 2012, Assistant Professor — GIS, urban environmental, sustainability
Dorothy Ives Dewey, Ph.D., Pennsylvania, 1996, Professor — land use planning, economic development planning, housing, GIS
Matin Katirai, Ph.D., Louisville, 2009, Assistant Professor — business GIS, public health GIS, urban planning
James P. Lewandowski, Ph.D., Ohio State, 1991, Professor — urban/economic, international trade, quantitative methods, GIS
Joan M. Welch, Ph.D., Boston, 1990, Professor — biogeography, conservation, sustainability

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1963

GRADUATE PROGRAM FOUNDED: 1963

DEGREES OFFERED: B.A., B.S., M.A., M.S., Ph.D.

GRANTED (CALENDAR YEAR 2017): 20 Bachelors, 9 Masters, 4 Ph.D.

STUDENTS IN RESIDENCE: 57 Majors, 28 Masters, 28 Ph.D.

CHAIR: Caroline Nagel

GRADUATE PROGRAM COORDINATOR: Mr. Capers Stokes

FOR FURTHER INFORMATION: Director of Graduate Studies, Department of Geography, University of South Carolina, Columbia, South Carolina 29208. Telephone (803) 777-5234. Fax (803) 777-4972. E-mail: Dr. Jean Ellis, jtellis@mailbox.sc.edu. For more information about the department and the graduate application process, see the Geography Department's home page: <http://artsandsciences.sc.edu/geog/>.

PROGRAMS AND RESEARCH FACILITIES: The department offers training in fundamental geographic skills and the opportunity for advanced study and research in four thematic areas:

Geographic Information Sciences, including big-data and social-media analytics, spatial-data computing, GIS-based modelling, visualization, cognitive image interpretation, and remote sensing using LiDAR and unmanned aerial vehicles.

Physical/Environmental Geography, including biogeography, coastal and aeolian geomorphology, climatology, and boundary-layer processes.

Human Geography, including urban geography, cultural and historical landscapes, migration, geopolitics, resource conflicts, and international development.

Environment-society relationships, including natural resources, land policy, environmental hazards management, political ecology and climate adaptation.

In addition, the department has international regional expertise in the Middle East, Latin America and Europe.

The department offers Ph.D., M.A., M.S., B.A., and B.S. degrees. The Ph.D. program prepares students for high-level careers in academia, government, and industry. The M.A. and M.S. programs prepare students for further graduate study and for employment in a broad range of positions in the public and private sector. The M.A. degree is available to students with interests in qualitative human geography, while the M.S. degree is for students with interests in physical/environmental geography and geographic information science. Undergraduate Geography majors can elect to do a B.S. degree, with specialization in physical geography or GIScience, or a flexible B.A. degree. Our internship program provides advanced undergraduates and graduate students with on-the-job experience in local planning agencies, environmental organizations, historic preservation groups, non-profits, and businesses. The department also offers an undergraduate certificate in geospatial intelligence (GEO-INT) that is accredited by the U.S. Geospatial Intelligence Foundation.

The department is home to several research centers and institutes. The Hazards and Vulnerability Research Institute is an interdisciplinary research and graduate and undergraduate training center focused on the development of theory, data, metrics, methods, applications, and spatial analytical models for understanding community vulnerability to hazards. The Carolinas Integrated Sciences and Assessments (CISA), which is supported by NOAA's Regional Integrated Sciences and Assessments (RISA) program, works with stakeholders across South Carolina and North Carolina to incorporate climate information into water and coastal management and related decision-making processes. The department also houses the South Carolina Geographic Alliance and the state-funded Center for Excellence in Geographic Education, which provide outreach to primary and secondary school educators and statewide leadership in the application of geographic knowledge to the K-12 curriculum. There are several specialized research and training facilities within the department including: the GISciences Research Lab, the WIND Lab, and the Earth Surface Patterns and Processes Lab.

The department is a founding member of the University Consortium for Geographic Information Science (UCGIS) and has extensive

computing and software resources, including ArcGIS and ERDAS. With 11 web and data servers (SQL-based), the department has extensive web development and deployment infrastructure. In addition, we have an extensive and well-maintained collection of GPS instruments (Trimble Pro-XR), reflectorless total stations (Leica), hand-held radiometer, high resolution color plotters, scanners, and slide-making equipment. The department is home to the Campus GIS Coordinator, who provides training and technical support to an extensive interdisciplinary research community.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: All majors are required to take an introductory geography course, a geographic techniques course, and a senior capstone seminar. Additional coursework can be taken in two specialized concentrations (physical/environmental, geographic information science) or by completing a general geography degree that consists of courses selected from across the curriculum in conjunction with a student's advisor. All faculty are actively involved in the undergraduate program, so virtually all aspects of the field are represented in both lower- and upper-level courses. Geography undergraduate degree programs are designed to facilitate double-majoring, and Geography majors are encouraged to explore the numerous cognate and minor programs available across the University. Geography forms an important component of interdisciplinary Global Studies and Environmental Studies programs. Links to undergraduate admissions information can be found on the department website.

GRADUATE: The Doctoral program requires a minimum of 33 credit hours. Doctoral students must fulfill three core requirements: a disciplinary history course, an advanced methodology course, and a graduate-level statistics course. Additional electives are focused on courses to support the student's research interests. Each student works closely with an advisor to determine the coursework necessary to complete a satisfactory dissertation. Twelve semester hours of doctoral research are required. Doctoral students have the option of writing a 3-manuscript dissertation. To earn the doctoral degree, students are required to serve as an instructor-of-record or as a classroom teaching assistant for at least one term.

The Master's degree programs require a minimum 30 semester hours of graduate work, including a geographical methods course, a disciplinary history course, and 1-6 thesis credit hours. Small informal classes and seminars offer students the chance to work closely with faculty members, while the flexible program requirements offer the opportunity to take related courses in other University departments. The M.A. and M.S. programs culminate in a thesis based upon original research, and Master's students have the option of writing a manuscript-style thesis or a traditional-style thesis.

Students seeking admission to a graduate program in Geography at the University of South Carolina are required to submit official transcripts of all previous study, Graduate Record Examination scores, two letters of recommendation, a brief written statement describing career objectives and probable specialties, and an Application Summary Form. TOEFL scores are required of all applicants for whom English is not the primary language. For the doctoral program, a master's degree is required. For the masters programs, the Department prefers but does not require an applicant to have an undergraduate major in Geography; it does, however, require evidence of the intellectual ability to perform graduate-level work, and students with deficient backgrounds in Geography may be required to complete remedial work. Please see the department webpage for application deadlines and further details about requirements.

Financial Aid: Graduate assistantships carry stipends of \$12,500-\$13,500 plus tuition waivers for the academic year. Fellowships are available on a highly competitive basis for up to \$21,500 per academic year and are renewable for up to three years. The Graduate School and

Department offer travel support for presentations at professional meetings.

FULL-TIME FACULTY:

Jessica Barnes, Ph.D., Columbia, 2010, Assistant Professor — water and resource politics, food politics, development, Middle East,
Gregory J. Carbone, Ph.D., Wisconsin-Madison, 1990, Professor — climatology, environmental decision-making
Susan L. Cutter, Ph.D., Chicago, 1976, Carolina Distinguished Professor — environmental hazards and risks, environmental policy
Meredith DeBoom, Ph.D., Colorado-Boulder, 2018, Assistant Professor — human rights, development, geopolitics, and African geography
Kirstin Dow, Ph.D., Clark, 1996, Carolina Trustee Professor — human dimensions of global environment change, vulnerability, and adaptation
Jean T. Ellis, Ph.D., Texas A&M, 2006, Associate Professor — geomorphology, aeolian and coastal sediment transport, coastal management
Diansheng Guo, Ph.D., Pennsylvania State, 2003, Associate Professor — geographic information science, spatial data mining, geocomputation
Conor Harrison, Ph.D., North Carolina, 2014, Assistant Professor — energy and infrastructure, economic geography, urban geographies of race
April Hiscox, Ph.D., Connecticut, 2006, Assistant Professor — boundary layer meteorology, land-air interactions, forest meteorology
Michael E. Hodgson, Ph.D., South Carolina, 1987, Professor — geographic information science, remote sensing, hazards
David Kneas, Ph.D., Yale, 2014, Assistant Professor — mining and resource conflicts, political ecology, Latin America
John A. Kupfer, Ph.D., Iowa, 1995, Professor — biogeography, landscape ecology, public land management, spatial analysis, GIScience
Zhenlong Li, Ph.D., George Mason, 2015, Assistant Professor — high-performance/cloud computing; environmental modeling and simulation
Amy Mills, Ph.D., Texas, 2004, Associate Professor — cultural landscapes and historical memory, urban cultures, gender, Middle East
Jerry Mitchell, Ph.D., South Carolina 1998, Research Associate Professor — geographic education, environmental hazards, tourism
Cary Mock, Ph.D., Oregon, 1994, Professor — synoptic climatology, climate change, historical and Quaternary environments
Caroline R. Nagel, Ph.D., Colorado-Boulder, 1998, Professor — migration, multiculturalism, citizenship, youth identity, religion
Cuizhen (Susan) Wang, Ph.D., Michigan State, 2004, Assistant Professor — bio-environmental remote sensing, GIS, spatial analysis

EMERITI FACULTY:

Allen D. Bushong, Ph.D., Florida, 1961
David Cowen, Ph.D., Ohio State, 1971
Patricia Gilmartin, Ph.D., Kansas, 1980
William L. Graf, Ph.D., Wisconsin-Madison, 1974
John F. Jakubs, Ph.D., Ohio State, 1974
L. Allan James, Ph.D., Wisconsin-Madison, 1988
Robert L. Janiskee, Ph.D., Illinois, 1974
John R. Jensen, Ph.D., UCLA, 1976
Charles F. Kovacic, Ph.D., Michigan State, 1970
Robert E. Lloyd, Ph.D., Pennsylvania State, 1974
Paul E. Lovingood, Jr., Ph.D., North Carolina, 1962
Julian V. Minghi, Ph.D., Washington, 1962
Lisle S. Mitchell, Ph.D., Ohio State, 1967
William R. Stanley, Ph.D., Pittsburgh, 1966
Theodore R. Steinke, Ph.D., Kansas, 1979

SOUTH DAKOTA

SOUTH DAKOTA STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1967

GRADUATE PROGRAM FOUNDED: 1974

DEGREES OFFERED: B.S., M.S. Geography; B.S.

Geographic Information Sciences; B.S. Community and Regional Planning; Ph.D. Geospatial Science and Engineering

GRANTED 1/1/17-12/31/17: 12 Bachelors, 6 Masters

STUDENTS IN RESIDENCE: 54 Majors, 28 Masters

NOT IN RESIDENCE: 8 Masters

HEAD: Bob Watrel (Interim)

GRADUATE PROGRAM COORDINATOR: Darrell Napton

DEPARTMENT ADMINISTRATIVE ASST: Delora Bennett

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Darrell Napton, Graduate Program Coordinator, Department of Geography, 406 Wecota Hall Annex- Box 506, South Dakota State University, Brookings, South Dakota 57007. Telephone (605) 688-4511. E-mail: Robert.Watrel@sdstate.edu. Internet: <http://www.sdstate.edu/geo/>.

PROGRAMS AND RESEARCH FACILITIES:

The Department of Geography offers Bachelors of Science degrees in Geographic Information Sciences and Geography, a Master of Science degree in Geography, including a specialization in Geographic Information Sciences, and minors in Geographic Information Sciences, Geography and Sustainability, which are offered at the undergraduate level. Undergraduate certificates in Geographic Information Sciences and Unmanned Aircraft Systems (UAS) also are available. Many of the department's courses are offered online. The geography major and minor are offered completely online. An interdisciplinary PhD program in Geospatial Science and Engineering also is offered in collaboration with the Geospatial Sciences Center of Excellence (GSCE).

The Geographic Information Systems (GIS) laboratory is a fully equipped 18-seat instructional and research computer facility. The lab is supported through a state higher education site license for the latest releases of ESRI GIS software.

Internships at the undergraduate and graduate level are generally available with the USGS EROS Center, planning agencies at the state, regional, county, and city level, governmental agencies, and business and industry.

The H.M. Briggs Library contains the largest geography collection in the state. The USGS EROS Center offers related facilities to benefit students, as do the South Dakota Geographic Alliance office, the Northern Plains Hazard Research Office, and the South Dakota Census Data Center.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

The Bachelor of Science degrees require a total of 120 semester credit hours. Areas outside the department, beneficial to the student, include Computer Science, Biology, Economics, Education, Engineering, Mathematics, Plant Science, Natural Resource Management, and

Sociology. The undergraduate program in geography includes coursework in research methods, human, physical, and regional geography.

A minimum of 30 semester credits is required for the Master of Science degree, of which at least 22 credits must be earned in the major. The thesis may account for up to six of these credits. Financial aid includes several Graduate Teaching Assistantships. South Dakota State University is a Land Grant Institution with several natural resources and social science departments that complement geography. The department has on-going collaboration with an institute in Romania and is developing collaborations with institutions in other countries. The graduate program in geography includes coursework in geospatial techniques; physical environment; political geography, culture, and place; and rural and urban land systems.

FACULTY:

Rasmus Houborg, Ph.D., University Copenhagen, 2006, Assistant Professor — Remote Sensing, machine learning, precision agriculture

Dapeng Li, Ph.D., University of Utah, 2016, Assistant Professor — GISc, systems modeling & integration, spatial analysis, mobile computing, data mining, geocomputation, geographic information engineering, big data, open science

Bruce Millett, Ph.D., South Dakota State University, 2004, Assistant Professor — physical, aerial remote sensing

Darrell Napton, Ph.D., University of Minnesota, 1987, Professor — land use and land use systems, human-environmental interactions, sustainability and future geographies, rural and agricultural, and North America

David Roy, Ph.D., Cambridge University, 1994, Professor — physical, remote sensing, land use land cover change

Jamie Spinney, Ph.D., McMaster University, 2011, Assistant Professor — urban geography, urban and regional planning, geomatics

Bob Watrel, Ph.D., University of Nebraska, 2001, Associate Professor — cartography, political, Great Plains

George W. White, Ph.D., University of Oregon, 1994, Professor — world regional, political, culture, ethnicity, and identity formation, Europe, geographic thought

Xiaoyang Zhang, Ph.D., Professor, University of London, 1999 — remote sensing science and applications in land cover land use

EMERITI FACULTY:

Donald J. Berg, Ph.D., UC, Berkeley, 1976, Professor — physical, hazards, American Indians, world regional

Charles F. Gritzner, Ph.D., Louisiana State, 1969, Distinguished Professor — cultural, developing countries, history and philosophy of geography, geographic education

Janet H. Gritzner, Ph.D., Louisiana State, 1978, Professor — cultural, remote sensing, geographic information systems, Africa

Edward Patrick Hogan, Ph.D., Saint Louis, 1969, Professor and Assistant Vice President for Academic Affairs — South Dakota, human, research, industrial

Roger K. Sandness, Ph.D., Iowa, 1986, Professor — physical, computer cartography, quantitative methods

ADJUNCT FACULTY:

Chris Crawford, Ph.D., Assistant Professor, EDC, University of Minnesota, 2013

Alisa Gallant, Ph.D., Associate Professor, EDC, Colorado State University, 1997

Dean B. Gesch, Ph.D., Assistant Professor, EDC, South Dakota State University, 2006

Thomas Loveland, Ph.D., Professor, EDC, University of California-Santa Barbara, 1998

Birgit Peterson, Ph.D., Associate Professor, EDC, University of Maryland, 2000

George Z. Xian, Ph.D., Associate Professor, EDC, University of Nevada, Reno, 1996

TENNESSEE

MIDDLE TENNESSEE STATE UNIVERSITY (GEOSCIENCES)

DEPARTMENT OF GEOSCIENCES

DATE FOUNDED: 1964

DEGREES OFFERED: B.S. Geosciences; Master of Science in Professional Science (MS-PS)

DEGREES GRANTED (2018): 32 B.S.

STUDENTS IN RESIDENCE: 86 Majors (B.S.); 18 MS-PS

CHAIR: J. Warner Cribb

FOR CATALOG AND FURTHER INFORMATION: Catalog: catalog.mtsu.edu; Undergraduate Admissions: admissions@mtsu.edu, 615-898-2233. Graduate Admissions: graduate@mtsu.edu, 615-898-2840. Department of Geosciences: 615-898-2726; Fax: 615-898-5592; E-mail: Karen.Wolfe@mtsu.edu; Web: mtsu.edu/geosciences.

PROGRAMS AND RESEARCH FACILITIES: The B.S. in Geosciences has emphases in Physical Geography and Geology. Within these major emphases are career tracks (patterns) designed to provide the student with exceptional career opportunities. In the Physical Geography emphasis, the two career tracks are Physical Geography, and Geospatial Analysis (primarily GIS, remote sensing, and cartography). The Geology emphasis has three career tracks: Geology, Earth Science, and Earth Science for Teachers. Three undergraduate minors are offered: Physical Geography, Remote Sensing, and Geology/Earth Science. Two graduate minors are offered: Physical Geography, and Earth Science/Geology. The Master of Science in Professional Science, which is certified as a Professional Science Master's degree, has three career tracks: GIS, Environmental Geosystems, and General Geoscience.

Departmental programs are supported by the Geosciences Student Computer Laboratory and the Ralph O. Fullerton Laboratory for Spatial Technology. The student computer laboratory is equipped with high-end workstations, scanners and printers. The Ralph O. Fullerton Laboratory for Spatial Technology has 15 high-end workstations, 42-inch-wide Cal comp scanner, 42-inch-wide HP Design jet printer/plotter, network storage system, survey-grade Trimble Geo Explorer GPS equipment, and photogrammetrically-calibrated digital cameras. Software packages include ESRI ArcGIS, ERDAS Imagine, ENVI, PhotoModeler Scanner photogrammetry program, eCognition, LP360 Lidar analysis program, and Trimble Pathfinder Office. The Ralph O. Fullerton Laboratory for Spatial Technology also serves as the headquarters for the MTSU-Geospatial Research Center. Also available are small-format aerial photography platforms, and virtual reality equipment.

Students can gain practical experience in the use and application of geospatial techniques through a variety of sponsored research and production projects, and internships.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Middle Tennessee State University is on the semester plan. Admissions requirements are listed in the current catalog, which may be obtained as indicated above. Financial aid information may be obtained from mtsu.edu/financial-aid.

FACULTY:

Jeremy W. Aber, Ph.D., Kansas State University, 2012, Assistant Professor - GIS, cartography, small-format aerial photography, virtual geo-graphics, video games

Mark J. Abolins, Ph.D., California Institute of Technology, 1999, Professor — structural geology, tectonics
Patricia Boda, Ph.D., University of Minnesota, 2008, Associate Professor — GIS, cartography, environmental issues and concerns, sustainability, biogeography
J. Warner Cribb, Ph.D., Ohio State University, 1993, Department Chair, Professor — mineralogy, igneous petrography
Racha El Kadiri, Ph.D., Western Michigan University, 2014, Assistant Professor — hydrology, hydrogeology, remote sensing, GIS, natural hazards, data mining
Clayton D. Harris, Ph.D., Indiana University, 1992, Associate Professor — sedimentology, oceanography, environmental geology
James A. Henry, Ph.D., University of Kansas, 1978, Professor — physical geography, climatology/meteorology, remote sensing, regional geomorphology of the United States
Melissa Lobegeier, Ph.D., James Cook University, 2001, Associate Professor — paleontology, marine geology
Henrique G. Momm, Ph.D., University of Mississippi, 2008, Director, MTSU-Geospatial Research Center, Associate Professor — remote sensing, GIS, watershed physical processes, machine learning, geo-informatics, geo-morphometry

LECTURERS AND ACADEMIC PROFESSIONALS:

Alan Brown, M.S., Illinois State University, 2002, Lecturer — hydrogeology, field work, vertebrate paleontology
Laura R. Collins, M.S., Mississippi State University, 2005, Instructor — Earth science, geology
Michael W. Hiett, M.S., University of Kentucky, 1995, Lecturer and Earth Science Lab Coordinator — Earth science, geology
Zada Law, M.A., University of Wisconsin, 1980, Director, Ralph O. Fullerton Laboratory for Spatial Technology — GIS

EMERITI FACULTY:

Ralph O. Fullerton, Ed.D., Indiana University, 1971
Burton W. Bordine, Ph.D., Louisiana State University, 1974
Ron L. Zawislak, Ph.D., University of Wyoming, 1980

MIDDLE TENNESSEE STATE UNIVERSITY (GLOBAL STUDIES)

GLOBAL STUDIES AND HUMAN GEOGRAPHY PROGRAM

DATE FOUNDED: 2014

DEGREES OFFERED: B.S. Global Studies and Human Geography with Concentrations in Human Geography, Geography Teacher Licensure, and Global Studies

DEGREES GRANTED (2017): 31

STUDENTS IN RESIDENCE: 63 Majors (undergraduate)

CHAIR: David Carleton (interim)

PROGRAM ADMINISTRATIVE ASSISTANT: Natasha Callison

FOR CATALOG AND FURTHER INFORMATION: Catalog: catalog.mtsu.edu; Undergraduate Admissions: admissions@mtsu.edu (615.898.2233) or mtonestop@mtsu.edu (615.898.2111); Global Studies and Cultural Geography Program: 615.494.7744 or 615.898.5978, Fax: 615.494.8726; E-mail: natasha.callison@mtsu.edu or carleton@mtsu.edu; Web: mtsu.edu/global or mtglobal@mtsu.edu

PROGRAM AND RESEARCH FACILITIES: The B.S. in Global Studies and Human Geography has three concentrations: Human Geography, Geography Teacher Licensure, and Global Studies. A combination of the disciplinary strengths of Human Geography and Global Studies offers students a comprehensive, hands-on education about the world that can skillfully position them for a variety of

careers – locally and globally. Numerous education abroad and internship opportunities exist for majors and minors. The Human Geography concentration allow students to critically engage a range of issues relating to such topics as human migration, human/environment interactions and cultural landscape morphology. The Global Studies concentration empowers students to critically examine, understand and reflect upon local, regional and global connections between peoples, places and events from cross-cultural, interdisciplinary perspectives. Two undergraduate minors are offered: Cultural Geography and Global Studies. The program houses the U.S. Culture and Education Certificate program for international students. Program concentrations are supported by education abroad programs and professional internships along with geographic field-work.

ACADEMIC PLAN, ADMISSION REQUIREMENTS AND FINANCIAL AID:

Middle Tennessee State University operates on the semester system. Admission requirements are provided in the current catalog which may be accessed through information provided above. Financial aid information may be accessed directly through the mtsu.edu/financial-aid web site.

FACULTY:

Jeremiah Asaka, Ph.D. University of Massachusetts, 2018, Instructor – environmental sustainability, global issues, and Sub-Saharan Africa
David Butler, Ph.D. University of Cincinnati 2001, Vice Provost for Research and Dean of the College of Graduate Studies – disaster recovery, heritage and tourism development, nature-technology relationships
Jim Chaney, Ph.D. Louisiana State University, 2013, Assistant Professor – Latin America, migration, refugees, human trafficking, ethnic landscapes, geo-political economies, cultural and urban geography
LaToya Eaves, Ph.D. Florida International University, 2014, Assistant Professor – American South, gender, sexualities, race and racialization, political geography, labor and Black feminism
Derek Frisby, Ph.D. University of Alabama, 2004, Assistant Professor – historical geography of U.S and American South, landscapes of war and remembrance, geography education and GIS
Corey Perkins, M.A. University of Oslo (Norway), 2012, Instructor – globalization, popular culture and cross-cultural studies
David Schmidt, Ph.D. University of Wisconsin, 1997, Vice Provost for International Affairs – global education

AFFILIATED/ADJUNCT FACULTY:

Pam Davis, M.A. Middle Tennessee State University – U.S. Culture and Education Certificates
Bethany Hall, M.A. Middle Tennessee State University – world regional geography
Gabrielle Thompson, M.A. Middle Tennessee State University 2015 and Executive Director, Free for Life International – human trafficking and cross-cultural studies

UNIVERSITY OF MEMPHIS

DEPARTMENT OF EARTH SCIENCES

DATE FOUNDED: 1925 (Merged with Geological Sciences in 2002)

DEGREES OFFERED: B.A., Earth Sciences, Geography concentration; M.S., Earth Sciences, Geography concentration; M.A., Earth Sciences; Ph.D., Earth Sciences

GRANTED 8/22/16-8/22/17: Earth Sciences: 19 Bachelors, 7 Masters, 3 Geographic Information System Certificates, 5 Ph.D.

CHAIR: Dr. Daniel Larsen

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Dorian Burnette, Department of Earth Sciences, University of Memphis, Johnson Hall 230, Memphis, TN. Telephone (901) 678-4452. Fax (901) 678-2178. E-mail: djbrntte@memphis.edu. Internet: <http://uofm.memphis.edu/earthsciences/>.

PROGRAMS AND RESEARCH FACILITIES: The Department of Earth Sciences offers B.A. degrees in Earth Sciences with concentrations in Archaeology, Geography, and Geology. We offer M.S. degrees in Earth Sciences with concentrations in Archaeology, Geography, Geology and Interdisciplinary Studies, a non-thesis M.A. degree in Earth Sciences and a Ph.D. in Earth Sciences. A graduate certificate is offered in Geographic Information Systems, which is available to all graduate students on campus and nearby Colleges. The Certificate program offers online GIS courses. Earth Sciences at the University of Memphis provides an interdisciplinary undergraduate program where students take one or more courses in each of the disciplines, but achieve the concentration requirements by focusing coursework in a specific area. The University of Memphis is known for its extensive internship programs and for the Helen Hardin Honors program, one of the largest Honors programs in the state of Tennessee. Earth Science faculty encourages students to take advantage of these programs and explore research opportunities in the undergraduate program. The graduate program emphasizes applied Earth Sciences research, and is especially well suited for interdisciplinary research in our focus areas of hazards, geomorphology, Quaternary studies, water resources, meteorology and climate studies, remote sensing and geo-spatial analysis. Applied geography topics, perspectives, and techniques have proven to be strong components of our Earth Sciences doctoral program. The department has a state-of-the-art University computer facility in the building for computer-intensive courses. Additionally, the department has survey-grade GPS equipment, field mapping GPS units, state-of-the-art GIS and Remote Sensing software, and a variety of other research facilities to support student research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University of Memphis is on a semester plan. Information regarding admission to the University is available at <http://www.memphis.edu/admissions/> or contact Office of Admissions, University of Memphis, 101 Wilder Tower, Memphis, TN. Financial Aid information may be obtained from the Office of Financial Aid, 103 Wilder Tower, University of Memphis, Memphis, TN 38152 (<http://www.memphis.edu/financialaid/>).

FACULTY:

Angela Antipova, Ph.D., Louisiana State U, 2010, Associate Professor — GIS and spatial analysis, Medical Geography, Transportation Geography, Urban Geography
Jerry Bartholomew, Ph.D., Pennsylvania State University, 1964, Professor — Hazards, Tectonics and Quaternary Studies
Dorian Burnette, Ph.D., University of Arkansas, 2009, Assistant Professor — Meteorology, Climatology, Climate Change, Dendroclimatology, Extreme Weather and Climate Events
Randel Cox, Ph.D., University of Missouri, 1995, Professor — Active tectonics, Geomorphology, Hazards
David Dye, Ph.D., Washington University, St. Louis, 1980, Professor — Archaeology
Arleen Hill, Ph.D., University of South Carolina, 2002, Professor — Hazards, Nature-Society Interaction, Spatial Analysis
Julie Johnson, Ph.D., Florida International University, Instructor — Igneous Petrology, Mineralogy, Geochemistry
Hsiang-te Kung, Ph.D., University of Tennessee-Knoxville, 1980, Professor and Director, Confucius Institute — Water Resources, Hazards, Geomorphology
Youngsang Kwon, Ph.D., SUNY-Buffalo, 2012, Assistant Professor — Remote Sensing, Spatial Statistics, GIS, Forest Dynamics, Terrestrial Carbon Cycling, Climate Change

Daniel Larsen, Ph.D., New Mexico, 1994, Professor and Chair — Hydrogeology, Soils, Low-temperature geochemistry, Sedimentology

Andrew Mickelson, Ph.D., Ohio State University, 2002, Associate Professor — Archaeology of Eastern North America, spatial analysis and GIS, Geophysical methods in Archaeology

Esra Ozdenerol, Ph.D., Louisiana State University, 2000, Professor — GIS, Remote Sensing, Spatial Analytical Methods, Medical Geography and Landscape Ecology

Ryan Parish, Ph.D., University of Memphis, 2013, Assistant Professor — Geoarchaeology, Archaeometry, Chert Sourcing, Reflectance Spectroscopy, Hunter-gatherer Societies, Initial Colonization of the Americas

Jose Pujol, Ph.D., University of Wyoming, 1985, Professor — Earthquake and Exploration Seismology

Roy Van Arsdale, Ph.D., University of Utah, 1979, Professor — Active tectonics, Geomorphology, Structural Geology

UNIVERSITY OF TENNESSEE, KNOXVILLE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1914

GRADUATE PROGRAM FOUNDED: 1928

DEGREES OFFERED: B.A., M.S., Ph.D.

GRANTED 7/1/2017-06/30/2018: 26 Bachelors, 10 Masters, 7 Ph.D.

STUDENTS IN RESIDENCE: 114 Majors, 7 Masters, 31 Ph.D.

NOT IN RESIDENCE: 2 Masters, 7 Ph.D.

HEAD: Ronald V. Kalafsky

ASSOCIATE HEAD: Henri D. Grissino-Mayer

DIRECTOR OF GRADUATE STUDIES: Hyun Kim

FOR FURTHER INFORMATION WRITE TO: Department of Geography, 304 Burchfiel Geography Building, University of Tennessee, Knoxville, Tennessee 37996-0925. Telephone (865) 974-2418. Fax (865) 974-6025. E-mail: utkgeog@utk.edu. Home page: <http://geography.utk.edu/>.

PROGRAMS AND RESEARCH & OUTREACH FACILITIES:

UNDERGRADUATE: Geography, in the College of Arts and Sciences, offers a B.A. degree with five concentrations or specializations from which the student can choose: (1) Geospatial Science and Technology; (2) Landscapes and Environments; (3) Climate and Climate Change; (4) Space, Society, and Culture; and (5) World Cities and Economies. The major emphasizes the breadth of the discipline with concentrations allowing students to assemble a mix of courses and skills uniquely suited to their interests and career needs. Skills acquired include GIS, field and lab techniques, and experience in qualitative and quantitative analysis. The department has areas of special strength in physical geography/climate change, urban/economic geography, transportation geography/spatial analysis, and cultural/social geography. Courses required for the major are Introduction to GIS and Geovisualization, a senior "Practicing Geography" capstone seminar, a methods course, and concentration-related courses. Faculty members make special efforts to involve undergraduates in their research. Students have obtained internships with NOAA, NASA, and National Geographic as well as local firms, campus research units, and nearby government agencies, including the Oak Ridge National Laboratory.

GRADUATE: The faculty, with extensive world-wide experience (East Asia, China, Latin America, Europe, the American South, the American West, and Canada), is exceptionally qualified to direct graduate research in: transportation, technology, and society;

population, migration, and politics; race/ethnicity, identity, and social justice; cities, urban economies, trade and globalization; biogeography; climate and environmental history; geomorphology and soils; human-environment interaction and water resources; geographic information science; GIS database design and programming; geo-computation and environmental modeling; statistical mapping and census data analysis; socio-economic and environmental applications for GIS; and remote sensing and spatial modeling with an emphasis on natural resource assessment.

The Master's Degree emphasizes research and professional development, and offers opportunities to acquire substantial depth in a sub-field. The degree requires a minimum of 30 hours of approved graduate credit. Required courses include Introduction to Geographical Research, Research Design and Field Methods, Quantitative Methods, a minimum of three hours in a research seminar, and participation in the departmental Colloquium. Students without a sound undergraduate background in geography may require additional credit hours. Up to six hours of thesis credit may be counted toward the degree. Although a non-thesis degree option does exist, the thesis approach is strongly recommended for most students.

The Ph.D. is granted to candidates who demonstrate proficiency in conducting independent research and complete a dissertation that makes a significant and original contribution to geography. Course requirements are determined by the student's doctoral committee, but must include the basic graduate courses (Geographic Concept and Method, Topics in Quantitative or Qualitative Methods), nine hours of credit in related fields outside the department, three doctoral seminars, and participation in the departmental Colloquium. Competence in theories and methodologies pertinent to the student's research specializations (including foreign languages, when appropriate) are also required. Admission to candidacy is granted following successful completion of written comprehensive examinations and an oral examination over the student's program and dissertation proposal.

RESEARCH & OUTREACH FACILITIES: The Burchfield Geography Building (BGB) is centrally located near other natural science departments and various University resources. Both the University and Department computer labs contain a wide array of GIS, remote sensing, and statistical software. The BGB houses GIS and Remote Sensing facilities; a GIS Outreach and Public Engagement Laboratory; the Tennessee Geographic Alliance; laboratories for research on soil and watershed dynamics; and three physical geography teaching laboratories. The nearby Science and Engineering Building houses facilities for global environmental change research, including laboratories for analysis of organic and mineral sediment, soils, pollen grains and other microfossils, and tree rings; and laboratory space for climate modeling, computer imaging of fossil charcoal samples, and scanning electron microscopy. The Claxton Lab Facility, which includes numerous computer workstations, is used for various research activities by faculty and students engaged in geospatial science, physical geography, and human geography.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University of Tennessee operates on a semester system. General information on admission requirements may be obtained from Graduate School, 111 Student Services Building, Knoxville, TN 37996-0211 (gradschool.utk.edu/). Students interested in geography graduate studies should contact the department (utkgeog@utk.edu) or visit the department's web page. Interested students are also encouraged to follow the department on Facebook (www.facebook.com/UTKGeography) and Twitter (@UTKGeography).

Although graduate students may begin during any term, the fall term is strongly recommended. A 3.0 (4.0 scale) or higher undergraduate grade point average is normally required for admission to a graduate degree program. Official transcripts of all previous college work, three

letters of recommendation and GRE scores are required. No single criterion will dominate, but the aggregate should provide strong evidence of ability and potential. Any person whose native language is not English must submit results of the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS). A minimum score of 550 on the paper test or 80 on the Internet-based test typically with a score of 20 on each of the sections of the test (reading, listening, writing, and speaking) is required for admission consideration. For the IELTS, a minimum score of 6.5 is required. The score must be no more than two years old from the requested date of entry. Applicants who have received a degree from an accredited U.S. institution within the past two years are exempt from the TOEFL requirement. Admission to the geography graduate program is competitive and subject to the availability of space and faculty advisors.

Several types of financial aid are available, including graduate teaching assistantships and associateships that include a stipend and tuition waiver. Research grants and contracts provide additional opportunities for support in the form of graduate research assistantships, and part-time research positions are often available through various campus research units and through the Oak Ridge National Laboratory. In addition, the Graduate School offers a variety of graduate fellowship opportunities. Highly qualified PhD applicants might be eligible for a Chancellor Fellowship that supplements graduate teaching assistantship stipends.

FACULTY:

Derek Alderman, Ph.D., Georgia, 1998, Professor — cultural, historical, public memory, American South, tourism, race
Budhendra L. Bhaduri, Ph.D., Purdue, 1998, Professor — Geographic data science, Population distribution and dynamics, Energy geography, Emergency preparedness and response
Kelsey N. Ellis, Ph.D., Florida State University, 2010, Assistant Professor — climatology, meteorology, atmospheric hazards, human-environment interaction
Ronald A. Foresta, Ph.D., Rutgers, 1979, Professor — urban revitalization, landscape and ideology, Latin America
Henri D. Grissino-Mayer, Ph.D., Arizona, 1995, Professor — global change, biogeography, dendrochronology, climatology, forest ecology, quantitative methods
Sally P. Horn, Ph.D., UC, Berkeley, 1986, Professor — biogeography, quaternary environments, Latin America
Yingjie Hu, Ph.D., University of California - Santa Barbara, 2016, Assistant Professor — GIScience, geospatial semantics, spatial data mining, information retrieval
Ronald V. Kalafsky, Ph.D., SUNY at Buffalo, 2002, Professor — economic geography, trade, manufacturing
Hyun Kim, Ph.D., Ohio State University, 2008, Assistant Professor — transportation, telecommunications, geographic information science, spatial optimization and modeling
Yingkui Li, Ph.D., Peking University, 2001, Associate Professor — geomorphology and paleo-climate reconstruction, Cosmogenic nuclides, GIS/spatial analysis, Tibetan Plateau and Tian Shan
Isabel Solange Muñoz, Ph.D., University of Texas-Austin, 2014, Assistant Professor — Latin America, urban geography, immigration, race and ethnicity, social movements
Nicholas Nagle, Ph.D., University of California - Santa Barbara, 2005, Associate Professor — spatial analysis, population geography, urban geography
Paulo Raposo, Ph.D., Pennsylvania State University, 2016, Assistant Professor — cartography, GIS, map generalization
Madhuri Sharma, Ph.D., Ohio State, 2009, Associate Professor — urban-social dimensions of race and ethnicity, poverty and inequality, mixed-method approaches
Shih-Lung Shaw, Ph.D., Ohio State, 1986, Professor — transportation, geographic information science, space-time analysis
Robert Stewart, Ph.D., Tennessee, 2011, Assistant Professor — GIS, risk and decision analysis, environmental regulatory guidance

Liem T. Tran, Ph.D., Hawaii, 1999, Professor — environmental modeling, integrated environmental assessment

TECHNICAL STAFF:

Kurt Butefish, M.S., University of Tennessee, 1986, Coordinator of Tennessee Geographic Alliance — geographic education, curriculum

Michael Camponovo, M.S., University of New Mexico, 2013, GIS Outreach Coordinator — GIS, volunteered geographic information, natural hazards

Nathan McKinney, M.S., University of West Florida, 2016, GIS Labs Manager — applied GIS, web mapping, environmental science, hazards, coastal science, field methods

ADJUNCT FACULTY:

Wade Bishop, Ph.D., Florida State, 2010, Adjunct Assistant Professor — GIS, information policy

Maria Caffrey, Ph.D., University of Tennessee, 2011, Adjunct Assistant Professor — paleo-environmental reconstruction, palynology, quaternary environments

Jon Harbor, Ph.D., Washington (Seattle), 1990, Adjunct Professor — geomorphology, climate change, water resources, land use impact

William Hargrove, Ph.D., University of Georgia, 1988, Adjunct Professor — landscape ecology

Matthew Heric, Ph.D., Virginia Tech, 1996, Adjunct Assistant Professor — GIS, remote sensing, cultural modeling, software development

Chad Lane, Ph.D., Tennessee, 2007, Adjunct Assistant Professor — biogeography

Cheng Liu, Ph.D., Tennessee, 1986, Adjunct Associate Professor — transportation, geographic information systems

Kenneth H. Orvis, Ph.D., UC Berkeley, 1992, Adjunct Associate Professor — landscape, climatology, global change, paleo-climate

Robert Pavlowsky, Ph.D., Wisconsin (Madison), 1995, Adjunct Professor — geomorphology, water quality, soils

Todd Schroeder, Ph.D., Oregon State, 2007, Adjunct Associate Professor — ecology and remote sensing

Francoise Micheline van Riemsdijk, Ph.D., Colorado, 2008, Adjunct Associate Professor — population, migration, urban, gender, qualitative methods

Dali Wang, Ph.D., NY Rensselaer Polytechnic Institute, Adjunct Assistant Professor — environmental engineering

Robert A. Washington-Allen, Ph.D., Utah State University, 2003, Adjunct Associate Professor — biogeography, complex systems, landscape ecology, pastoralism, remote sensing, spatial modeling

EMERITUS FACULTY:

Charles S. Aiken, Ph.D., Georgia, 1969, Professor Emeritus — rural, North America, U.S. South

Thomas L. Bell, Ph.D., Iowa, 1973, Professor Emeritus — location theory, urban, economic, geographic thought and methodology, popular culture

Leonard W. Brinkman, Ph.D., Wisconsin, 1964, Associate Professor Emeritus — historical, North America, Appalachia

Carol P. Harden, Ph.D., Colorado, Boulder, 1987, Professor Emeritus — geomorphology, watershed dynamics, Latin America

Lydia Mihelic Pulsipher, Ph.D., Southern Illinois, 1977, Professor Emeritus — historical, cultural ecology, sustainable development, gender, critical theory

Bruce A. Ralston, Ph.D., Northwestern, 1976, Professor Emeritus — transportation and location, diffusion theory, geographic information science

TEXAS

AUSTIN COMMUNITY COLLEGE

FOR FURTHER INFORMATION WRITE TO: Don Jonsson
at 512-223-4051 or djonsson@austincc.edu

PROGRAMS:

Associate of Arts (A.A.) in Geography

Associate of Science (A.S.) in Geography

NORTHWEST VISTA COLLEGE

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL SUSTAINABILITY

DATE FOUNDED: 1995

DEGREES OFFERED: Associate of Arts; Associate of Science

CHAIR: Scott L. Walker, ScEdD

PROGRAM ADMINISTRATIVE ASSISTANT: Nakotah Terburg

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
<http://alamo.edu/nvc/>

PROGRAMS AND RESEARCH FACILITIES: The Geography and Environmental Sustainability Program at Northwest Vista College in San Antonio, Texas, USA offers an Associate of Arts in Geography and Environmental Sustainability and an Associate of Science in Environmental Science. These 2-year degree programs are aligned to transfer to local and regional 4-year university baccalaureate programs.

The program offers small classes (usually 25 students per class) grounded in collaborative and experiential learning. We offer face-to-face and online courses in Physical Geography, World Regional Geography, Human Geography, Environmental Science I, and Environmental Science II. From time-to-time, courses are offered in a field studies format, for example: Physical Geography in Morocco (2018); Human Geography in Spain (2016); Environmental Science in the Texas Big Bend region (2019).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Admissions information is online at:

<http://alamo.edu/nvc/future-students/admissions/>.

Financial aid and tuition information is online at:

<http://alamo.edu/nvc/future-students/paying-for-college/>.

FACULTY:

Jeff Hall, MAGeo, Texas State University, Instructor

Philip Rodriguez, MAGeo, Texas State University, Instructor

Michael J. Savana, Jr., Ph.D., Touro University International, Instructor

Andrea Trease, MAGeo, Texas State University, Instructor

Scott L. Walker, ScEdD, Curtin University of Technology, Professor and Department Chair

TARLETON STATE UNIVERSITY

DEPARTMENT OF SOCIAL SCIENCES – GEOGRAPHY PROGRAM

DATE FOUNDED: 2016

DEGREES OFFERED: B.S. in Geography/Geographic
Information Systems

MAJORS: 5 Undergraduate Geography/GIS

CHAIR/PROGRAM COORDINATOR: Dr. Opeyemi
Zubair

PROGRAM ADMIN. ASSISTANT: Jeannie Vazquez

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Social Sciences, Box T-0660, Tarleton State University, Stephenville, Texas 76402. Telephone (254) 968-9021. Fax (254) 968-9784. E-mail: zubair@tarleton.edu. Internet: <http://www.tarleton.edu/degrees/bachelors/bs-geographic-information-systems/>

PROGRAMS AND RESEARCH FACILITIES: The Department of Social Sciences at Tarleton State University offers undergraduate majors in Geography/Geographic Information Systems the opportunity to join faculty in their research in geospatial analysis and human geography. The program is student-focused, with a special emphasis on applied research as it relates to Geographic Information Systems/Remote Sensing and Human Geography. Students in the program are offered many opportunities and financial support to present the results of their undergraduate research at numerous meetings. This degree program emphasizes on graduating students on time! Our courses are taught on a rotation, providing students with the flexibility of having most of the required courses taught at least once a semester, and often times twice a semester.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Admission to the undergraduate major program in Geography/GIS is the same as that for admission to the College of Liberal & Fine Arts: <http://www.tarleton.edu/admissions/>. Specifically, the Bachelor of Science in Geographic Information Systems (GIS) is a 120 (4 years) credit hour program which teaches students how to think geographically, how to use geographic computer software programs (such as ArcGIS), and how to create maps and databases to solve contemporary world issues such as global climate change and resource management. A teacher certification option is available in the program to teach at the secondary level.

FACULTY:

Kelly Lemmons, Ph.D., Texas A&M University, 2014, Assistant Professor — Human Geography, Geography of Travel, International Experience, and Study Abroad, GIS

Opeyemi Zubair, Ph.D., University of Missouri-Kansas City, 2016, Assistant Professor — Applied Geography, GIS, Remote Sensing, Cartography, Landscape Modeling, Human-Environment Interactions, Wetlands

ADJUNCT FACULTY:

Connie Brownson, M.S., Texas State University — Human Geography, Military Geography

John Martins, M.S., Plattsburgh State University — Human Geography, Navigation, Military Geography

TEXAS A&M UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1968

GRADUATE PROGRAM FOUNDED: 1968

DEGREES OFFERED: B.S. Geography, B.S. Geographic
Information Science and Technology, B.S.
Environmental Studies, B.S. Spatial Sciences,
M.S., Ph.D.

GRANTED 9/1/17-8/31/18: 49 Bachelors, 5 Masters, 2 Ph.D.

STUDENTS IN RESIDENCE: 625 Majors, 38 Masters, 34
Ph.D. Geography, Geographic Information Sciences and
Technology, Environmental Studies and Spatial Sciences
Majors, Masters, Ph.D.

NOT IN RESIDENCE: 12 B.S., 9 M.S., 21 Ph.D.

HEAD: David M. Cairns

DEPARTMENT ADMINISTRATIVE ASST: Carria
Collins

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Graduate Director, Department of Geography, College of Geosciences, MS 3147, Texas A&M University, College Station, Texas 77843-3147. Telephone (979) 845-7141. Fax (979) 862-4487. E-mail: geog-advisor@geog.tamu.edu. Internet: <https://geography.tamu.edu/>.

Online catalog can be obtained from Admissions, at
<http://catalog.tamu.edu/>.

An application is available online at
<https://www.applytexas.org/> or <http://admissions.tamu.edu/>.

PROGRAMS AND RESEARCH FACILITIES: The department offers advanced training in five themes. *Physical geography* emphasizes the study of surficial processes in the fields of geomorphology, biogeography, climatology and hydrology. *Human geography* includes programs in cultural, historical, economic, urban, and political geography. A third theme integrates *Human-environment interactions*; specific foci are conservation and development, cultural and political ecologies, environmental history, environmental justice, environmental policy, water resources and land-use change. The Geographic Science and Technology theme aims to provide modern training in theory and application of GIS and remote sensing.

The department maintains a comprehensive spatial analysis and mapping laboratory, including both workstation and networked PC-based hardware and software for geographical information systems, remote sensing, digital image processing and computer mapping and graphics. There are three physical geography teaching laboratories and six research laboratories. The equipment and facilities include standard gear for field surveying and mapping, soil and sediment analysis, vegetation analysis, water quality and hydrology, as well as specialized equipment. Students and faculty are actively involved in the interdisciplinary research and teaching activities in the College of Geosciences. The College comprises programs in geology, geophysics, meteorology, oceanography and geography. The department is a partner in the College's Light Stable Isotope Analytical Facility. Geographers participate in other interdisciplinary groups or facilities, including the George Bush School of Government and Public Service, Whole Systems Genomics Institute, Applied Biodiversity Science Program, Center for Science and Technology Policy and Ethics, the Spatial Sciences Laboratory, Texas Center for Climate Studies, The Texas A&M Water Program, and the Center for the Study of First Americans. The department collaborates with the Department of Ecosystem and Science Management to administer

Graduate Certificate Programs in Remote Sensing and Geographic Information Sciences.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: This program is on the semester system. The B.S. degree requires 120 credit hours of which 55 must be in geography. Applicants are evaluated on an individual basis that assesses academic achievement, potential for success, and other factors. No single factor may be used for the determination of admission or rejection of an applicant. The department offers a B.S. in Geography and a B.S. in Geographic Information Science and Technology. The department offers minors in Geography and Geoinformatics, and administers B.S. degree programs in Environmental Studies and in Spatial Sciences.

Graduate: Three degree programs are offered by the department: M.S., M. Geosciences, and Ph.D. Applicants must submit an application form and fee, undergraduate transcript and graduate transcript (Ph.D. only), GRE scores (verbal and quantitative), three letters of recommendation and a statement of purpose. Applications for Fall should be submitted by January 1st, for full consideration for fellowships and scholarships. Research and teaching assistantships and fellowships are available through the Department and the University.

FULL AND PART-TIME FACULTY:

George Allen, Ph.D., The University of North Carolina at Chapel Hill, 2017, Assistant Professor — global river water resources and fluvial geomorphology, data remote sensing analysis, geographic information systems, and fieldwork

Michael Bishop, Ph.D., Indiana State University, 1987, Professor & Haynes Chair in Geosciences — remote sensing, GIS, geomorphometry, spatial analysis and modeling, mountain geomorphology, cryospheric sciences

Rodrigo J. Bombardi, Ph.D., University of California, 2013, Assistant Professor — climatology, monsoon systems, regional and global climate modeling, and predictability studies

Christian Brannstrom, Ph.D., Wisconsin, 1998, Professor and Associate Dean for Academic Affairs — political/cultural ecology, historical geography, agriculture, Latin America

John Connors, Ph.D., Arizona State University, 2015, Assistant Professor — social-ecological systems, focused primarily on issues of food system sustainability and processes of land cover change.

David M. Cairns, Ph.D., Iowa, 1995, Professor and Department Head — biogeography, landscape ecology, ecosystem modeling, GIS applications

Anthony M. Filippi, Ph.D., South Carolina 2003, Associate Professor — remote sensing, GIS, ocean optics, machine learning

Oliver W. Frauenfeld, Ph.D., University of Virginia, 2003, Associate Professor — synoptic climatology, surface-atmosphere interactions, climate change

John R. Giardino, Ph.D., P.G., Nebraska, 1979, Professor in Geology and Geophysics Department — periglacial, engineering and fluvial geomorphology, Earth science education (joint appointment with Geology and Geophysics)

Daniel Goldberg, Ph.D., University of Southern California, 2010, Assistant Professor — GIS, CyberGIS, GIS Programming & Algorithms, Spatial Databases, HealthGIS (joint appointment with Computer Science)

Burak Güneralp, Ph.D., Illinois, Urbana-Champaign, Assistant Professor — urbanization and global environmental change, urban land-use change, interactions between socio-economic and biophysical systems, systems modeling, remote-sensing applications

Inci Güneralp, Ph.D., Illinois, Urbana-Champaign, Associate Professor — fluvial geomorphology, lowland rivers, spatio-temporal modeling, human impact on fluvial systems

Wendy Jepson, Ph.D., UCLA, 2003, Professor — land-use and land-cover change, political ecology, economic geography, water resources, environmental justice, Latin America

Andrew G. Klein, Ph.D., Cornell, 1997, Professor and Undergraduate Program Director — remote sensing, GIS, glacial geomorphology, cryosphere, hydrology

Charles W. Lafon, Ph.D., Tennessee, 2000, Professor and Assistant Department Head — biogeography, vegetation dynamics

Julie Loisel, Ph.D., Lehigh University, 2012, Assistant Professor — climate change ecology, paleoclimate reconstructions, high-latitude ecosystem dynamics, peatland carbon cycling, global biogeochemical cycling

Stacey D. Lyle, Ph.D., University of Georgia, 2003, Assistant Professor of Practice — professional land surveying, geodesy, geomatics, petroleum geoscience, GIS

Douglas, B. McRoberts, Ph.D., Texas A&M University, 2014, Research Assistant Professor — climate, drought, and statistical modeling; current research focuses on the creation of an algorithm for detecting and minimizing biases in radar precipitation estimates

Kathleen O'Reilly, Ph.D., Iowa, 2002, Associate Professor and Graduate Director — political/cultural ecology, gender, water resources, South Asia, queer studies

Wendy W. Patzewitsch, Ph.D., Texas A&M University, 2007, Instructional Assistant Professor — historical geography, Texas water resources

Erik Prout, Ph.D., Louisiana State, 2001, Instructional Associate Professor — cultural and political geography

E. Brendan Roark, Ph.D., California, Berkeley, 2005, Associate Professor and Director of Environmental Programs — paleoceanography, geochemistry, earth system sciences, corals, deep-sea corals

Jonathan M. Smith, Ph.D., Syracuse, 1991, Professor — cultural, historical, history and philosophy of geography, United States

Vatche P. Tchakerian, Ph.D., UCLA, 1989, Professor — desert and coastal geomorphology, aeolian environments, Quaternary (joint appointment with Geology and Geophysics)

Courtney M. Thompson, Ph.D., University of Idaho, 2016, Assistant Professor — studying human-environment geography, examining natural hazards impacts on society through the use of vulnerability and resilience assessments, GIS and spatial statistics

EMERITI FACULTY:

Robert S. Bednarz, Ph.D., Chicago, 1975, Professor Emeritus — spatial thinking and cognition, geographic education, economic, urban, property value, taxation

Sarah W. Bednarz, Ph.D., Texas A&M, 1992, Professor Emerita — geography education, human geography, curriculum development, environmental education, GIScience and education, education for sustainable development

Peter J. Hugill, Ph.D., Syracuse, 1977, Professor Emeritus — cultural/historical, political, world system theory, landscape, Anglo-America

Clarissa T. Kimber, Ph.D., Wisconsin, 1969, Professor Emerita — plant geography, sustainable agriculture, Caribbean

James B. Kracht, Ph.D., Washington, 1971, Professor Emeritus — geographic education, curriculum development, urban, United States

AFFILIATED AND GRADUATE FACULTY:

Daikwon Han, Ph.D., SUNY-Buffalo, 2003, Associate Professor — Spatial Epidemiology, Environmental Health/Exposure Assessment, Health GIS and Geography (joint appointment with Epidemiology and Biostatistics, School of Public Health)

Zenon Medina-Cetina, Ph.D., The John Hopkins University, 2006, Associate Professor — Stochastic Geomechanics, Risk, Reliability and Sensibility Analysis, Geostatistics: Probabilistic Site Characterization, Integrated Site Characterization: Geologic, Geophysical and Geotechnical

Jim Norwine, Ph.D., Indiana State, 1971, Regents Professor, Texas A&M University-Kingsville, Kingsville, TX — climate, philosophy of geography

David P. Rechless, Ph.D., Penn State University, 2015, Assistant Professor (joint appointment with Department of Marine Sciences, Texas A&M University at Galveston) — climate change, cartography, and hazards

Douglas J. Sherman, Ph.D., Toronto, 1983, Professor and Chair, University of Alabama — geomorphology, coastal and aeolian environments

John D. Vitek, Ph.D., University of Iowa, 1973, Department of Geology and Geophysics Professor — periglacial geomorphology, earth science education

TEXAS CHRISTIAN UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 2016

DEGREES OFFERED: B.A., B.S. in Geography

GRANTED 9/1/17-8/15/18: 7 Bachelors

MAJORS: 31 Majors

CHAIR: Ben Tillman

DEPARTMENT ADMINISTRATIVE ASSISTANT:

Melissa Payton

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Benjamin F. Tillman, Geography Department, TCU Box 297280, Scharbauer Hall 2004, Fort Worth, Texas 76129. Telephone (817) 257-4377. Fax (817) 257-5650. E-mail: b.tillman@tcu.edu.

PROGRAMS AND RESEARCH FACILITIES: The Geography Program offers Bachelor of Arts and Bachelor of Science degrees that require a minimum of 124 hours. Students majoring in geography must complete 30 hours for the B.A. degree and 42 hours for the B.S. degree. Required courses include World Regional Geography, Human Geography, and GIS. Students may select additional courses from a menu of regional and topical courses. Texas Christian University offers Geography majors the opportunity to participate with faculty in their research. Field trips are a component of most upper-division geography courses and summer study abroad programs are available.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Texas Christian University operates on the semester system. Undergraduate applicants must satisfy the general admission requirements for the University. Detailed information concerning admission requirements and financial aid can be found on the University's web page www.tcu.edu.

FACULTY:

Ashley Coles, Ph.D., University of Arizona, 2013, Assistant Professor — human-environment interactions, hazards, development, science and technology studies, and Latin America

Sean M. Crotty, Ph.D., San Diego State University and University of California at Santa Barbara, 2012, Assistant Professor — economic, urban, North America

Jeffrey B. Roet, Ph.D., Northwestern, 1982, Instructor — urban, cultural, historical, United States, Western Europe

Andrew Schoolmaster, Ph.D., Kent State 1979, Dean of AddRan College of Liberal Arts — applied

Benjamin F. Tillman, Ph.D., Louisiana State University, 1999, Associate Professor — cultural, historical, Latin America

Kyle Walker, Ph.D., University of Minnesota, 2011, Associate Professor — GIS, urban geography

TEXAS STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1965

GRADUATE PROGRAM FOUNDED: 1983

DEGREES OFFERED: B.A., B.S. in Geography; B.S. in

Resource and Environmental Studies, Geographic Information Science, Physical Geography, Water Studies, Urban and Regional Planning; Certificates in GIS, Location Analysis, Environmental Interpretation, and Water Resources Policy; Master of Applied Geography (M.A.G.); Master of Science in Geography (M.S.); Ph.D. in Geography, Ph.D. in Geographic Information Science, Ph.D. in Geographic Education

GRANTED 9/1/16-8/31/17: 197 Bachelors, 24 Masters, 9 Ph.D.

STUDENTS IN RESIDENCE: 569 Majors, 59 Masters, 52 Ph.D.

CHAIR: Alberto Giordano

ASSOCIATE CHAIR: Yongmei Lu

PROGRAM COORDINATORS: Brian

Cooper, Undergraduate Program Coordinator; Stella LoPachin, Staff Undergraduate Administrative Assistant; Ben Zhan, Graduate Program Coordinator; Allison Glass, Staff Graduate Advisor

DEPARTMENT ADMINISTRATIVE ASSTS: Angelika

Wahl, Office Manager; Joyce Wilkerson, Patricia Hell-Jones

FOR CATALOG AND FURTHER INFORMATION: 1) about the Department: Angelika Wahl (AL07@txstate.edu), 2) about Undergraduate programs: Undergraduate Director of Admissions, Undergraduate Admissions Office, Texas State University, San Marcos, Texas 78666; Brian Cooper (BC31@txstate.edu) Undergraduate Program Coordinator; or Stella LoPachin (SL15@txstate.edu), Staff Undergraduate Administrator; 3) about Graduate programs: Ben Zhan (FZ01@txstate.edu), Graduate Program Coordinator, or Allison Glass (AM13@txstate.edu), Staff Graduate Advisor. Telephone (512) 245-2170. Fax (512) 245-8353. Website: www.geo.txstate.edu (for information on academic programs, faculty, facilities, research centers, schedules, student organizations).

PROGRAMS AND RESEARCH FACILITIES:

Undergraduate: General geography majors are available for both B.A. and B.S. degrees. Major concentrations within the B.S. degree program are also available in resource and environmental studies, urban and regional planning, geographic information science, water studies, and physical geography. A teacher certification option is also available. Numerous scholarships and internship opportunities are likewise available.

Certificate Programs: The department offers four certificate programs in GIS, Location Analysis, Environmental Interpretation, and Water Resources Policy, which enable students to gain in-depth knowledge and skills in these critical areas.

Graduate, M.A.G.: The Master of Applied Geography degree provides the geographic training and skills necessary to solve real-world problems. The 33-hour M.A.G. program includes a 9-hour required core and a major in: 1) general geography, 2) resource and environmental studies, 3) geographic information science, or 4) geographic education. Students complete a 3-hour directed research project. Internships are also available.

Graduate, M.S.: The Master of Science in geography program gives highly qualified students exposure to geographic theory and research

at the pre-doctoral level. Programmatic emphases include environmental geography, geographic information science, geographic education, and other specialty areas in geography represented by the current research interests of the faculty. The 30-hour M.S. curriculum includes 9 hours of core courses, 15 hours of additional course work, and a 6-hour master's thesis.

Graduate, Ph.D.: Ph.D. in geography, geographic information science, and geographic education. The Ph.D. is a research-based degree that allows doctoral graduates to fill professional positions in universities, public agencies, and private enterprises. The Ph.D. degree requires a minimum of 31 hours of course work, including 9 hours of core courses beyond the master's degree, plus a minimum of 15 hours of dissertation research and writing.

Research Facilities: The department is actively involved with numerous research programs and has three internal research centers: The Gilbert M. Grosvenor Center for Geographic Education (Director Richard Boehm, RB03@txstate.edu), The National Center for Research in Geography Education (Co-Directors Richard Boehm, RB03@txstate.edu and Michael Solem, MS32@txstate.edu), the Texas Center for Geographic Information Science (Director Nate Currit, NC17@txstate.edu), and the Institute for Government Innovation (Director Rebecca Davio R_D178@txstate.edu). The University is a member of the University Consortium for Geographic Information Science (UCGIS) and the University Corporation for Atmospheric Research (UCAR).

The department has more than 450 PCs linked via servers that support six teaching labs and seven research labs through an extensive library of software applications. For more information about the department's computing infrastructure, visit our Website at www.geo.txstate.edu.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Semester system. Department tours are available during semesters. The University participates in a variety of federal, state, and local financial aid programs. Application may be obtained through high school counselors or the Office of Financial Aid, Texas State University (Web site: www.txstate.edu).

Graduate, M.A.G.: Semester system. Applicants must submit official transcripts indicating a 3.2 GPA or higher in their last 60 hours of undergraduate course work, three letters of recommendation, resume, and a statement of purpose outlining academic interests. All international students must submit an internet based (iBT) TOEFL score with at least a total minimum score of 78. The TOEFL is required of international applicants who are non-native speakers of English.

All applicants must submit official GRE scores. Applications must arrive at the Graduate College no later than May 1 for fall admission and October 15 for spring admission for domestic applicants. The deadline for international application is April 15. Assistantships for Master's degree students are awarded on a competitive basis and currently pay a minimum of \$13,097 per nine-month academic year and include a waiver of out-of-state tuition. Students are still responsible for in-state tuition and fees. For full consideration for assistantships, applications should be received by February 1. Occasionally, assistantship funds may still be awarded after this date. Master students can retain assistantships for up to two years from initial entry into the program.

Graduate, MS.: Same as M.A.G., except applicants must have a 3.4 GPA or higher in their last 60 hours of undergraduate course work. For assistantship information, see M.A.G. above.

Graduate, Ph.D.: Semester system. Applicants must have a 3.5 GPA on a 4.0 scale in their master's course work in geography or a closely related field, and submit three letters of recommendation, curriculum

vita, a statement of purpose, and arrange submission of official GRE scores. All international students must submit an internet based (iBT) TOEFL score with at least a total minimum score of 78. The TOEFL is required of international applicants who are non-native speakers of English. No conditional admissions are accepted.

All application materials must be submitted to the Graduate College by May 1; for international students, by April 15. Ph.D. graduate assistantships are awarded on a competitive basis and currently pay a minimum of \$26,000 for nine months and include waiver of out-of-state tuition. Students are still responsible for in-state tuition and fees. For full consideration for assistantships, applications should be received by January 15th. Occasionally, assistantship funds may still be awarded after this date. Ph.D. students can retain Ph.D. assistantships for up to four years from initial entry into the program.

FACULTY:

Thomas Ballinger, Ph.D., Kent State, 2015, Assistant Professor — climatology, climate and environmental change, cryosphere-climate interaction, synoptic meteorology
R. Denise Blanchard, Ph.D., Colorado at Boulder, 1992, Professor — natural and environmental hazards, economic, environmental studies, historical, research methods
Sarah Blue, Ph.D. UCLA, 2004, Associate Professor — Latin America, population, migration, qualitative methods
Richard G. Boehm, Ph.D., Texas at Austin, 1975, Professor and Jesse H. Jones Distinguished Chair of Geographic Education — geographic education, economic
David R. Butler, Ph.D., Kansas, 1982, Texas State University Regents' Professor — geomorphology, natural hazards, mountain environments and environmental change, biogeography
Mark L. Carter, M.A.G., Texas State, 1994, Senior Lecturer — land use analysis, quantitative methods, energy
Edwin Chow, Ph.D., South Carolina, 2005, Associate Professor — GIScience, internet GIS, GIS based-modeling, GIScience programming
Brian Cooper, Ph.D., Texas State, 2012, Senior Lecturer — world regional, U.S. and Canada, economic
Nathan Currit, Ph.D., Pennsylvania State, 2003, Associate Professor — remote sensing and land cover change, GIScience, uncertainty and change in human-environment systems
Rebecca Davio, Ph.D., Texas at Austin, 2005, Assistant Professor of Practice — solid waste management, land management
Rene DeHon, Ph.D., Texas Tech, 1970, Senior Lecturer — geology, mineralogy, petrology, planetary geology
Jennifer Devine, Ph.D., California at Berkeley, 2013, Assistant Professor — political, Latin America, nature and heritage tourism, qualitative methods
Richard W. Dixon, Ph.D., Texas A&M, 1996, Professor — climatology, meteorology, oceanography, hazards, quantitative methods, environmental
Richard A. Earl, Ph.D., Arizona State, 1983, Professor — water resources, environmental change and management, field methods, physical
Lawrence E. Estaville, Ph.D., Oklahoma, 1984, Professor — ethnic, business, geographic education
Alberto Giordano, Ph.D., Syracuse, 1999, Professor and Chair — cartography, historical GIS, Holocaust and genocide, spatial applications of forensic anthropology
Ronald Hagelman, III, Ph.D., Texas State, 2001, Associate Professor — environmental, hazards and disaster, historical, land management and conservation, urban environment/agriculture
Donald A. Huebner, Ph.D., Texas at Austin, 2002, Senior Lecturer — Texas, environmental management, field methods, quantitative methods
Suzon Jammes, Ph.D., Strasbourg, France, 2009, Senior Lecturer — geology, geophysics
Jennifer Jensen, Ph.D., Idaho, 2009, Associate Professor — Lidar, remote sensing, biogeography, land use/land cover change

Injeong Jo, Ph.D., Texas A&M, 2011, Assistant Professor — geographic education, geospatial technologies for education, assessment in geography

Jason Julian, Ph.D., North Carolina, 2007, Associate Professor — water resources, environmental services, fluvial geomorphology

Yanan Li, Ph.D., University of Tennessee, 2015, Assistant Professor — geomorphology, physical, climatology, natural hazards, glacial geomorphology, GIS applied to physical geography, paleoclimatology

Timothy Loftus, Ph.D., Southern Illinois University Carbondale, 2000, Professor of Practice and Meadows Endowed Chair in Water Conservation — water conservation and efficiency, water supply planning and policy, watershed planning

Yongmei Lu, Ph.D., SUNY at Buffalo, 2001, Professor and Associate Chair — GIScience, urban and regional studies, crime, health, China and East Asia

Robert Mace, Ph.D., University of Texas at Austin, 1998, Professor of Practice — Water policy, policy and science, water resources and planning

Kimberly Meitzen, Ph.D., South Carolina, 2011, Assistant Professor — fluvial processes, geomorphology, river basin management, biogeography

Osvaldo Muniz, Ph.D., Tennessee, 1991, Professor — geographic education, Latin America, online learning methods, global collaboration, international flows

Colleen Myles, Ph.D., California at Davis, 2012, Assistant Professor — environmental management, cultural ecology, urban-rural fringe, qualitative methods

Andrew Sansom, Ph.D., Texas State, 2013, Professor of Practice — water resources, parks and protected places, conservation leadership

Eric Sarmiento, Ph.D., Rutgers, 2015, Assistant Professor — nature/society analysis, urban, cultural

Alexander Savelyev, Ph.D., Pennsylvania State, 2015, Assistant Professor — geovisualization of textual information, social media, cartography

Michael Solem, Ph.D., Colorado at Boulder, 1999, Research Professor — geographic education

John P. Tiefenbacher, Ph.D., Rutgers, 1992, Professor — hazards, human dimensions of wildlife, environmental problems, Mexico borderlands, States of the Former Soviet Union, air quality

Christi Townsend, Ph.D., Texas State, 2012, Senior Lecturer — physical, research methods, world

Dolores van der Kolk, Ph.D., Texas at Austin, 2016, Lecturer — geology, structural geology

Russell Weaver, Ph.D., University at Buffalo, 2012, Assistant Professor — urban change and decline, GIScience, quantitative methods

Yihong Yuan, Ph.D., California at Santa Barbara, 2013, Assistant Professor — GIScience, spatio-temporal data mining, GIScience programing

F. Benjamin Zhan, Ph.D., SUNY at Buffalo, 1994, Professor — GIScience, health and the environment, transportation and network science

ADJUNCT FACULTY:

Neil Kucera, J.D., Houston, 1986; M.A.G., Texas State, 2001, Lecturer — environmental law, energy and resource management

Jo Beth Oestreich, Ph.D., Texas at Austin, 2002, Lecturer — geographic education

Shelley Plante, M.A.G., Texas State, 2007, Lecturer — nature and heritage tourism

Cathryn Springer, Ph.D., Texas State, 2007, Lecturer — world, U.S. and Canada

EMERITUS FACULTY:

Byron Augustin, D.A., Northern Colorado, 1975, Regent's Professor and University Distinguished Professor Emeritus — conservation, Latin America, geographic education, Middle East

Brock J. Brown, Ph.D., Oklahoma, 1992, Distinguished Professor Emeritus — geographic education, cultural ecology, historical southwest, urban

Frederick A. Day, Ph.D., Ohio State, 1982, Professor — population, economic development, East and Southeast Asia

J. Ronald Eyton, Ph.D., Illinois, 1974, Professor — remote sensing, computer cartography, quantitative methods

James R. Kimmel, Ph.D., Texas at Austin, 1992, Professor — nature and heritage tourism, Southwestern geography, river studies

Robert D. Larsen, Ph.D., Wisconsin at Madison, 1976, Distinguished Professor Emeritus — urban and regional planning, land use planning and environmental policy, solid waste management, transportation

Susan M. Macey, Ph.D., Illinois, 1982, Professor — environmental hazards, aging, medical, GIScience

James R. Petersen, Ph.D., Utah, 1981, Distinguished Professor Emeritus — physical, geomorphology, geographic education

David Stea, Ph.D., Stanford, 1964, Professor — spatial cognition, environmental perception, sustainable development

Philip W. Suckling, Ph.D., British Columbia, 1977, Professor — climatology, natural hazards

TECHNICAL STAFF:

Daniel D. Hemenway, M.S., Alberta, 1995, Senior Computer Systems Analyst

Charles Robinson, B.B.A., Texas State, 1995, Computer Systems Analyst

TEXAS TECH UNIVERSITY

GEOGRAPHY PROGRAM, DEPARTMENT OF GEOSCIENCES

DATE FOUNDED: 1971

GRADUATE PROGRAM FOUNDED: 2011

DEGREES OFFERED: BA (Geography), MS (Geography), PhD (Geosciences)

GRANTED 8/1/16-8/1/17: 16 Bachelors, 2 Masters

STUDENTS IN RESIDENCE: 50 Undergraduate, 9 Masters, 9 PhD

CHAIR: Jeffrey A. Lee

DEPARTMENT ADMINISTRATIVE ASST: Hannah Webb, Catherine Massengale

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Dr. Jeffrey A. Lee, Department of Geosciences, MS 1053, Texas Tech University, Lubbock, TX 79409-1053. Telephone (806) 742-3102. Fax (806) 742-0100. E-mail: jeff.lee@ttu.edu. Web Page: www.depts.ttu.edu/geosciences

PROGRAMS AND RESEARCH FACILITIES:

The Geography Program offers a Bachelor of Arts degree that requires a minimum of 120 hours. Students majoring in geography must complete 31 hours in geography; two writing-intensive seminars are required. This broad freedom of choice allows students to tailor their program to meet their specific interests. At the graduate level, the Geography Program offers an MS degree and participates in the Geosciences PhD (adaptable to both human and physical geography). A graduate certificate program in GIS requires 12 hours of graduate GIS courses plus a leveling course, if needed.

The department has three GIS teaching labs (20, 18 and 16 seat), and one physical geography lab. As part of the Department of Geosciences, students have access to meteorology, geology, geochemistry, and geophysics research laboratories.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University operates on a semester system. Undergraduate and graduate applicants must satisfy the general admissions requirements for the University. Detailed information concerning admission requirements and financial aid can be found on the University's web page www.ttu.edu.

FACULTY:

Karin Ardon-Dryer, Ph.D., Tel Aviv University, 2012, Assistant Professor — cloud physics, aerosols-cloud interaction, geohealth, aerosol-health interaction air pollution & air quality, dust storms

Lucia S. Barbato, M.A., UCLA, 1988, GISP, Instructor, Senior Research Associate, Center for Geospatial Technology — geographic information systems, GIS in water resources, geodatabase design

Guofeng Cao, Ph.D., UCSB, 2011, Assistant Professor, Co-Director, Center for Geospatial Technology — GIS, geostatistics, spatial uncertainty, cyberinfrastructure, GIS in public health and environmental science

Perry L. Carter, Ph.D., Ohio State, 1998, Associate Professor — cultural, social, economic, tourism and museum geographies, geographies of race, methodology

Gary S. Elbow, Ph.D., Pittsburgh, 1972, Professor, joint appointment Honors College — cultural, settlements and land utilization, development planning, Latin America, geography education

Cameron Griffith, ABD, Indiana, Instructor — GIS, geolocation, archaeology, remote sensing, rock art, agent based modeling, applied computational demography.

Linda L. Jones, M.A., UCLA, 1986, Instructor and Lab Director — physical geography, human geography, geography & technology, geography education

Jeffrey A. Lee, Ph.D., Arizona State, 1990, Professor — physical geography, geomorphology, aeolian processes, field methods, science education

Kevin R. Mulligan, Ph.D., Texas A&M, 1997, Associate Professor — GIS, remote sensing, physical geography, arid environments, aeolian processes

Patricia Solis, Ph.D., Iowa, 2002, Research Associate Professor, Co-Director, Center for Geospatial Technology — geographic technologies, higher education, developing regions, climate change

Zhe Zhu, Ph.D., Boston University, 2013, Assistant Professor — remote sensing, land use/land cover change, time series analysis, climate change

UNIVERSITY OF NORTH TEXAS

DEPARTMENT OF GEOGRAPHY AND THE ENVIRONMENT

DATE FOUNDED: 1901

GRADUATE PROGRAM FOUNDED: 1995

DEGREES OFFERED: B.A., B.S. in Geography; M.S. in Geography; Ph.D. in Environmental Science; Ph.D. in Information Science

GRANTED 9-1-16 to 8-31-17: 36 Bachelors, 13 Masters (Geography)

STUDENTS IN RESIDENCE: 152 Bachelors, 31 Masters (Geography)

INTERIM CHAIR: C. Reid Ferring

DEPARTMENT ADMINISTRATIVE ASSISTANT: Tami Deaton

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography and the Environment, University of North Texas, 1155 Union Circle #305279, Denton, Texas 76203-5017.

Telephone: (940) 565-2091. Fax: (940) 369-7550. E-mail: geog@unt.edu. Internet: www.geography.unt.edu.

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE: Our bachelor's program emphasizes the acquisition of basic research skills, geographic concepts, and techniques, and their applications, preparing students for employment in diverse areas of high demand in the job market or advanced study. Students select courses from physical and human geography, as well as geospatial technology, customizing degree plans to areas of interest. For example, recent students have emphasized: environmental management; water, food, and energy resources; geospatial technologies and GIS; urban and economic geography; globalization and development; medical geography and public health; ecosystems geography; geomorphology and geology; and environmental archaeology. Both undergraduate and graduate students also have access to internships; the department has collaborated with 80 government agencies and companies in the Dallas-Fort Worth metropolitan area. In addition to bachelor's degrees in geography, the department offers minors in geography, geology, and archaeology.

GRADUATE: Our graduate curriculum emphasizes research and communications skills, preparing students to meet the challenges of an increasingly globalized and connected world through engagement with theory and practice. In consultation with their advisor, students create degree plans involving coursework and independent research. Degree plans reflect student interests and faculty expertise in four core concept areas — earth science and modeling, human systems and the environment, environmental archaeology, and globalization and development — as well as geospatial technology. For example, recent students have studied: health geography and emergency response; environmental archaeology; GIS and remote sensing; coastal processes and geomorphology; ecosystems and water resources; urban and economic geography; coastal geomorphology; and resource and energy governance. The department offers both research and professional master's degree options.

CERTIFICATE IN GEOGRAPHIC INFORMATION SYSTEMS (GIS): The department offers a five-course certificate providing the conceptual understanding and technical proficiency necessary to apply GIS in various settings.

CERTIFICATE IN ECONOMIC GEOGRAPHY: The department offers a seven-course certificate in collaboration with the Economic Department.

RESEARCH, FACILITIES, AND EQUIPMENT: Funded by many agencies, faculty research is often interdisciplinary, involving fieldwork in the U.S. and numerous other countries. Presently, the department is very active in Latin America, China, South and Southeast Asia, the United States and Canada, West Africa, and Transcaucasia. The department is located in a well-equipped, modern building with an open atmosphere conducive to faculty, staff, and student interaction. Extensive, well-equipped classrooms and laboratories support teaching and research in various aspects of geography and archaeology. We have ample office space for graduate students, as well as informal gathering areas and formal meeting rooms.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The department conducts a holistic review of applicants for evidence of potential success in the graduate program (www.geography.unt.edu). Master's teaching and research assistantships carry competitive monthly stipends, benefits, and an out-of-state tuition waiver. In-state tuition awards for teaching and research assistants are also available on a competitive basis. Applications submitted by January 31 are assured consideration for all available funding opportunities.

FACULTY:

- Waqar Ahmed, Ph.D., Clark University, 2007, Associate Professor*
— socio-economic impacts and manifestations of capitalism;
global governance institutions; corporate power and foreign
direct investments; nature-society relations; state-society
relations
- Ipsita Chatterjee, Ph.D., Clark University, 2007, Associate Professor*
— economic, cultural, and geopolitical impacts of globalization;
urban process under capitalism in relation to class, race, and
gender
- Pinliang Dong, Ph.D., University of New Brunswick, 2003, Professor*
— geographic information science; remote sensing
- C. Reid Ferring, Ph.D., University of Texas, Dallas, 1993; Ph.D.,
Southern Methodist University, 1980, Professor* — prehistory;
geochronology; soils geomorphology; fluvial processes;
paleoenvironments; Western Eurasia
- Matthew Fry, Ph.D., University of Texas, Austin, 2008, Associate
Professor* — human-environment; energy and resource
governance; cultural and political ecology; Latin America and
Texas
- Paul F. Hudak, Ph.D., University of California, Santa Barbara, 1991,
Professor* — environmental monitoring and remediation;
geologic hazards; wetlands; water resources
- Lu Liang, Ph.D., University of California, Berkeley, 2015, Assistant
Professor* — GIS; remote sensing; environmental health
- Kent McGregor, Ph.D., University of Kansas, 1982, Associate
Professor* — meteorology; climatology; water resources; remote
sensing
- Lisa Nagaoka, Ph.D., University of Washington, 1999, Associate
Professor* — zooarchaeology; evolutionary ecology;
conservation; biogeography
- Joseph R. Oppong, Ph.D., University of Alberta, Edmonton,
1992, Professor* — cultural geography; medical geography;
location-allocation models; quantitative methods
- Feifei Pan, Ph.D., Georgia Institute of Technology, 2002, Associate
Professor* — hydrology; water resources; modeling
- Alexandra G. Ponette-Gonzalez, Ph.D., Yale University, 2009,
Associate Professor* — global environmental change; terrestrial
ecosystems; biogeochemistry; environmental services
- Murray D. Rice, Ph.D., University of Saskatchewan, 1995, Professor*
— applied economic geography; retail geography; urban and
regional economic development
- Chetan Tiwari, Ph.D., University of Iowa, 2008, Associate Professor*
— medical geography; GIS programming; computational
geography
- Harry F.L. Williams, Ph.D., Simon Fraser University, 1989, Professor*
— geomorphology; paleotempestology; hurricane impacts
- Steven J. Wolverton, Ph.D., University of North Texas, 2007; Ph.D.,
University of Missouri, 2000, Professor* — paleozoology;
conservation ecology; zooarchaeology; environmental
archaeology

ADJUNCT FACULTY:

- Aldo Avina, M.S., University of North Texas, 2010* — introductory
GIS
- Johnny Byers, M.S., University of North Texas, 2008* — earth science;
environmental archaeology
- Mara Hedrich, M.S., University of North Texas, 2012* — earth science

UNIVERSITY OF TEXAS AT AUSTIN

DEPARTMENT OF GEOGRAPHY AND THE ENVIRONMENT

DATE FOUNDED: 1949**GRADUATE PROGRAM FOUNDED:** 1950**DEGREES OFFERED:** B.A., M.A., Ph.D.**GRANTED: 09/01/16-08/31/17:** 107 Bachelors, 4 Masters, 2
Ph.D.**STUDENTS:** 572 Majors, 13 Masters, 15 Ph.D.**CHAIR:** Sheryl Luzzadder-Beach**DEPARTMENT GRADUATE COORDINATOR:** James
Gunter

FOR FURTHER INFORMATION WRITE TO: Department of
Geography and the Environment, The University of Texas at Austin,
Austin, Texas 78712-1098 Telephone (512) 232-1595 Fax (512) 471-
5049. E-mail: teal@austin.utexas.edu
Internet: <http://www.utexas.edu/cola/depts/geography/>

PROGRAMS AND RESEARCH FACILITIES:

The Department offers the B.A. in Geography with several areas of
concentration, including Environmental Resource Management,
Cultural Geography, GISc, Landscape Ecology and Biogeography,
Earth Science, and Urban Geography. It also offers a B.A. in Urban
Studies, a B.A. in Sustainability Studies, a B.S. in Environmental
Science, the M.A. and Ph.D. in Geography, and a joint Ph.D. in
Geography and M.S. in Community and Regional Planning.

Graduate students work closely with their supervising professors to
develop individualized, original research projects. Faculty and
graduate students have contributed in many ways to understanding
and managing earth's diverse cultural and physical environments,
ranging from local to global scales across the full range of human
history. Current areas of faculty research include Space, Place, and
Social Worlds; Environmental Changes and Surface Processes; and
Digital Landscapes. The faculty has always had a strong international
orientation and is especially well prepared to guide students in
research in Latin America, South Asia, Africa, the Middle East, and
Europe, as well as field research in the Southwestern and Western
regions of the United States. Field work and archival investigation are
important parts of student research, and many pursue training in
languages and field methods. Computer and laboratory techniques
serve the needs of both scientific and humanistic research and
teaching; such tools include Geographic Information Science and the
laboratory analysis of soils, sediments, and archaeological materials.

The professional development of students involves education in the
discipline's heritage and philosophy as well as current issues and
theories. Interdisciplinary expertise is developed through course work
and involvement in campus-wide as well as Departmental symposia
and colloquia. Students are encouraged to attend and present papers at
regional and national professional meetings, and to develop skills in
leadership, service, and teaching. Most Ph.D. recipients pursue careers
in higher education; others obtain advanced professional positions in
government agencies, non-governmental organizations, and the
private sector. Most Master's recipients are encouraged to pursue the
Ph.D.; the rest are employed in a variety of governmental, non-
governmental organization, and private sector positions, or in
secondary education.

Research facilities: The University library of over eight million
volumes is one of the largest in the United States, and is noted for its
collections and rare materials on Latin America and the American
West and South. The Ransom Center is one of the world's premier
cultural archives, and houses thirty million literary manuscripts, five

million photographs (including the world's first photograph), and numerous rare maps and atlases. Courses, symposia, and research support are available through nationally prominent area studies centers for Latin America, the Middle East, Russia, East Europe, and Eurasia, and South Asia. Further resources are available through the Population Research Center, the Environmental Science Institute, the Center for Space Research, and the Bureau of Economic Geology.

The Department houses the University's Center for Geographic Information Science and deploys ESRI, ERDAS, and IDRISI software packages. Facilities for GISc include an Environmental Information Systems Laboratory, a Digital Landscape Laboratory for research, an Environmental Change Laboratory, and a Spatial Sciences Laboratory. The Department has a new Soils and Geoarchaeology Research Laboratory for the study of soils, sediments, and pollen samples, and a new Water Quality and Hydrology Research Laboratory, complementing existing Fluvial Geomorphology Research Laboratories. The Department also has a research partnership with the Hornsby Bend Center for Environmental Research, located in an urban floodplain wetland.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: The University has two regular semesters, and two summer sessions. Students in geography take courses assuring breadth of knowledge in physical geography, human geography, and geographic methods. Students also specialize in an area of concentration. Numerous honors programs such as Liberal Arts Honors, Junior Fellows, Gamma Theta Upsilon, and Phi Beta Kappa are available to geography majors. The University encourages international study.

Graduate: All entering students participate in a common two semester seminar sequence, which provide an introduction to the department, disciplinary research, and international research. A master's student takes at least two organized courses from different faculty during the first year of study, and demonstrates mastery of a foreign language or method prior to receiving the degree. Master's theses usually involve fieldwork, often in foreign countries. A report option is also available for special situations.

A doctoral student crafts a personal program of work with help from a faculty supervisor and dissertation committee, selected by the end of the second semester. Doctoral students take at least three organized courses from different departmental faculty. Mastery of an appropriate method and foreign language, proficiency in two areas of specialization in geography, and passing qualifying examinations admits the student to candidacy. Research and writing of the dissertation culminates in an oral defense.

Graduate Admission Requirements: Students in all disciplines and backgrounds, whose goals are related to faculty interests, are encouraged to apply; a background in geography is not required. Admission is very selective, and is based on careful analysis of the entire application dossier. Personal essay, letters of recommendation, and suitability of previous training and experience for the proposed topic of graduate study are very important. GRE scores and grade point averages are examined, but no single factor guarantees or precludes admission. A personal visit and interview with prospective supervisor is recommended but not required; all applicants should contact relevant faculty members to discuss their goals before applying. All application materials must be submitted by 1 January.

Graduate Financial Aid: The department offers multiple Teaching and Research Assistantships and Fellowships each academic year. Most fellowships and assistantships include rebates to help pay for tuition, and some include extra stipends for travel. The Department also offers several summer teaching assistantships, and several research assistantships. The Department and Graduate School offer travel grants for research and attendance at professional meetings.

Many students receive funding through University institutes or area studies programs, and from external sources.

FACULTY:

Paul C. Adams, Ph.D., Wisconsin, 1993, Professor — Place Images in the Media; Technologically-Mediated Gathering; Topologies of Communication; Geopolitical Discourses; Formation of Subjectivity

Eugenio Arima, Ph.D., Michigan State University, 2005, Associate Professor — Human-Environment Relations; GIS/Science; Applied Quantitative methods; Latin America

Timothy P. Beach, Ph.D., University of Minnesota-Minneapolis, 1989, Professor and C. B. Smith, Sr. Centennial Chair in United States-Mexico Relations — Soil and Agricultural Systems; Geomorphology; Water; Environmental Change; Paleoclimates, and Geoarchaeology

Kelley A. Crews, Ph.D., North Carolina, 2000, Associate Professor — Land Use Ecology and Management; GIS & Remote Sensing; Environmental Policy Analysis; Population-Environment Interactions; Global Tropics

William E. Doolittle, Ph.D., Oklahoma, 1979, Erich W. Zimmermann Regents Professor — Landscapes; Indigenous Agriculture; Arid Lands; American Southwest, Mexico

Caroline Faria, Ph.D., University of Washington 2009, Assistant Professor — Feminist Geography; Political Geography; Critical Geographies of Gender, Sexuality and Race; Transnational Feminist Theory; Critical Development Geographies; Postcolonial Geography; Cultural Geography; African Studies

Gregory W. Knapp, Ph.D., Wisconsin, 1984, Associate Professor — Cultural and Political Ecology; Historical Geography; Latin America

Edgardo Latrubesse, Ph.D., National University of San Luis, Argentina, 1992, Professor — Fluvial Geomorphology; Latin America; Mega-Geomorphology; Paleogeography; River Management

Sheryl Luzzadder-Beach, Ph.D., University of Minnesota-Minneapolis, 1990, Professor — Chair of the Department of Geography and the Environment, and Fellow of the C. B. Smith, Sr. Centennial Chair in United States-Mexico Relations #2-Water Resources; Geoarchaeology; Spatial Analysis; Geomorphology; Paleoenvironments; Gender; Science and Human Rights

Jennifer A. Miller, Ph.D., San Diego State-UC Santa Barbara joint program, 2003, Associate Professor — GIScience; Integration of GIS and Remote Sensing; Environmental/Ecological Modeling

Carlos E. Ramos Scharrón, Ph.D., Colorado State University, 2004, Assistant Professor — Hydro-Geomorphology; Terrestrial Carbon and Sediment Budgets; Watershed Analyses; Land Use Change

Rebecca Torres, Ph.D., UC-Davis, 2000, Associate Professor — Rural and Community Development; Transnationalism and Migration; Latino Communities in the U.S., Mexico and Latin America

Kenneth R. Young, Ph.D., Colorado, 1990, Professor — Biogeography; Landscape Ecology; Climate Change; Sustainability; Tropical Environments

RELATED FACULTY AND RESEARCHERS ON CAMPUS:

Erick Akins, M.A., Trinity, 1988, Lecturer — Non-Profit Management; Grant Research, Development and Writing; Grant Management; Policy Development and Community Development

Samia Aquino da Silva, Ph.D., Universidade Estadual de Maringá, Brasil, Lecturer

Elisabeth K. Butzer, M.A., Chicago, 1977, Research Fellow (Geography and Latin American Studies) — Northern New Spain; Land Use; Climatic Extremes; Epidemics

David J. Eaton, Ph.D., Johns Hopkins, 1977, Bess Harris Jones Centennial Professor of Natural Resource Policy Studies (Public Affairs, Middle Eastern Studies, and Geography) — Regional and International Environmental Resource Management; Quantitative Methods

Jules R. Elkins, Ph.D., University of California at Berkeley, 2008, Lecturer — International Development; Health; Environmental Health; Environmental Economics

Charles D. Frederick, Ph.D., Texas, 1995, Research Fellow — Geoarchaeology

David W. Guillet, Ph.D., Texas, 1974, Research Fellow — Cultural Ecology; Irrigation; Historical Ecology; Spain; Andes; Himalayas; Natural Resource Management; Political Ecology

Rich Heyman, Ph.D., Washington, 2004, Lecturer — Cultural Geography; Urban Geography; Critical Theory and Marxism; History of Geography; Pedagogy; Public Space

Steven D. Hoelscher, Ph.D., Wisconsin, 1995, Associate Professor (American Studies and Geography) Affiliated Faculty — Historical Geography; Tourism; Ethnicity; Historic Landscapes; North America

Donald J. Huebner, Ph.D., Texas, Austin, 2002, Lecturer — American Southwest; Desert and Mountain Environments; Coastal Environments; Surveying; GIS

Bella Bychkova Jordan, Ph.D., Texas, Austin, 2002, Lecturer — Cultural Geography and Ethnogenesis; Religion; Russia; Circumpolar North

Troy M. Kimmel Jr., B.S., Texas A&M University, 1983, Senior Lecturer — Broadcast Meteorology; Severe/Inclement Weather Forecasting; Aviation Meteorology

Blanca León, Ph.D. Aarhus U., Denmark, 1993, Research Fellow — Plant geography; Botany; Conservation

Thoralf Meyer, MSc, Anhalt University of Applied Sciences, Germany, 1999, Ph.D. University of Virginia, 2014, Lecturer — Land Use Ecology and Land Management; Environmental Science; GIScience; African Savanna Ecosystems

Bjorn Sletto, Ph.D., Cornell University, Associate Professor at The University of Texas at Austin School of Architecture, Affiliated Faculty — Geographic Information Systems; Latin American Planning and Development; Participatory Planning; Environmental and Social Justice, Social Theory

Peter M. Ward, Ph.D., Liverpool, 1976, Professor (Public Affairs, Sociology, and Geography) Affiliated Faculty — Mexican Politics and Urban Administration; Housing and Land Development in Third World Countries; Local Leadership

EMERITI:

Alfred W. Crosby, Jr., Ph.D., Boston, 1961 Professor Emeritus of Geography, History, and American Studies

Robin W. Doughty, Ph.D., UC-Berkeley, 1971, Professor Emeritus of Geography

Robert K. Holz, Ph.D., Michigan State, 1963, Erich W. Zimmermann Regents Professor Emeritus of Geography

Ian R. Manners, D.Phil., Oxford, 1969, Professor Emeritus of Geography (Middle Eastern Studies and Center for Middle Eastern Studies)

Francisco L. Pérez, Ph.D., UC-Berkeley, 1985, Professor — Mountain Geocology; Geomorphology; Vegetation Ecology; Soils

UNIVERSITY OF TEXAS AT SAN ANTONIO

DEPARTMENT OF POLITICAL SCIENCE AND GEOGRAPHY

DATE FOUNDED: 1977

DEGREES OFFERED: B.A., M.A. in Geography

GRANTED: 9/1/16 - 5/31/17: 15 B.A., 4 M.A. (program implemented fall 2014)

STUDENTS: 60 majors; 15 minors; 10 Masters

CHAIR: James D. Calder

GEOGRAPHY PROGRAM COORDINATOR: Richard Jones

GRADUATE PROGRAM COORDINATORS: Andrea Aleman, Nazgol Bagheri, Richard Jones

DEPARTMENT ADMINISTRATOR: Martha Luna

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Department of Political Science and Geography, The University of Texas at San Antonio, One UTSA Circle, San Antonio, Texas 78249. Telephone (210) 458-5600. Fax (210) 458-4629.

Email: richard.jones@utsa.edu.

Website: <http://colfa.utsa.edu/polisci/geography>.

For graduate program, contact andrea.aleman@utsa.edu (210-458-4627).

PROGRAMS AND RESEARCH FACILITIES: The geography program is housed with Political Science in the College of Liberal and Fine Arts, and offers a Bachelor of Arts degree requiring 37 hours of courses in the major. The program specializes in cultural, urban, GIS, economic, political, and physical geography, and offers coursework in most other subareas of the field. The program is highly interdisciplinary. Students are encouraged to take courses in related areas of human and environmental sciences, and faculty regularly interact with those in other disciplines and with several Institutes on campus. The department has a GIS lab in addition to a College-level Critical GIS research laboratory with teaching capabilities, both directed by geography faculty. The program provides students and faculty numerous opportunities for study, internships, field trips, and research in the San Antonio region, south Texas, and abroad.

ACADEMIC PLAN, ADMISSIONS REQUIREMENTS, &

FINANCIAL AID: The University operates on a semester system, with a full range of summer courses. Complete information on admissions, program, and financial aid, may be obtained through the University website: www.utsa.edu.

Graduate Admissions requirements: For complete program information see the UTSA Graduate School Website: Academic Programs > Geography (M.A.). For application information see <https://apply.embark.com/grad/utsa/>. Requirements for admission to the GRG Masters program include submission of official transcripts, a statement of purpose, and two letters of recommendation by July 1 for fall or September 1 for spring. A CV and the GRE are recommended but not required. Prerequisites include a 3.0 GPA in the last 60 hours of college work and completion of an introductory GIS course and a Methods course. A limited number of competitive Teaching Assistantships are available, for which early application is encouraged.

FACULTY:

Neil Debbage, Ph.D., U. of Geography, 2018, Assistant Professor — environmental geography, GIS, weather and climate

Nazgol Bagheri, Ph.D., U. of Missouri-Kansas City, 2013, Assistant Professor — urban geography, feminist geography, GIScience, Middle East

Miguel De Oliver, Ph.D., Penn State, 1992, Associate Professor — race and gender disparities, consumerism and social inequality, North America

Richard Jones, Ph.D., Ohio State, 1973, Professor — international migration, development, Texas/Mexico social geography

James Vaughan, Ph.D., Texas State U., 2006, Senior Lecturer — urban planning, resources, physical geography, sustainable urbanism

ADJUNCT FACULTY:

Dean Lambert, Ph.D., U. of Texas-Austin, 1992 — physical geography, Latin America

Matt Melancon, ABD, Texas State U., 2006 — physical geography, conservation, biogeography

Raluca Owens, MA, U. of Texas at San Antonio — introduction to geography, physical geography, cultural geography, geography of Europe

Andrea Hansis-Diarte, MPH, U. of Texas Health Science Center at Houston — medical geography

UTAH

SOUTHERN UTAH UNIVERSITY

DEPARTMENT OF PHYSICAL SCIENCE

DATE FOUNDED: 1897 (Geography courses first offered circa 1989)

DEGREES OFFERED: Undergraduate Minor in Geography; Undergraduate Minor in Geography Teacher Education; Certificate in Geographic Information Systems; Bachelor of Arts in Engineering Technology CAD/GIS Emphasis; Bachelor of Science in Engineering Technology CAD/GIS Emphasis; Associate of Applied Science in CAD/CAM (GIS Emphasis)

GRANTED: 3 AAS in CAD/CAM; 4 GIS Certificates (2013-2014); 6 GIS Certificates (2014-2015); 1 BS Engineering Technology CAD/GIS Emphasis

STUDENTS IN RESIDENCE: 5 Geography Minors; 22 GIS Certificate-Seeking Students; 5 CAD/GIS Majors

CHAIR: Mackay Steffensen

ADMINISTRATIVE ASSISTANT: Rhonda Riley

FOR FURTHER INFORMATION CONTACT: Paul R. Larson, Ph.D., Associate Professor of Geography/GIS, 351 West University Boulevard, Cedar City, Utah 84720. Telephone 435-865-8244. Fax 435-865-8051. Email: larson_p@suu.edu. Internet: <http://suu.edu/cose/phycsi/geosciences/geography.html>

PROGRAMS AND RESEARCH FACILITIES: Southern Utah University offers the full spectrum of Geography courses beginning with introductory world regional, human, physical geography (with lab), and intro GPS. Upper division courses include Remote Sensing, Weather and Climate, Political Geography, Geomorphology, environmental Geography, Cartography, Intro GIS, Geography of Utah, Geography of North America, Advanced GIS, and Teaching Methods in Geography. The SUU GIS Laboratory consists of a teaching laboratory with 32 workstations with a fully mediated teacher's station, and an advanced lab with 10 workstations. Software includes ArcGIS, several GPS software packages (Pathfinder, Trimble, etc.) and ENVI. Students, faculty, and researchers from across campus have access to a CalComp 50" digitizer, a Contex 54" color scanner, a 42" HP plotter, a Trimble centimeter-grade GPS base station, 56 Trimble handheld GPS units, and 6 Garmin GPS units.

The GIS Lab Internship program maintains a five-year \$500,000 agreement with the U.S. Forest Service which hires 2-6 interns per year, a ten-year agreement with Bryce Canyon National Park which hires 1-2 interns per year, and other agencies which hire an additional 3-6 interns annually. Finally, we would like to mention our world-class outdoor laboratory. SUU is located within four hours of seven national parks, several national monuments, and state parks.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

The university uses a semester system. First-time students (graduating high school within five years prior to attendance) are admitted to SUU using an admission index (see <http://suu.edu/prostu/admissionindex.html>). Students with an admission index of 90 or higher will be admitted to Southern Utah University. To ensure student success, students whose English ACT score is less than 17 will be required to take ENGL 1000 with ENGL 1010. Students whose Mathematics ACT score is less than 18 will be required to take the math placement test at entrance and the appropriate math course based on the test results. These courses must be completed within the first three semesters of attendance. Students with an admission index below 90 are encouraged to contact the Admissions Office (<http://www.suu.edu/prostu/>) concerning their opportunity for admission into SUU. Financial aid information is available at <http://www.suu.edu/ss/financial/>.

GEOGRAPHY FACULTY:

Paul R. Larson, Ph.D., University of Utah, 1996, Professor of Geography/GIS — physical geography, world regional geography, human geography, remote sensing, weather and climate, political geography, geomorphology, environmental geography, cartography, intro GIS, geography of Utah, geography of North America, geography teaching methods

David J. Maxwell, M.Sc., 2005, Manchester Metropolitan University — GIS, remote sensing, GPS

UNIVERSITY OF UTAH

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1947

GRADUATE PROGRAM FOUNDED: 1948

DEGREES OFFERED: B.A., B.S., M.S., Ph.D.

(Geography); B.S., M.S. (Geographic Information Science)

GRANTED 9/16-8/17: 31 Bachelors, 13 Masters, 4 Ph.D., 8 GIS.MS.

STUDENTS IN RESIDENCE: 119 Bachelors, 28 Masters, 22 Doctoral

NOT IN RESIDENCE: 1 Doctoral

CHAIR: Andrea Brunelle

DEPARTMENT ADMINISTRATIVE OFFICER: Lisa Clayton

GRADUATE SECRETARY: Pam Mitchell

FOR CATALOG AND FURTHER INFORMATION WRITE TO: University of Utah, Department of Geography, 260 Central Campus Drive, Room 4625, Salt Lake City, Utah, 84112. Telephone (801) 581-8218. Fax (801) 585-5081. Email: pam.mitchell@geog.utah.edu. Website: <http://www.geog.utah.edu>. Facebook: <https://www.facebook.com/uofugeography/>.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography emphasizes scientific geography within three main focus areas, as well as their synergistic overlaps: 1) *Urban/Economic Systems*, including urbanization, transportation, economic geography, globalization, public health, natural and technological hazards, and demography, 2) *Earth Systems Science*, including biogeography and

ecosystems, glaciology, hydrology, paleoecology, geomorphology, and climate science; and 3) *Geographic Information Science*, including geographic information systems (GIS), remote sensing, cartography and geovisualization, spatial analysis, and geocomputation. These focus areas provide knowledge and technical skills required to support high-end careers in the private, public, and academic sectors. Any of the focus areas or their interfaces can serve as a focus for the Ph.D., M.S., B.A., or B.S. degrees in geography.

In addition to traditional academic Master's and Doctoral degrees in Geography, we also have a Master's of Science in Geographic Information Science (MSGIS). The MSGIS focuses on coursework and is targeted towards professionals seeking GIS-centered training. Under the Western Regional Graduate Program, residents of 13 western US states are eligible for in-state tuition while completing the MSGIS. The Department of Geography also provides multiple certificate programs. The Geographic Information Science Certificate offers emphases in *Applied GIS* and *Remote Sensing*. The Geospatial Intelligence (USGIF) Certificate is one of only fourteen programs nationwide accredited by the US Geospatial Intelligence Foundation. We also offer certificates in Climate Change, Hazards and Emergency Management, and participate in an Integrated Certificate in Sustainability.

The Department has well-equipped facilities for research in GIScience, digital cartography, remote sensing and environmental analysis. The Department houses and operates the Digitally Integrated Geographic Information Technologies Laboratory (DIGIT), a major GIScience research and production facility serving interests on and off campus. DIGIT is equipped with state-of-the-art hardware platforms and software systems for analytical computer cartography, GPS field data collection, web-based mapping, remote sensing and GIScience, including a full range of ESRI products (including full suite of ArcGIS Platform products), Trimble, ENVI, GlobalMapper, SQL Server and other image processing, spatial analysis, spatial database and graphics software. We are also home to the Utah Remote Sensing Applications (URSA) Lab. URSA engages in cutting-edge, applied remote sensing research using hyperspectral, lidar, and multispectral time series remote sensing data and has a wide array of remote sensing field equipment and software. The Center for Natural and Technological Hazards (CNTH) which integrates research and teaching in urban economic systems, earth system science and GIScience as applied to hazards analysis, policy and mitigation. The Utah Geo-Health (UGH) Lab focuses on research and teaching on medical/health geography, public health, and environmental health. The Geospatial Intelligence Research Lab (GIRL) works in all aspects of geospatial intelligence and human security which includes theoretical constructs, quantitative and qualitative approaches, regional analyses, and geographic information technologies, remote sensing, and data mining. The Urban and Sustainability Research Lab has a broad range of coverage, including urbanization, development, inequality, health, land use, and sustainability with extensive use of GIS spatial analysis. The RED Lab (Records of Environment and Disturbance) and Power Paleoecology Lab are two paleoecology labs housing state-of-the-art facilities for studying environmental change from sedimentary records. The Nicoll Lab for Quaternary Sedimentology and Geomorphology integrates applied geological techniques, including field-intensive strategic, archaeological and geophysical research using sedimentological techniques, ground penetrating radar and terrestrial LiDAR acquisition and interpretation. The Snow and Ice Lab focuses on studying the climate change aspects of mountain glaciers, ice sheets, and seasonal snow using remote sensing data acquired from satellites, airborne and ground-based systems. The Paeleo-Data Lab works with regional and continental scale databases of pollen and peatland sequences to reconstruct information about past climates and ecosystems over the Northern hemisphere to estimate future global change. We also have strong ties to University of Utah interdisciplinary field, educational, and computing facilities, including Range Creek Canyon, Rio Mesa Center, Natural History Museum of Utah Garrett Herbarium, Global

Change and Sustainability Center, and Center for High Performance Computing.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: All prospective University of Utah undergraduate students must apply through the Admissions Office. Applicants must submit a completed *Application for Undergraduate Admission*, required test scores (ACT/SAT); processing fee; and any required credentials by the appropriate deadline to avoid being assessed a late fee. Following are deadlines for filing applications: Fall Semester – April 1; Spring Semester – Nov. 1; Summer Semester – March 15. The following types of financial aid are available through the Financial Aid and Scholarship Office: scholarships, grants, loans and work-study. Financial aid and scholarship deadlines are prior to the start of the academic year. Dates can be found on the University web page at <http://financialaid.utah.edu/news/>. Offers made to students may be a combination of various forms of aid. Scholarships and grants are restricted to undergraduate students; loans and work-study are open to both graduate and undergraduate students.

GRADUATE: Candidates must apply online via an ApplyYourself link on our website and must be accepted by both the Department and the University's Graduate School. A minimum of a 3.00 G.P.A. is required for acceptance. Applicants must submit a completed application for admission, processing fee, and any required credentials by the appropriate deadline. Several teaching assistantships are available; which include stipends of up to \$20,000 per academic year and carry a full tuition waiver. Research assistantships and part-time project work are also available through funded research grants. Complete applications for graduate school as well as teaching assistantships and research assistantships for the Master's program are due in the Geography Department no later than January 10. Ph.D. applications are accepted at any time for fall and spring semesters, but for Ph.D. applicants wishing to apply for teaching and research assistantships, applications are due January 10. Information and details are available at www.geog.utah.edu.

FACULTY:

Simon C. Brewer, Ph.D., *Universite' d'Aix-Marseille I*, 2002, Assistant Professor — past and present climate change, paleoecology, environmental modeling, data mining and analysis
Andrea Brunelle, Ph.D., *University of Oregon*, 2002, Professor and Chair — paleoecology, disturbance (fire and beetle) history, climate change
Timothy Collins, Ph.D., *Arizona State University*, 2002, Professor — human-environmental interactions, vulnerability, hazards and disasters, environmental justice, health disparities, climate change, water, wildfire, and air pollution
Thomas J. Cova, Ph.D., *University of California-Santa Barbara*, 1999, Professor — environmental hazards, human-environmental systems, emergency management, transportation, and geographic information science
Philip E. Dennison, Ph.D., *California-Santa Barbara*, 2003, Professor — remote sensing of vegetation, hyperspectral, multispectral, and lidar remote sensing, wildfire and climate, vegetation disturbance, and fire safety
Richard R. Forster, Ph.D., *Cornell*, 1997, Professor — glaciology, microwave remote sensing, application of radar interferometry to studies of glaciers and ground subsidence, remote sensing of snow packs and hydrology
George F. Hepner, Ph.D., *Arizona State*, 1979, Professor and Director of Undergraduate Studies — land resource analysis, geographic information analysis, geospatial analysis of terrorism
Andrew M. Linke, Ph.D., *University of Colorado-Boulder*, 2013, Assistant Professor — political geography, political violence, Kenya, spatial statistics, GIS, climate change and conflict

Phoebe B. McNeally, Ph.D., University of Utah, 2008, Research Associate Professor and Director of Digitally Integrated Geographic Information Technologies (DIGIT) Laboratory — GIS, spatial decision support systems, spatial databases, and snow science

Richard Medina, Ph.D., University of Utah, 2009, Assistant Professor — conflict, hazards, complex systems, GIS

Kathleen Nicoll, Ph.D., Arizona, 1998, Associate Professor — Quaternary stratigraphy, geomorphology, archaeology, environmental change, petroleum geology

Mitchell J. Power, Ph.D., University of Oregon, 2006, Associate Professor — paleoecology, biogeography, historical plant geography, climate history, and fire history from local to global scales

Summer Rupper, Ph.D., University of Washington-Seattle, 2007, Associate Professor and Director of Graduate Studies — glaciology, climate change, modeling glacier mass balance, ice core analysis, glacier geomorphology

Vincent V. Salomonson, Ph.D., 1968, Colorado State University, Research Professor — spaceborne remote sensing of Earth-atmosphere processes and trends with emphasis on hydrological processes, regional and global snow cover dynamics

Sara McKenzie Skiles, Ph.D., University of California – Los Angeles, 2014, Assistant Professor — mountain hydrology, snow optics and remote sensing, radiative forcing by light absorbing particles in snow and ice, cryosphere-climate interaction

Neng Wan, Ph.D., Texas State University-San Marcos, 2011, Assistant Professor — medical/health geography, aging, health disparity, healthcare accessibility, environmental exposure, GIScience, spatial modeling

Yehua Dennis Wei, Ph.D., UCLA, 1998, Professor — economic/urban geography, urban and regional development, spatial inequality, GIS, spatial analysis, China

AUXILIARY FACULTY:

Robert T. Argenbright, Ph.D., UC-Berkeley, 1990, Associate Professor Lecturer — Russia, historical, political, and urban geography

Larry L. Coats, M.S., Assistant Professor Lecturer — quaternary sciences

Elizabeth Dudley-Murphy, Ph.D., Assistant Professor Lecturer — world regional/cultural geography, geography of Latin America, human geography, introduction to GIS

Timothy Edgar, M.S., Utah, Assistant Professor Lecturer — Energy/natural resources, sustainability, spatial statistics, remote sensing, GIS and geocomputation

Jack Hamilton, Ph.D., Columbus University, 1991, Adjunct Associate Professor — energy, environment and sustainability

Zachary Lundeen, Ph.D., Utah, Research Assistant Professor and Director of Rio Mesa Center — paleoclimatology, paleoecology, water resources

Ola Opera, Ph.D., Utah, 2013, Adjunct Assistant Professor — energy, environment

Pamela Perlich, Ph.D., Adjunct Professor — demo-economic analysis and regional science

Kenneth L. Petersen, Ph.D., Washington State University, 1981, Adjunct Assistant Professor — palynology and environmental archaeology

Jennifer Watt, Ph.D., Utah, 2013, Adjunct Assistant Professor — global climate change, environmental and sustainability studies, paleoecology and disturbance

Ingrid Weinbauer, M.A., Assistant Professor Lecturer — world regional geography, human geography, resource conservation, urban environmental geography, global environmental change, cartography

EMERITUS FACULTY:

Genevieve Atwood, Ph.D., Utah, 2006, Adjunct Associate Professor

Donald R. Currey, Ph.D., Kansas, 1969, Professor - Deceased

Albert L. Fisher, Ph.D., Johns Hopkins, 1954, Professor

James W. King, Ph.D., Northwestern, 1964 Associate Professor

Thomas M. Kontuly, Ph.D., Pennsylvania, 1978, Professor

Chung-Myun Lee, Ph.D., Michigan, 1961, Professor

Roger M. McCoy, Ph.D., Kansas, 1967, Professor

Merrill K. Ridd, Ph.D., Northwestern, 1963, Professor

Leroy H. Wullstein, Ph.D., Oregon State, 1965, Professor

UTAH STATE UNIVERSITY

DEPARTMENT OF ENVIRONMENT AND SOCIETY DEGREES OFFERED: B.S. Geography, M.S. Geography

HEAD: Christopher Lant

FOR FURTHER INFORMATION WRITE TO: Becky Hirst, Department of Environment and Society, 5215 Old Main Hill, Logan UT 84322-5215. Telephone: (435) 797-3781. Fax: (435) 797-4048. E-Mail: envs.info@usu.edu. Website: <http://www.qcncr.usu.edu/envs/>.

PROGRAMS AND RESEARCH FACILITIES: The program in Geography is part of the S.J. & Jessie E. Quinney College of Natural Resources. Research centers on relationships between humans and the natural environment, including applications of spatial-analytical tools. Undergraduate students in Geography choose from two emphasis areas (described below): Human-Environment Geography and Geographic Information Science.

Human-Environment Geography provides a broad overview of the relationships between humans and their environments across different cultures, economies, and geographic locations around the globe. Special attention is given to human-environment relations and environmental issues in the Global South, within the context of world systems.

Geographic Information Science assists students in gaining a solid foundation of GIS-related skills, with application to human-environment geography and to a variety of natural resource and environmental domains.

Graduate students work directly under the mentorship of human-environment geography faculty or affiliated faculty, with largely open programs of study. Graduate coursework is determined by students, in consultation with their supervisory committees, to meet their research and training goals.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System. Graduate admission requirements: interests in the field coincident with those of the Department, min. 3.2 GPA over last 60 credits, and 40th percentile for GRE scores; application requires transcripts, three letters of recommendation, GRE results, TOEFL (international students); Financial Aid: graduate research and teaching assistantships may be available, with remission of out-of-state portion of tuition if at 0.5 FTE.

ENVIRONMENT AND SOCIETY FACULTY:

Shannon Belmont, MS, Univ. of Minnesota, 2009, Lecturer — GIS, water resources research

Roslynn Brain-McCann, PhD, Florida, 2008, Associate Professor and Extension Specialist — sustainable communities, pro-environmental behavior change, non-formal teaching techniques — roslynn.brain@usu.edu

Mark Brunson, PhD, Oregon State, 1991, Professor — social-ecological systems, human dimensions of ecological disturbance and invasion, restoration ecology — mark.brunson@usu.edu

Emily Burchfield, PhD, Vanderbilt Univ., 2017, Assistant Professor — quantitative tools to explore political, ecological and distributional dimensions of climate change and adaptation — emily.burchfield@usu.edu

Steven Burr, PhD, Penn State, 1994, Associate Professor and Extension Specialist — outdoor recreation and nature-based tourism — steve.burr@usu.edu

Layne Coppock, PhD, Colorado State, 1985, Professor — range ecology and management, international development, systems analysis — layne.coppock@usu.edu

Joanna Endter-Wada, PhD, California-Irvine, 1987, Professor — natural resource and environmental policy, water management and planning, human ecology — joanna.endter-wada@usu.edu

Nat Frazer, PhD, Georgia, 1983, Professor — STEM education, sustainability, science literacy, interaction of politics, religion and science — nat.frazer@usu.edu

Peter Howe, PhD, Penn State, 2012, Assistant Professor — human-environment geography, vulnerability and adaptation to climate change and natural hazards — peter.howe@usu.edu

Sarah Klain, PhD, Univ. of British Columbia, 2016, Assistant Professor — ecosystem services, renewable energy landscapes

Christopher Lant, PhD, Univ. of Iowa, 1988, Professor and Head — food-energy-water systems, ecosystem services, environmental policy — chris.lant@usu.edu

Christopher Monz, PhD, Colorado State, 2001, Professor — recreation ecology, outdoor recreation and wilderness management — chris.monz@usu.edu

Claudia Radel, PhD, Clark, 2005, Associate Professor — international development, migration, smallholder farming systems, political ecology, feminist geography: Latin America, sub-Saharan Africa — claudia.radel@usu.edu

Robert Schmidt, PhD, California-Davis, 1986, Associate Professor — wildlife policy and human dimensions, wildlife damage management — robert.schmidt@usu.edu

Jordan Smith, PhD, North Carolina State Univ., 2011, Assistant Professor — outdoor recreational behavior and environmental change — jordan.smith@usu.edu

Joseph Tainter, PhD, Northwestern 1975, Professor — social conflict in environmental issues, human responses to climate change and environmental degradation, human uses of energy and resources — joseph.tainter@usu.edu

GEOGRAPHY FACULTY IN AFFILIATED DEPARTMENTS:

Colin Flint, PhD, Colorado, 1995, Professor, Political Science — geopolitics, political geography, peace and conflict studies — colin.flint@usu.edu

Sarah Null, PhD, California-Davis, 2008, Associate Professor, Watershed Sciences — water resources, water temperature, climate change, modeling — sarah.null@usu.edu

R. Douglas Ramsey, PhD, Utah, 1989, Professor, Wildland Resources — remote sensing, GIS, landscape ecology, spatial analysis — doug.ramsey@usu.edu

Telephone (802) 443-5714. E-mail: herb@middlebury.edu. Internet: www.middlebury.edu.

PROGRAMS AND RESEARCH FACILITIES: Middlebury is a four-year liberal arts college that grants a Bachelor of Arts in geography. With seven full-time faculty, the geography department offers a curriculum that aims toward a broad yet integrated perspective on the discipline. Beyond the classroom, students have opportunities to do a variety of internships and independent projects and to work closely with faculty on their research. The department has well equipped facilities, including modern GIS and cartography laboratories.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Middlebury is on a 4-1-4 calendar, which means that students complete 4 courses each during regular fall and spring semesters and one course during a special, one-month winter term. The winter term especially offers many opportunities for travel, internships, and independent study. Admission to Middlebury is on a need-blind, competitive basis, and financial aid is available. Additional information on admissions and financial aid can be obtained by writing the Admissions Office, Middlebury College, Middlebury, VT 05753.

FACULTY:

Guntram H. Herb, Ph.D., Wisconsin-Madison, 1993, Professor — national identity and territoriality, native borderlands, maps and geopolitics, history of geography, Europe

Joseph Holler, Ph.D., SUNY-Buffalo, 2012, Assistant Professor — geographic information science, social vulnerability and adaptation, development geographies, political ecology

Jeffrey T. Howarth, Ph.D., California-Santa Barbara, 2007, Associate Professor — spatial thinking in problem-based learning, instructional design for GIS and cartography, GIS in planning and design

Jessica L'Roe, Ph.D., Wisconsin-Madison, 2017, Assistant Professor — people-environment geography, forest conservation and economic development, land use change, rural livelihood dynamics, East Africa, Latin America

Tamar Mayer, Ph.D., Wisconsin-Madison, 1985, Professor — political and cultural geography, nationalism, political landscapes, gender, development, Middle East, Central Asia, Xinjiang

Peter B. Nelson, Ph.D., Washington, 1999, Professor — economic geography, population migration, rural restructuring, urban-rural linkages

Lindsay D. Dreiss, PhD, Connecticut, 2016, GIS Teaching Fellow — GIS, forest ecophysiology, plant phenology and climate change, invasive species, spatial dynamics of biodiversity, natural resources management

VERMONT

MIDDLEBURY COLLEGE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1800

DEGREES OFFERED: B.A.

GRANTED 9/1/14-8/31/15: 33 Bachelors

MAJORS: 71

CHAIR: Guntram Herb

DEPARTMENT ADMINISTRATIVE ASST: Jessica Hellyer

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Guntram Herb, Department of Geography, 276 Bicentennial Way, Middlebury College, Middlebury, Vermont 05753.

UNIVERSITY OF VERMONT

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1966

DEGREES OFFERED: B.A.

GRANTED 9/1/17-8/31/18: 21 Bachelors

STUDENTS IN RESIDENCE: 85 Geography Majors; 41

Geography Minors; 91 Geo-spatial Technologies Minors

CHAIR: Beverley Wemple

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography, University of Vermont, 200 Old Mill, 94 University Place, Burlington, Vermont 05405-0114. Telephone (802) 656-2063. E-mail: geography@uvm.edu. World Wide Web: <http://www.uvm.edu/~geograph>.

PROGRAMS AND RESEARCH FACILITIES: The department offers a rich program that covers a broad range of subfields within the discipline. Department faculty members have had substantial international experience, and are also involved in studies on Vermont. The University, with 10,000 full-time students, is likewise of human scale, promoting close contact between students and faculty. The campus is located in Burlington, a highly attractive city of 42,260 in a metropolitan area of 214,796. The Green Mountains form the eastern backdrop, and Lake Champlain and Adirondack Mountains the western view. Montreal is only two hours away by car. Within a 50-mile radius, there is an unequaled range of settings for interesting fieldwork in human and physical geography. The B.A. degree requires thirty-three credits in geography plus meeting College of Arts & Sciences distribution requirements and general education requirements such as 'sustainability' and 'writing and information literacy'. The Geo-Spatial Technologies minor is a cross-College collaboration among Geography, Natural Resources, Engineering and Computer Science. Among the facilities are a library with more than one million volumes; a map library; and well-equipped cartographic, GIS and remote sensing laboratories, the Vermont State Climate Office, two physical geography laboratories and a human geography laboratory.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: UNDERGRADUATE: The University is on the Semester system. The University of Vermont Catalog offers full information on admission requirements and financial aid opportunities. Consideration for admission relates to the secondary school record, recommendations, College Board Scholastic Aptitude Test results, writing ability, and other supportive information. Application forms may be obtained from the Admissions Office, University of Vermont, 194 South Prospect Street, Burlington, Vermont 05405-3596 or www.uvm.edu. The University will consider provision of financial aid based on a calculated determination of financial need.

FACULTY:

Pablo Bose, Ph.D., York University, 2006, Associate Professor — Migration, urban geography, refugees, development and environment, community-based research, India and South Asia

Meghan Cope, Ph.D., University of Colorado, 1995, Professor — urban social geography, gender, race, children's/youth geographies, historical geography, qualitative research, critical and qualitative GIS

Lesley-Ann Dupigny-Giroux, Ph.D., McGill University, 1996, Professor and Chair — physical geography, climatology, remote sensing, GIS, hazards, drought, land-surface interactions, climate education, Northeastern North America, Vermont. Vermont State Climatologist

Cheryl Morse, Ph.D., University of British Columbia, 2006, Associate Professor — social geography, rural studies, human-environment interactions, Vermont

T. Harlan Morehouse, 2018, University of Minnesota, Lecturer — contemporary environmental thought and practice, nature-society, human-nonhuman relationships

Ingrid Nelson, Ph.D., University of Oregon, 2012, Assistant Professor — political ecology; critical development studies; gender, sexuality and environment; critical GIS; southern Africa

Shelly A. Rayback, Ph.D., University of British Columbia, 2003, Professor — physical geography, biogeography, dendrochronology, paleoclimatology, climate change, isotopes, Arctic, Northeastern North America, Himalayas

Beverly Wemple, Ph.D., Oregon State, 1998, Associate Professor — physical geography, geomorphology, water resources, GIS, quantitative methods

ADJUNCT AND EMERITI FACULTY:

Pierre Deslauriers, Ph.D., Université de Montréal, 1998, Adjunct Lecturer — metropolitan dynamics, rural-urban fringe, geography and literature, Canada

Marla Emery, Ph.D., Rutgers, 1998, Adjunct Associate Professor — political ecology, traditional ecological knowledge, alternative economic theory, northeastern North America

Cathleen Geiger, Ph.D., Dartmouth College, 1996, Adjunct Professor — physical geography, snow and ice, planetary thermal stability, quantitative methods, scale analysis

Richard S. Kujawa, Ph.D., Iowa, 1990, Adjunct Professor — political, urban, economic, environmental policy, planning

Aulis Lind, Ph.D., Wisconsin, 1968, Professor Emeritus

Catrina MacKenzie, Ph.D., McGill University, 2012, Adjunct Lecturer — political ecology, conservation, sustainability, Africa

Susannah McCandless, Ph.D. Clark University, 2009, Adjunct — race, ethnicity and gender, immigration, community forestry, resource access, commons, social effects of conservation, land trusts, Vermont

Nicholas 'Pete' Shear, MA University of Vermont, 1997, Adjunct Lecturer — political geography, land use conflicts, Meso-American and Andean history, Ecuador

Stuart White, Ph.D., University of Wisconsin-Madison, 1981, Adjunct Assistant Professor — pre-Columbian Andes, mountain farming systems, conservation, paramo landscapes

VIRGINIA

GEORGE MASON UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND GEOINFORMATION SCIENCE

FOUNDED: 2008; formerly the DEPARTMENT OF GEOGRAPHY, Founded 1991, and the DEPARTMENT OF EARTH SYSTEMS AND GEOINFORMATION SCIENCES, Founded 2002

UNDERGRADUATE PROGRAMS FOUNDED: 1972 and 2007

GRADUATE PROGRAMS FOUNDED: 1978, 2002, 2004, and 2010

DEGREES OFFERED: B.A. and B.S. in Geography; Minors in Geography and in Geographic Information Systems; M.S. in Geographic and Cartographic Sciences; M.S. in Geoinformatics and Geospatial Intelligence; M.S. in Earth Systems Science; Ph.D. in Earth Systems and Geoinformation Sciences; Graduate Certificates in Geographic Information Sciences, Remote Sensing and Earth Image Processing, and Geospatial Intelligence (Available as a partially online program), Data Journalism, Environmental GIS and Biodiversity Conservation

GRANTED 9/1/17-5/31/18: 10 Ph.D. in Earth Systems and Geoinformation Sciences; 7 M.S. in Geographic and Cartographic Sciences; 1 M.S. in Earth Systems Sciences; 13 M.S. in Geoinformatics and Geospatial Intelligence; 18 B.A./B.S. in Geography; 1 B.S. in Global and Environmental Change

MAJORS (2017-2018): 71 Geography; 1 Global and Environmental Change; 27 Geographic and Cartographic Sciences; 26 Geoinformatics and Geospatial Intelligence; 9 Earth Systems Science; 80 Earth Systems and GeoInformation Sciences; 26 Graduate Certificates

CHAIR: Dieter Pfoser

DEPARTMENT MANAGER: Samantha Cooke

FOR FURTHER INFORMATION: Visit <http://ggs.gmu.edu> and ggs@gmu.edu

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and GeoInformation Science (GGS) offers B.A. and B.S. degree programs in Geography, the former requiring a minor or second major in another field. The B.S. in Geography provides an extensive range of courses in remote sensing, geographic information systems, and cartography. Additionally, GGS and the Department of Environmental Science & Policy (ESP) jointly offer a B.S. in Global & Environmental Change. Students may pursue two emphases in this interdisciplinary degree: Global Change and Environmental Change, including a robust combination of supporting math, science, and geospatial information technology coursework.

At the graduate level, the GGS Department offers the M.S. in Geographic and Cartographic Sciences, the M.S. in Geoinformatics and Geospatial Intelligence and administers the M.S. in Earth Systems Science (jointly offered). GGS offers a Ph.D. in Earth Systems & GeoInformation Sciences with six core foci: quantitative skills, geoinformatics, physical geography, human geography, GIS, and remote sensing.

Students in our degree programs are invited to join GGS faculty in their research in Geographic Information Science, Remote Sensing, Digital Image and Video Analysis, Human and Physical Geography, Geoinformatics, Environmental Sciences, and other related areas. The Department, including several affiliated centers (Center of Excellence in Geographic Information Science, Center for Earth Observing and Space Research, IUCRC for Spatiotemporal Thinking, Computing and Applications, Center for Intelligent Spatial Computing for Water/Energy Science, and the Center for Geospatial Intelligence), has state-of-the-art research facilities to support research and instruction. The Department also offers three graduate certificates in Geographic Information Science, Geospatial Intelligence, and Remote Sensing & Earth Image Processing, to provide graduate-level training to the working community in the Washington, DC metropolitan area.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Most GMU graduate courses are offered in the evenings. Many graduate students are employed full or part-time in government and industry positions in geography, remote sensing, GIS, intelligence, earth science, geoinformatics, and other related fields.

Applicants for the M.S. in Geographic and Cartographic Sciences (GECA) program should have a bachelor's degree in Geography, Cartography or equivalent, with a grade point average of at least 3.0 (on a 4.0 scale) and should present GRE scores. Other applicants may be considered for provisional or non-degree status. Applicants should also present a course in statistics or spatial analysis prior to full admission.

Applicants for the M.S. in Geoinformatics and Geospatial Intelligence (GEOL) program should have a bachelor's degree in a discipline related to the program's theme, with a grade point average of at least 3.0 (on a 4.0 scale) and should present GRE scores and courses in differential and integral calculus. This program addresses the emerging demand for scientists trained in the collection, organization, analysis, and dissemination of information about physical features, man-made structures, moving objects, people, and events that are geo-referenced or geo-located. It focuses primarily on the computational approaches that support the synthesis and analysis of diverse types of data, in order to identify and monitor complex events and phenomena that manifest themselves over space and time. Other applicants may be considered for provisional or non-degree status.

Students with backgrounds in Geography, Earth Systems, one of the physical science disciplines, Engineering, or equivalent can apply for the M.S. in Earth Systems Science (ESS) program and for the Ph.D. in

Earth Systems and GeoInformation Science (Ph.D. ESGS). The M.S. ESS degree requires 30 hours of course work, including a thesis or a project and exam.

As previously mentioned, the Ph.D. ESGS degree has concentrations in Geography, GIS, Geosciences, and Remote Sensing and Earth Observation. Forty-two hours beyond the Master degree or 72 hours beyond the baccalaureate degree, plus comprehensive exams and a dissertation are required. Depending on the applicant's credentials and background, a number of Graduate Teaching Assistantships (stipends and tuition supplements) may be awarded on a competitive basis. One Presidential Fellowship per year may be offered to a PhD applicant meeting certain GRE scores and GPA. Depending on available research funding, the department offers a number of Graduate Research Assistantships based on qualification and interest.

The Graduate Certificates in Geographic Information Sciences and in Remote Sensing & Earth Image Processing each require 15 hours; while the Certificate in Geospatial Intelligence requires 18 hours of course work. As noted above this certificate is available as a fully online program. See <https://masononline.gmu.edu/programs/geospatial-intelligence-graduate-certificate/>.

Detailed information about the GGS Department and requirements for all its degrees may be viewed at: <http://catalog.gmu.edu>

Information about scholarships and loans is available through the Office of Student Financial Aid. See: <http://financialaid.gmu.edu>.

FULL-TIME FACULTY:

Peggy Agouris, Ph.D., The Ohio State University, 1992, Professor and Dean, College of Science, Director of Center for Earth Observing and Space Research — digital image processing/analysis, spatio-temporal information modeling and management, geospatial information systems, optical remote sensing, photogrammetry

Patricia Boudinot, A.B.D., University of Dijon, France, Instructor — human dimensions of natural disasters, cultural geography

Arie Croitoru, Ph.D, Technion – Israel Institute of Technology, 2002, Assistant Professor — computational geoinformatics, digital image analysis, social media analysis, geospatial/spatiotemporal data modeling, photogrammetry

Liping Di, Ph.D., University of Nebraska-Lincoln, 1991, Professor and Director of Center for Spatial Information Science and Systems — GIS, remote sensing, interoperability

Sven Fuhrmann, Ph.D., Westfaelische Wilhelms Universitaet Muenster, Germany, 2002, Associate Professor — geovisualization, cartography

Barry N. Haack, Ph.D., University of Michigan, 1977, Professor — physical, environmental, remote sensing, development

Paul R. Houser, Ph.D., University of Arizona, 1996, Associate Professor and co-Director of the Center for Intelligent Spatial Computing for Water/Energy Science — global hydrology, water cycle dynamics, land surface

Timothy Leslie, Ph.D., Arizona State University, 2007, Associate Professor — urban-economic development, spatial statistics, health geography

Dieter Pfoser, Ph.D., Alborg University, 2000, Professor and Chair — spatial and spatiotemporal databases, graph algorithms - shortest-path computation, map matching, machine learning, geospatial crowdsourcing

John J. Qu, Ph.D., Colorado State University, 1997, Professor and co-Director of EastFIRE Lab — remote sensing, fire sciences, atmospheric sciences, Earth data computing and GIS applications

Matt Rice, Ph.D., University of California-Santa Barbara, 2005, Associate Professor — geographic information science, geovisualization, cartography, crowdsourcing

Anthony Stefanidis, Ph.D., The Ohio State University, 1993, Professor and Director Criminal Investigations and Network Analysis Center, a Department of Homeland Security Center of Excellence — image and video analysis, social media analysis, volunteered geographic information, geospatial intelligence

Donglian Sun, Ph.D., University of Maryland, College Park, 2003, Associate Professor — remote sensing, algorithm development, numerical modeling simulation

David W. Wong, Ph.D., State University of New York, Buffalo, 1990, Professor — spatial analysis and statistics, GIS, population, public health

Chaowei (Phil) Yang, Ph.D., Peking University, China, 2000, Professor and co-Director of Center for Intelligent Spatial Computing for Water/Energy Science and Director of IUCRC for Spatiotemporal Thinking, Computing and Applications — distributed geospatial information processing: architecture and algorithms, interoperability, high performance computing, cloud computing

Ruixin Yang, Ph.D., University of Southern California, 1990, Associate Professor — geosciences, data analysis, data mining, data information systems

Andreas Zuefle, Ph.D., Ludwig Maximilians Universitaet Muenchen, Germany, 2013, Assistant Professor — data sciences, machine learning, uncertainty management, crowdsourcing

SYSTEMS SUPPORT:

Na Liu, M.S., University of South Carolina, 1999, Geographic Information Systems Laboratory Manager

Jacek Radzikowski, M.S., Warsaw University of Technology, 1996, and George Mason University, 2007, Geospatial Intelligence and Geoinformatics Laboratory IT Manager

JAMES MADISON UNIVERSITY

GEOGRAPHIC SCIENCE PROGRAM SCHOOL OF INTEGRATED SCIENCE DATE FOUNDED: 1970

DEGREES OFFERED: B.A., B.S.

GRANTED 9/1/17-8/31/18: 55 Bachelors

STUDENTS IN RESIDENCE: 235 Majors, 71 Minors

PROGRAM COORDINATOR: Dr. Mace Bentley

DEPARTMENT ADMINISTRATIVE ASST: Cindi Wilson

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Cindi Wilson, School of Integrated Sciences, Geographic Science Program, James Madison University, MSC 4302, Harrisonburg, Virginia 22807. Telephone (540) 568-2799. Fax (540) 568-8741. E-mail: wilsoncf@jmu.edu. Internet: www.gis.jmu.edu

PROGRAMS AND RESEARCH FACILITIES: Geographic Science (GS) at JMU is a vibrant community of professors and students who join together to learn, solve problems, and make a difference in the world. Our program offers a unique, holistic approach: the geographical perspective. Geography emphasizes the examination of the environmental and human processes that shape our planet and our lives; how humans interact with their environment; and, how place matters to environmental, economic and cultural issues.

Geography is a bridge between the social sciences (human geography) and the natural sciences (physical geography). More than this, geography trains students in the latest geospatial technologies – geographic information systems (GIS), earth observation, and other cutting edge tools – to analyze global change. The primary challenges facing our world and humanity in the coming century can be examined and addressed very effectively by the geographical approach.

Students in the Geographic Science program select one of the following concentrations: Applied Geographic Information Science; Environmental Conservation, Sustainability and Development; or a Custom Concentration that is tailored to student interests. Facilities include four state-of-the-art computer laboratories used for instruction, research, and applied work housed in the Geospatial Commons. The computer labs include the following geography-related software packages: ArcGIS (through an ESRI site license), TerrSet Geospatial Monitoring and Modeling Software (University site license), QGIS, Matlab, PCI Geomatica, Trimble Pathfinder Office, eCognition, R, SPSS and others. Additionally, a wide variety of field and analytical equipment is available to students and faculty. This includes a large topographic map and aerial photograph collection, water and soil testing equipment, meteorological equipment, a GPS base station, and Trimble GPS units.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Admission is handled by the Admissions Office. Applicants must have a high school diploma, submit appropriate forms, references, and SAT scores. All applicants are encouraged to visit the Geographic Science Program website and visit the JMU Admissions website: www.jmu.edu/admissions/. Applicants can also write to the Admissions Office, James Madison University, MSC 0101, Harrisonburg, Virginia 22807 for application materials.

FACULTY:

Mace Bentley, Ph.D., Georgia, 1999, Professor — climatology, human-environment interactions, critical physical geography

Thomas Benzing, Ph.D., Michigan, 1993, Professor — hydrology, water resources

Dudley Bonsal, Ph.D., Minnesota, 2015, Assistant Professor — GIS, cartography, land use/land cover analysis, agent-based modeling, landscape ecology, soundscapes

Zachary Bortolot, Ph.D., Virginia Tech, 2004, Associate Professor — remote sensing, GIS, natural resources

Jennifer Coffman, Ph.D., North Carolina, 2000, Associate Professor — environment, development, political ecology, sociocultural change, East Africa

Joy Ferenbaugh, Ph.D., Texas Tech, 2007, Assistant Professor — wildlife management, anthropogenics on ecosystems

Amy Goodall, Ph.D., Nebraska-Lincoln, 1999, Associate Professor — biogeography, biodiversity, human-environment interactions

Mary Kimsey, Ph.D., Georgia, 1991, Professor — climatology, humanitarian affairs and the Caribbean

Robert Kolvoord, Ph.D., Cornell, 1990, Professor and Dean of the College of Integrated Science and Engineering — environmental GIS

Helmut Kraenzle, Ph.D., Ludwig-Maximilians-University of Munich, 1991, Professor — GIS, spatial databases

David McGraw, JD, Georgetown, 1997, Professor — political geography, environmental law and ethics

Galen Murton, Ph.D., Colorado, 2017, Assistant Professor — development, cultural geography, Tibet and Himalaya Region

Carole Nash, Ph.D., Catholic University 2009, Associate Professor — cultural ecology, landscape, field studies

Maria Papadakis, Ph.D., Indiana, 1991, Professor — population geography, energy and environment, economic development

Wayne Teel, Ph.D., Cornell, 1994, Professor — geography of Africa, sustainability, agroforestry

Henry Way, Ph.D., Kansas, 2008, Associate Professor — cultural, urban and political geography

Kayla Yurco, Ph.D., Penn State, 2017, Visiting Assistant Professor — conservation and development, feminist geography, political ecology, sub-Saharan Africa

EMERITI FACULTY

Mike Deaton, Ph.D., Virginia Tech, 1980 — spatial analysis, statistics, systems modeling

Joseph Eneedy, Ph.D., Kent State, 1972 — North America geography and regional geography
Jack Gentile, Ph.D., Oregon State, 1983 — resource and environmental geography
Glen C. Gustafson, Ph.D., Munich, 1973 — aerial photography and remote sensing

OLD DOMINION UNIVERSITY

DEPARTMENT OF POLITICAL SCIENCE & GEOGRAPHY

DATE FOUNDED: 1980

GEOGRAPHY DEGREES OFFERED: B.A., B.S.; M.A. in Humanities (Concentration in Human Geography)

GEOGRAPHY DEGREES GRANTED 6/1/17-5/31/18: 32 Bachelors

GEOGRAPHY STUDENTS IN RESIDENCE: 55 Bachelors

DEPARTMENT CHAIR: Jonathan Leib

DEPARTMENT ADMINISTRATIVE ASSISTANT: LaToya Dixon

FOR CATALOG AND FURTHER INFORMATION WRITE TO: For general University information contact the Office of Admissions; for information about the Geography Program contact the Department Chair, Old Dominion University, Norfolk, Virginia 23529-0088. Telephone (757) 683-3841. Fax (757) 683-4763. E-mail: jleib@odu.edu Internet: <http://www.odu.edu/al/pols-geog/>

PROGRAMS AND RESEARCH FACILITIES: The geography program at Old Dominion University is staffed by a professionally active faculty committed to research, teaching, and close interaction with majors and minors. Both the B.A. and B.S. degrees are designed to provide students with a broad-based background in the discipline and a command of the tools of geographic research. In addition to a general major, students may specialize in Geographic Information Systems (GIS), Urban Geography, or Environment and Resources. Students may also pursue certificate programs in Geographic Information Science and in the Spatial Analysis of Coastal Environments.

The department offers extensive coursework in geospatial technology, including GIS, remote sensing, and spatial analysis, supported by a state-of-the art research and instructional GIS laboratory. In addition, the department offers a Human Geography concentration within the interdisciplinary M.A. degree program in Humanities, and participates in the interdisciplinary B.A., M.A., and Ph.D. degree programs in International Studies.

Located in the Hampton Roads region of southeastern Virginia, Old Dominion University is a metropolitan research university with a diverse student population of nearly 25,000. The University is a national leader in the study of the impacts of sea level rise, and the geography program actively participates in both a university-wide Resiliency Collaborative and the Commonwealth of Virginia Center for Recurrent Flooding Resilience. ODU is also the center for geospatial technologies in the Hampton Roads region and houses the Center for Geospatial & Visualization Computing. Research collaborations and internships routinely occur with NASA Langley Research Center, the Virginia Space Grant Consortium, federal and state agencies, municipal governments, and private sector companies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester plan. Requirements for admission to the University include 16 units of credit from high school and official results of the SAT. Applications for admission are handled by the

Office of Admissions and are reviewed continually. Most of the University's financial aid is awarded on the basis of family financial need. Further information on financial aid is available from the Office of Financial Aid and Student Employment.

FACULTY:

Michael Allen, Ph.D., Kent State, 2014, Assistant Professor — climatology, climate change, bioclimatology, meteorology
Thomas Allen, Ph.D., UNC-Chapel Hill, 1995, Professor — GIS, spatial analysis, coastal, environmental
Federica Bono, Ph.D., KU Leuven, 2018, Lecturer — political ecology, food and agriculture, economic, urban, Latin America, GIS
Thomas Chapman, Ph.D., Florida State, 2007, Associate Professor — cultural, economic, urban, political, social justice, GIS
Nicole Hutton, Ph.D., South Florida, 2016, Assistant Professor — natural hazards, organizational resilience, environmental justice
Timothy Kidd, M.S., Alabama, 2002, Senior Lecturer — political, cultural, ethnic minorities, Europe
Jonathan Leib, Ph.D., Syracuse, 1992, Professor and Department Chair — political, American South, 'race' and ethnicity, cultural
Hua Liu, Ph.D., Indiana State, 2007, Associate Professor — GIS, remote sensing, urban environmental changes

ASSOCIATED FACULTY:

Zand Bakhtiari, M.A., George Washington, 2015, Adjunct Instructor — GIS
Christine Drake, Ph.D., Rutgers, 1977, Professor Emerita — Asia, Africa, cultural, world resources
Georgianne Hribar, Ed. D., Nova Southeastern, 2005, Adjunct Assistant Professor — Europe, Russia, cultural, GIS
Heather Jersild, M.S., UC-Davis, 1989, Adjunct Instructor — environmental, cultural
George McLeod, M.S., Old Dominion, 2009, Adjunct Instructor & Assistant Director for Geospatial & Visualization Systems — geospatial technologies
Valerie Mervine, M.A.S., Arizona State, 2009, Adjunct Instructor — cultural
Donald Zeigler, Ph.D., Michigan State, 1980, Professor Emeritus — urban, Middle East, Latin America

UNIVERSITY OF MARY WASHINGTON

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1959

DEGREES OFFERED: B.A., B.L.S., Certificate in GISc, M.S. in Geospatial Analysis

GRANTED 9/1/16-8/31/17: 30 B.A. Geography, 24 Certificates in GISc, 9 M.S. Geospatial Analysis

MAJORS: 93

CHAIR: Jackie Gallagher

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Jacqueline Gallagher, Chair, Department of Geography, University of Mary Washington, Fredericksburg, Virginia 22401. Telephone (540) 654-1493. Fax (540) 654-1074. E-mail: jgallagh@umw.edu. Internet: <http://cas.umw.edu/geography/> and <http://cas.umw.edu/gis/masters/>.

PROGRAMS AND RESEARCH FACILITIES:

The University of Mary Washington is public liberal arts institution with about 4000 undergraduate students. The Geography Department offers a professional master's of science in Geospatial Analysis (MSGA) and two undergraduate programs: a major in Geography and a Certificate in GISc. The Bachelor of Liberal Studies (BLS) is an

adult degree-completion program with a major in Geography. The MSGA program is designed for professionals and four-year college graduates who have successfully completed at least two GIS-related courses. The program emphasizes spatial thinking, web-based GIS, image analysis, and statistical modeling. It can be completed in 12-months by full-time students.

The geography major has three areas of emphasis: 1) Community, Development, and Culture; 2) Globalization; and 3) Nature and Society. All geography majors receive rigorous training in research methods and geographic techniques appropriate for their area of emphasis and are encouraged to pursue independent research projects and/or internships. The GISc certificate includes required courses in GIS programming and a capstone research project typically completed through an internship. The department's strengths are enhanced by its involvement with interdisciplinary programs in Climate Science, Environmental Science, Urban Studies, Social Justice, International Affairs, American Studies, Latin American Studies, and Middle Eastern Studies. This geography program prepares students for further study at the graduate level in geography, planning, and related disciplines, as well as for careers with a variety of governmental agencies and private organizations. Recent graduates work in GIS/cartography, urban and regional planning, intelligence, and environmental consulting.

The department's facilities include laboratories for training and student-faculty research in GIS, cartography, remote sensing, pollen analysis, and physical geography. The affiliated Center for Spatial Analysis and Research generates grants and contracts that provide undergraduate research and internship opportunities. UMW's location midway between Washington, DC, and Richmond, VA offers immediate access to numerous major research libraries as well as abundant opportunities for internships with private organizations, international institutions, and federal, state, and local agencies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

The University of Mary Washington employs a semester system. For undergraduates, the university takes a personal approach to admissions. Each application is reviewed and weighed along with a variety of other supporting information. Successful applicants are usually in the top one-fifth of their high school class and have combined S.A.T scores averaging over 1200. Acceptance of the university's Honor System is a prerequisite for enrollment and competence in a foreign language is a requirement for graduation. Financial aid is available from a variety of sources for all students who can demonstrate need. The MSGA is a 30-credit, 12 month program culminating in a capstone project completed through an independent project. Students accepted into the program typically have at least a 3.0 undergraduate GPA and have either completed two college-level GIS-related courses or demonstrate professional experience equivalent to such courses.

FACULTY:

Dawn S. Bowen, Ph.D., Queen's University, 1998, Professor — historical, environmental, North America, Latin America, field methods
Caitlyn Finlayson, Ph.D., Florida State University, 2012, Assistant Professor — cultural geography, geography of religion, geographic thought, nature-society, research methods
Jacqueline Gallagher, Ph.D., UCLA, 1996, Associate Professor and Chair — Quaternary geomorphology, biogeography, natural hazards, GPS and mobile GIS, field methods
Stephen P. Hanna, Ph.D., University of Kentucky, 1997, Professor — critical cartography and GIS, landscape and race, globalization and local development
Marco Millones Mayer, Ph.D., Clark University, 2011, Assistant Professor — GIScience, Remote Sensing, human-environment interactions, policy impact evaluation, risk assessment

Joseph W. Nicholas, Ph.D., University of Georgia, 1991, Associate Professor — geomorphology, Quaternary studies, climatology, alpine environments

Melina A. Patterson, Ph.D., Rutgers University, 2002, Associate Professor — urban geography and planning, community development, political geography of education, emergence of the modern world economy

Brian Rizzo, Ph.D., University of Virginia, 2008, Associate Professor and Director, GIS Programs — GIScience, environmental science, business applications of GIS

Farhang Rouhani, Ph.D., University of Arizona, 2001, Professor — political and cultural globalization, Middle East, social justice, international migration, qualitative methods

Ping Yin, Ph.D., University of Georgia, 2012, Assistant Professor — GIScience, spatial epidemiology, web-based GIS

UNIVERSITY OF RICHMOND

DEPARTMENT OF GEOGRAPHY AND THE ENVIRONMENT

DATE FOUNDED: 2008

DEGREES OFFERED: B.A.

CHAIR: David Salisbury

DEPARTMENT ADMINISTRATIVE ASST: Nancy Propst

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Dr. David Salisbury Department of Geography and the Environment, University of Richmond, #309 Carole Weinstein International Center, Richmond, Virginia 23173. Telephone (804) 289-8661. Fax (804) 484-1577. E-mail: dsalisbu@richmond.edu Internet: <http://geography.richmond.edu/>.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and the Environment is the University of Richmond's newest department. Our objective is to cultivate informed and engaged global citizens through an emphasis on integrative problem solving, spatial analysis, and communication skills. Our department bridges the natural sciences, social sciences, and the humanities to provide a better understanding of the earth's cultural and biological diversity.

Majors and minors complete course work in three areas: (1) human geography; (2) geographical techniques; and (3) physical geography and environmental systems. The department has a state-of-the-art computer facility dedicated exclusively to spatial analysis (<http://geography.richmond.edu/spatial-analysis-lab/index.html>). Our curriculum highlights active, experiential learning and community engagement. Students are encouraged to study abroad. Internships and independent studies are encouraged throughout the year. Paid summer research fellowships and paid summer internships are available.

The department hosts a chapter of Gamma Theta Upsilon, the International Geographical Honor Society, and a student-run Geography Club.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

University of Richmond is on a semester plan. Admission requirements are available from the Office of Admissions (<http://admissions.richmond.edu/>) and financial aid information may be obtained from the Financial Aid Office (<http://financialaid.richmond.edu/>).

FACULTY:

Mary Finley-Brook, Ph.D., University of Texas, Austin, 2006, Associate Professor — political geography, economic geography, university sustainability, climate policy, Indigenous Peoples, territoriality and land rights, Latin America and the Caribbean

Kimberley Browne, M.S., George Mason University, 1993, Director of the Spatial Analysis Lab and Professor of Practice — GIS, human geography, Middle East

Todd R. Lookingbill, Ph.D., Duke University, 2003, Associate Professor — landscape ecology, physical geography, natural resources management, parks and protected areas, James River watershed

David S. Salisbury, Ph. D., University of Texas, Austin, 2007, Associate Professor and Chair — conservation and development, political ecology, Amazonia, borderlands, cartography

Stephanie Spera, Ph.D., Brown University, 2016, Assistant Professor — remote sensing, conservation, sustainability, Latin America

VIRGINIA TECH

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1975

GRADUATE PROGRAM FOUNDED: M.S. 1979, Ph.D. 2006

DEGREES OFFERED: B.A. Geography, B.S. Meteorology, M.S. Geography, Ph.D. Geospatial and Environmental Analysis

DEGREES GRANTED 9/1/17 – 8/31/18: 49 B.A.

Geography, 22 B.S. Meteorology, 9 M.S. Geography

MAJORS: 102 B.A. Geography, 124 B.S. Meteorology, 22 M.S. Geography, 14 Ph.D. Geospatial and Environmental Analysis

CHAIR: Tom Crawford

PROGRAM ADMINISTRATIVE ASSISTANT: Karen Bland

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Visit the department's website at www.geography.vt.edu. If you have further questions, please contact the department at geography@vt.edu or department chair Dr. Tom Crawford (tome3@vt.edu). Main contact information: Department of Geography, 115 Major Williams Hall, 220 Stanger St, Blacksburg VA 24061-0115. Telephone: (540) 231-7557. Undergraduate Inquiries: Ms. Maureen Deisinger (mdeising@vt.edu). M.S. Inquiries: Dr. Korine Kolivras (korine@vt.edu). Ph.D. Inquiries: Dr. James Campbell (jayhawk@vt.edu).

PROGRAMS AND RESEARCH FACILITIES:

PROGRAMS: The Department offers the B.A. in Geography, the B.S. in Meteorology, and the M.S. in Geography. We also participate in the College of Natural Resources and Environment Ph.D. program in Geospatial and Environmental Analysis. Founded in 1975, the Geography Department at Virginia Tech is part of the College of Natural Resources and Environment (CNRE), which for the past three years has been the #1 ranked college/school of this type in the U.S. according to USA Today College. The department's mission is to foster an appreciation and understanding of the diversity of Earth's physical and cultural environments, the importance and value of a spatial perspective, and an understanding of the complex interrelationships between peoples and their environments at a variety of scales. Our goal is to provide students with the intellectual and technical skills to synthesize information, become critical thinkers, develop into better and more informed citizens, and find success in employment or further academic training. Our department emphasizes teaching and scholarship involving four themes: 1) human-environment relationships – how culture, gender, economy, and politics affect people's use of and interaction with the environment; 2) international development – the relations between developed and developing countries and the impacts of globalization at local, national, and regional levels; 3) environmental systems – the interrelations among patterns of climate, landforms, vegetation, soils

and water, including the factors and processes that produce those patterns; and 4) geospatial analysis – the use of Geographic Information Systems (GIS), Global Positioning Systems (GPS), computer mapping, and remote sensing in geographic analyses. Research and internship opportunities abound in the surrounding southwestern Virginia region that is home to the Washington and Jefferson National Forest, national park service lands of the Blue Ridge Parkway, and the Blacksburg National Weather Service (NWS) office. Undergraduate students also commonly find placement in internships within the metropolitan Washington, DC region.

FACILITIES: The program has a wide range of facilities necessary for advanced training in geospatial and environmental analysis, including state-of-the art labs for GIS and for biogeography (for the study of recent and long-term environmental history and vegetation change). Two biogeography Laboratories offer advanced facilities for the study of recent and long-term environmental history and vegetation change through analysis of lake sediment and/or tree rings. Equipment resources include refrigerated storage, computers, several Leica compound microscopes with digital imaging capability used in paleoecological research, a Colinvaux-Vohnout Sediment Coring system, Fume Hood, isotemp Furnace, and a Velmex tree-ring measurement system used in dendrochronological analysis. Our Physical Geography Lab includes equipment for soil sampling, sample desiccation and microscopic viewing. The Department's GIS Laboratory offers a full range of XP workstation for classes and for research, including specialized systems for GIS, cartography, and remote sensing. Software packages include the complete suite of desktop and workstation ArcGIS, Surfer, Trimble GPS Pathfinder, IDRISI, ERDAS IMAGINE, ENVI/IDL, and eCognition. Located at a comprehensive research university, the Virginia Tech library offers an excellent journal and monograph collection in geography, worldwide coverage by maps and atlases, and extensive electronic journals and databases. The Center for Environmental Applications of Remote Sensing (CEARS), housed in the College of Natural Resources and Environment, is a world-class geospatial research facility established in 1997 as a NASA center of excellence in applications of remote sensing to regional and global integrated environmental assessments. With core faculty in both the Geography and Forest Resources and Environmental Conservation departments, it is Virginia Tech's focal point for interdisciplinary research, instruction, and outreach focused on remote sensing applications. Doctoral candidates in this program will have the opportunity to interact with CEARS researchers who have extensive expertise with a wide variety of data types (including active and passive microwave, multispectral, hyperspectral, LIDAR, aerial photographs) and application areas (such as temperate and tropical forestry, limnology, ecological modeling, marine biology, environmental monitoring, urban ecology, carbon sequestration, tropical biodiversity assessment, phenology studies, rangeland management, invasive species, and fire fuel loading).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Undergraduate tracks include the B.A. in Geography and the B.S. in Meteorology. Both degrees share a common core covering physical, human and regional geography and require at least four mapping and GIS courses. The geography degree also offers courses spanning faculty specializations in biogeography, geomorphology, weather and climate, human geography, urban geography, health/medical geography, population and development, sustainability science, gender and environment, international development, water resources, hazards, population; and geospatial techniques including GIS, remote sensing, and quantitative spatial analysis methods. The meteorology degree is the only such degree in Virginia. In addition to the common core, meteorology students must take eight hours of physics and eight hours of calculus. Twenty-five credits of other required meteorology courses within the department include weather analysis, severe weather, dynamic meteorology, synoptic meteorology, physical meteorology and others. Students in

both undergraduate degree programs are required to complete a three credit hour field experience which can be satisfied by: study abroad, internship, undergrad research, or field study course. The department offers minors in Geography, GIS, and Meteorology, and leads an interdisciplinary minor in Sustainability.

GRADUATE: The graduate MS in Geography program is open to qualified students holding a Bachelor's degree from an accredited college. Both geography and non-geography majors are encouraged to apply. Applicants are expected to have maintained at least a 3.0 (on a 4.0 scale) grade-point average for their final two years of undergraduate study. Individual students' backgrounds and interests will be considered in developing programs and course requirements. Graduate Record Exams (General Test) scores are required of all students and TOEFL (Test of English as a Foreign Language) scores are required of all international students whose first language is not English, except those applicants who have graduated from an accredited university at which English is the language of instruction. The Ph.D. in Geospatial and Environmental Analysis program requires a master's degree preferably with a geospatial emphasis, GRE scores and gives preference to applicants with a 3.2 Grade Point Average or higher. *Financial Aid:* Department Graduate Teaching Assistantships provide a competitive stipend for the nine-month academic year as well as a full tuition waiver. Prospective applicants are encouraged to contact faculty about potential research assistantships that individual faculty may have available through grant activities. Additional scholarships and financial support for undergraduate and graduate research, professional meeting participation, and study abroad are available from the Sidman P. Poole Endowment in Geography that is administered within the department. Virginia Tech operates on the semester system.

FACULTY:

Timothy D. Baird, Ph.D., North Carolina, 2012, Associate Professor — coupled human and natural systems, pastoral systems, sustainability science, Africa
John D. Boyer, M.S., Virginia Tech, 1998, Senior Instructor — world regions, viticulture, educational technology
Anamaria Bukvic, Ph.D., Virginia Tech, 2012, Research Assistant Professor — coastal hazards, adaptation & resilience, vulnerability, relocation & displacement, climate change, disaster risk reduction
James B. Campbell, Ph.D., Kansas, 1976, Professor — remote sensing, soils & geomorphology, landuse/cover change, quantitative methods
David Carroll, M.S. Mississippi State, 2002, Instructor — meteorology, severe weather
Laurence W. Carstensen, Ph.D., North Carolina, 1981, Professor — GIS, cartography, wireless telecommunications modeling & unmanned vehicle navigation
Thomas W. Crawford, Ph.D., North Carolina, 2000, Professor and Department Head — coastal geographies, human-environment interactions, hazards, resilience, health geographies, geospatial applications
Maureen M. Deisinger, M.S., Iowa State, 1993, Undergraduate Advisor — advising & student services
Andrew W. Ellis, Ph.D., Delaware, 1997, Associate Professor — hydroclimatology, climate variability and change, meteorology, drought, water resources
Luke Juran, Ph.D., Iowa, 2012, Assistant Professor — human ecology of water, hazards & disasters, South Asia, mixed methods
Lisa M. Kennedy, Ph.D., Tennessee, 2003, Associate Professor — physical geography, biogeography, fire history & ecology, Quaternary paleoenvironments, Caribbean, Appalachia
Korine N. Kolivras, Ph.D., Arizona, 2004, Associate Professor — medical geography, climate and health, GIS applications
Robert Oliver, Ph.D., Queens, 2008, Associate Professor — human geography, sports and public spaces, mega-events, urban, political

**Thomas Pingel, Ph.D., UC-Santa Barbara, 2010, Associate Professor* — GIScience, terrain analysis, LiDAR, geovisualization, UAVs, spatial cognition, transportation
Lynn M. Resler, Ph.D., Texas State University, 2004, Associate Professor — physical geography, biogeography, mountain geography, alpine treeline, species interactions, field methods, geospatial techniques
Santosh Rijal, Ph.D., Southern Illinois, 2017, Visiting Assistant Professor — GIS, remote sensing, ecosystem services, natural resource management, land disturbance
Steward Scales, M.S., Virginia Tech, 2011, Instructor — cartography, map design, physical geography, Appalachia, Virginia
Yang Shao, Ph.D., North Carolina, 2007, Associate Professor — remote sensing, GIS, land use/cover change, watershed analysis, high performance geocomputation
Kenneth L. Stiles, M.A., Old Dominion, 1988, Instructor — national security, intelligence, global conflicts, counter terrorism, geospatial
Stephanie E. Zick, Ph.D., Florida, 2016, Assistant Professor — meteorology, tropical systems, cyclone dynamics and structure, geospatial methods, numerical weather prediction, radar & satellite data

***Appointed August 2018**

ASSOCIATED & EMERITUS FACULTY:

Stacy Boyer, M.S., Virginia Tech, 2012, Instructor — Infectious diseases, refugee health, HIV/AIDS, gender and poverty
Maria Elisa Christie, Ph.D., Texas, 2003, Director, Women and Gender in International Development, Center for International Research, Education and Development — gender, agriculture, and development, cultural and political ecology, geography of food, qualitative methods, participatory mapping
Randal Dymond, Ph.D., PE, Pennsylvania State University, 1987, Professor, Civil and Environmental Engineering — GIS, storm water, watershed management, infrastructure, land development planning, visualization
Charles M. Good, Ph.D., Chicago, 1970, Professor Emeritus — medical, Africa, Third World development, immigration
Lawrence S. Grossman, Ph.D., Australian National, 1979, Professor — Caribbean, Third World development, political ecology, colonial environmental history
Robert W. Morrill, Ph.D., Clark, 1973, Professor Emeritus — geographic education, North America, political
Bonham C. Richardson, Ph.D., Wisconsin, 1970, Professor Emeritus — historical, Caribbean, human ecology
Joseph L. Scarpaci, Ph.D., Florida, 1985, Professor Emeritus — urban, social, Latin America
Peter Sforza, M.S., Virginia Tech, 2005, Director, Center for Geospatial Information & Technology, Research Associate — remote sensing, geospatial informatics, biosecurity, epidemiology, weather and climate
Randolph Wynne, Ph.D., Wisconsin-Madison, 1995, Professor, Forest Resources and Environmental Conservation — remote sensing, ecological modeling, natural resource management

WASHINGTON

CENTRAL WASHINGTON UNIVERSITY

DEPARTMENT OF GEOGRAPHY

FOUNDED: 1935

GRADUATE PROGRAM FOUNDED: 1983

DEGREES OFFERED: B.A., B.S., M.S.

GRANTED 6/01/16 - 5/31/17: 17 Bachelors, 14 Masters

STUDENTS IN RESIDENCE: 66 Majors, 35 Masters

NOT IN RESIDENCE: 29 Masters

CHAIR: John Bowen

DEPARTMENT SECRETARY: Monica Reece-Bruya

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: John Bowen, Chair, Geography, Central Washington University,
400 E. University Way, Ellensburg, Washington 98926-7420.
Telephone (509) 963-1188. TDD (509) 963-3323. Fax (509) 963-
1047. Internet: www.cwu.edu/geography.

PROGRAMS AND RESEARCH FACILITIES:

CWU offers both the B.A. and a B.S. in geography. The B.A. is a good choice for students who want flexibility to customize their curriculum beyond the five-course core common to all Geography majors. The B.A. offers broad training that will lead to careers in international affairs and trade, planning, or education. Students pursuing the B.S. may choose either the geographic information science (GIScience) specialization or the environmental and resource geography specialization. The GIScience route provides a suite of skills to process, analyze, and interpret geospatial data and teaches students how to use the skills to solve real-world problems. The environmental and resource geography specialization emphasizes laboratory and field research skills and provides comprehensive, integrated scientific knowledge of Earth systems and their relationship to human societies—especially in the Pacific Northwest. This option gives students a leg up in a wide range of careers, especially natural resource management.

Courses in our program emphasize field learning, both in physical and human geography. Additionally, many of our majors complete internships with public and private organizations in the Pacific Northwest. On campus, the department also maintains a well-equipped Geography Information Systems laboratory that benefits majors from other programs in addition to geography. We also have state-of-the-art labs for work in paleoecology, soil science, and hydrology.

Geography is one of three main departments that support an interdisciplinary M.S. in Cultural & Environmental Resource Management (CERM) degree, providing most of the natural resource component of the program. Details of this program are available at www.cwu.edu/resource-management. Recent master's thesis research efforts have focused on restoration of salmon habitat, water resources and watershed analysis, sacred sites and indigenous geographies, historic preservation, regional land use planning, and forest recreation management. Geography is also actively involved in several other interdisciplinary programs, including Asian Studies, Environmental Studies, Integrated Energy Studies, Latino & Latin American Studies, and Public Policy.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Central Washington University operates on the quarter system with ten-week terms beginning in mid-September. Admission to the University requires a comprehensive high school background with a

minimum grade average of C+/B-. Financial aid is available to qualified students. Details on admissions and financial aid are available from the Admissions Office, Central Washington University, 400 E. 8th Ave., Ellensburg, Washington 98926.

Admission to the Resource Management graduate program requires a solid academic background in a relevant field, of which geography is but one possibility and academic recommendations. See www.cwu.edu/resource-management. Assistantships are available to qualified applicants. Central Washington University is an EEO/AA/Title IX Institution.

FACULTY:

Kevin Archer, Ph.D., Johns Hopkins University, 1990, Dean of Graduate Studies & Research — social construction/production of nature, globalization

John T. Bowen, Jr., Ph.D., University of Kentucky, 1993, Professor and Chair — economic geography, air transport systems, logistics, Southeast Asia

Elvin Delgado, Ph.D., Syracuse University, 2012, Associate Professor — political ecology, energy and capitalism, critical resource geography

Holly A. English, M.S., University of Denver, 1998, Senior Lecturer — environmental studies, energy resources

Anthony O. Gabriel, Ph.D., University of Guelph, 1993, Professor — physical geography, biogeography, coastal environments, wetlands

Elaine K. Glenn, M.S., Brigham Young University, 1987, Senior Lecturer — world regional geography, political geography, Russia, Middle East

Robert J. Hickey, Ph.D., University of Idaho, 1994, Professor — GIS and remote sensing, natural resources management, economic geology

Karl D. Lillquist, Ph.D., University of Utah, 1994, Professor — geomorphology, soils, environmental change, arid lands, mountain environments

Jennifer Lipton, Ph.D., University of Texas, 2008, Associate Professor — biogeography, landscape ecology, conservation and development, remote sensing, GIS, Latin America

Michael Pease, Ph.D., Southern Illinois University, 2008, Associate Professor — arid lands, field methods, water resources, American Southwest

Sterling Quinn, Ph.D., Pennsylvania State University, 2016, Assistant Professor — geovisual analytics, social aspects of GIS, critical cartography, web mapping approaches

Craig S. Revels, Ph.D., Louisiana State University, 2002, Associate Professor — cultural, historical, and economic geography, Latin America

Megan Walsh, Ph.D., University of Oregon, 2008, Associate Professor — paleoecology, physical geography, Pacific Northwest

EMERITI FACULTY:

Dee R. Eberhart, M.A., Northwestern University, 1950 — economic geography, land development, Europe

Kenneth A. Hammond, Ph.D., University of Michigan, 1969 — conservation, resource planning and legislation, Pacific Northwest

James L. Huckabay, Ph.D., University of Kansas, 1975 — energy resources, climatology, air photo interpretation

Nancy B. Hultquist, Ph.D., University of Idaho, 1991 — economic geography, GIS, urban geography, computer cartography

Robert Kuhlken, Ph.D., Louisiana State University, 1994 — historical geography, urban and regional planning, cultural ecology, Oceania, North America

John Q. Ressler, Ph.D., University of Oregon, 1970 — cultural geography, Latin America, GIS

Morris L. Uebelacker, Ph.D., University of Oregon, 1987 — human geography, field methods, Columbia River Basin

STAFF:

David Cordner, M.S., Instructional & Classroom Support Technician
III

Monica Reece-Bruya, Secretary Senior

Craig Scrivner, Ph.D., Systems Administrator

EASTERN WASHINGTON UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND ANTHROPOLOGY

DATE FOUNDED: 1955

DEGREES OFFERED: B.A., M.A.

GRANTED 07/01/016-06/30/17: 16 Bachelors

STUDENTS IN RESIDENCE: 40 Majors, 10-15 Graduate
Students

CHAIR: Stacy Warren

DEPARTMENT ADMINISTRATIVE ASST: LeAnn
Knoles

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Stacy Warren, Chair, Department of Geography and
Anthropology, 103 Isle Hall, Eastern Washington University, Cheney,
Washington 99004-2417. Telephone (509) 359-7962 or 359-2433.
Internet: www.ewu.edu.

PROGRAMS AND RESEARCH FACILITIES:

The Department of Geography and Anthropology at Eastern Washington University is a small yet dynamic program, with research and teaching foci that span both human and physical geography. We are located in the heart of the Intermountain Northwest, with campuses in Cheney and Spokane, and are in close proximity to the Northern Rocky Mountains, Columbia Basin, Channeled Scablands, and the Palouse.

The EWU undergraduate program in geography seeks to cultivate geographic literacy as an indispensable element of a liberal arts education. A broad range of course offerings serve students seeking both professional careers and continued higher education. Areas of current faculty interest include critical urban studies, political geography, critical GIS, geography of children, popular culture theory, water resource management, dendrochronology, geomorphology, climatology, wetland science, energy and transportation, and environmental studies. Many courses are cross-listed, as the Geography program works with the Anthropology, History, Geology, International Affairs, Urban and Regional Planning, Computer Science, Biology and Education. Geography majors are encouraged to participate in an active internship program to gain practical employment skills before graduation and/or as part of a broader research project. We also offer certificates in GIS and Wetland Studies, as well as an interdisciplinary M.A. degree in Critical GIS and Public Anthropology. The Master's program is oriented toward research projects that are, though not exclusively, actively engaged with community organizations.

Geography, along with the affiliated programs of Anthropology, Archaeological & Historical Services occupies Isle Hall at the Cheney campus. The department has a fully equipped Geographic Information Systems Laboratory, as well as a map library that contains a 200,000-sheet collection.

ACADEMIC REQUIREMENTS AND FINANCIAL AID:

Eastern Washington University is a regional state university and offers classes on a four-quarter schedule, Fall through Summer.

GEOGRAPHY FACULTY:

Matthew Anderson, Ph.D., University of Illinois at Urbana-Champaign, 2012, Assistant Professor — Critical urban studies, political geography, natural resource management, critical social and spatial theory

Brian Buchanan, Ph.D., Durham University (UK), 2015, Assistant Professor [Joint Appointment with Anthropology] — GIS, Landscape archaeology, archaeology and related humanities

Erin Dorothea Dascher, Ph.D., Texas State University, 2017, Assistant Professor — environmental geography, soil science, wetlands, surface hydrology, geomorphology

Robert Sauders, Ph.D., American University, 2007, Associate Professor [Joint Appointment with Anthropology] — Political, cultural heritage and anthropological studies, Middle East, Palestine, cultural studies

Lauren Stachowiak, Ph.D., University of Tennessee, 2016, Assistant Professor — Dendrochronology, forest fire behavior, climate science, and geomorphology

Stephen Tsikalas, Ph.D., Texas State University, 2012, Assistant Professor — physical geography, remote sensing, climatology, meteorology, natural hazards

Stacy Warren, Ph.D., University of British Columbia, 1994, Professor — Cultural and urban, critical GIS, Disney studies, popular culture theory, geography of children

UNIVERSITY OF WASHINGTON

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1935

GRADUATE PROGRAM FOUNDED: 1935

DEGREES OFFERED: B.A., M.A., M.GIS, Ph.D.

GRANTED 10/1/15-9/1/16: 98 Bachelors, 21 Masters (6 In-Residence M.A., 15 Online M.GIS), 6 Ph.D.

STUDENTS IN RESIDENCE: 276 Majors, 29 Masters, 18
Ph.D.

NOT IN RESIDENCE: 6 Ph.D.

CHAIR: Lucy Jarosz

DEPARTMENT ADMINISTRATOR: Sharon Frucci

FOR FURTHER INFORMATION CONTACT: James Baginski, Director of Academic Services, 415 B Smith Hall, Department of Geography, Box 353550, University of Washington, Seattle, Washington 98195. Telephone (206) 543-3246. Fax (206) 543-3313. Email jbag@uw.edu. Comprehensive information on the department is available at: <https://geography.washington.edu/>. Information about our Professional Master's Program in Geographic Information Systems and Sustainability Management is available through the website, <http://www.gisonline.uw.edu/>.

PROGRAMS AND RESEARCH FACILITIES:

Undergraduate Studies: The undergraduate instructional program in Geography is organized around the faculty's research specialties and teaching expertise in areas ranging from urban and regional studies to global studies (see the Graduate section, below). However, students are encouraged to formulate their own field of specialization. Students are required to obtain a minimum of 60 credits in geography, out of the total university graduation requirements of 180 credits. The requirements include courses in research methods and research design and are structured through thematic concentrations in Cities, Citizenship & Migration, Environment, Economy & Sustainability, GIS, Mapping and Society and Globalization, Health & Development. An internship outside the University and the writing of a senior essay are encouraged. Students must maintain an overall GPA of 2.0 and a cumulative 2.5 (and a 2.0 in individual courses) for coursework taken to fulfill requirements for their major in geography. The department also offers an Honors Program for students who are invited to join on the basis of their past academic performance and future potential.

Graduate Studies: We offer both an MA and PhD in Geography, as well as Master of Geographic Information Systems for Sustainability Management. www.gisonline.uw.edu/. Our MA and PhD programs are fashioned at the intersection of several broad research specializations. Following the work of the faculty, graduate students are encouraged to think outside the box of any particular 'adjectival' subfield of human geography. Nevertheless, our programs draw on expertise in the following key areas:

Critical Development and Global Health: Integrated program of study addressing political-economic, social, environmental, and global health dimensions of development in both urban and rural realms. Students may specialize in the Americas, Africa, China, South Asia, or on the challenges facing poor communities in rich countries. Students study theoretical perspectives and case study materials addressing the ways in which political, economic and social processes relate to the geographical dynamics shaping social inequality, development and health, including the intersections of these processes with gender, sexuality, ethnic and race relations, and class structures. They also examine the health effects and environmental consequences of development, and the developmental experiences of inequality, dispossession and exploitation that account for poor health outcomes.

Economic Geography: Particular concentrations include globalization, neoliberalism, regional economic development and underdevelopment with an emphasis on North America, Latin America, East Asia; cross-border regionalism; location theory; labor markets; labor migration (including migrant worker mistreatment and rights); resource distribution; technological change; the relationship between geoeconomics and geopolitics; and the economic lessons of the global justice movement.

Geographic Information Systems: Concepts, techniques and software/hardware tools involved in computer-assisted cartography and geographic information system design, use and social meaning. Particular emphasis is on participatory and critical GIS, analytical methods and their use in practical circumstances, including recent innovations in Web 2.0 and neo-geo mapping online. Research may include analytical cartography, geographic information representation, map error analysis, social construction of GIS technology, spatial database design, data management approaches and systems configurations, urban applications, geographic knowledge structures, transportation, environmental analysis, natural resources, user cognition and user interface design, sustainability science, spatial model coupling to GIS, and collaborative spatial decision making.

Society and Environment: Examination, analysis and interpretation of the complex inter-relationships between social dynamics and environments. The areas of focus include cultural and political ecology, health and the environment, global environmental modeling and GIS methods and applications. Research themes primarily involve questions of scale in analyzing social and environmental change at the local, regional, and global levels, and on analyzing, understanding and explaining the interactions among ecological processes, environmental transformation, and social processes and transformations in affluent and impoverished societies. Related aspects of medical geography include such topics as the ties between global environmental change and the (re)emergence and spread of contagious disease, as well as how political, social, environmental, and biological factors come together to both create and structure health vulnerability and risk management.

Urban, Social and Political Geography: Emphasis is on both the theory and empirical investigation of the geography of power, the biopolitics and governance of population and movement, both in terms of global relations and local patterns of policing and social activism. Particular emphasis is given to the relation of social, political and economic structure to spatial organization and social justice, and on issues of race, gender, sexuality, ethnicity, inequality, health and disease, policing, power and social justice as they have been theorized

in critical social theories. Attention is also paid to how political-economic geographies combine in relations of dominance, governance and resistance at a range of scales, from the urban to the regional to the transnational.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Quarter system. The University of Washington admits undergraduate students on the basis of scholastic standing, admission test scores, and adequacy of preparation for University study while in high school or another collegiate institution. Neither the College of Arts and Sciences nor the Department of Geography have separate admissions requirements, but both have graduation requirements. (Please request further information from the Office of Admissions, Box 351280, University of Washington, Seattle, Washington 98195).

Graduate: Quarter system. The departmental curriculum is flexible, and programs of study are individually arranged to suit the needs of the students. The Geography M.A. is a two-year program culminating in the writing and defense of an MA thesis. The Geography Ph.D. is a 4-6 year program in which students develop a high level of expertise of one or more specific areas within this discipline. The Ph.D. culminates in the writing and defense of a doctoral dissertation. Admission to the graduate program is competitive and requires a minimum grade point average of B (3.0 on a 4.0 scale) with average incoming GPAs usually much higher. Applicants must take the GRE. Priority admission submission deadline: December 15. Information on the graduate program may be obtained by accessing our web site: <https://geography.washington.edu/graduate-admissions>.

Note: The MGIS for Sustainability Management is administered through Professional and Continuing Education, and has a separate, stand-alone admission process:

<http://www.gisonline.uw.edu/admissions/>

FACULTY:

Luke Bergmann, Ph.D. 2012, Minnesota, Assistant Professor — Nature-Society relations, political economy, globalization, complexity, critical GIS and geovisualization, China

Christine Biermann, Ph.D. 2014, Ohio State University, Assistant Professor — political ecology, biodiversity conservation, nature and race, critical physical geography

Michael Brown, Ph.D., British Columbia, 1994, Professor — urban, political and health geography, sexuality, urban politics, political theory

Kam Wing Chan, Ph.D., Toronto, 1988, Professor — China, urbanization, migration, labor, development, and the hukou system

Mark Ellis, Ph.D., Indiana, 1988, Professor — immigration, internal migration, race and ethnicity, labor markets

Sarah Elwood, Ph.D. Minnesota, 2000, Associate Professor — relational poverty, visibility, critical geographies of technology, mixed methods

Kim England, Ph.D., Ohio State, 1988, Professor — urban, social, political and feminist geographies, work and employment, care work, the home, critical social policy, social and feminist theories

Steve Herbert, Ph.D., UCLA, 1995, Professor and Director of Law, Societies & Justice — political geography, law and law enforcement, environmental regulation, qualitative methods

Lucy Jarosz, Ph.D., UC, Berkeley, 1990, Professor and Chair — political ecology of agriculture; critical food studies; hunger and poverty; post-colonial, and feminist theory, qualitative methodology, North America

Victoria A. Lawson, Ph.D., Ohio State, 1986, Professor and Director of University Honors Program — critical development studies, relational poverty studies, the Americas, Marxist, feminist and post-colonial theory

Jonathan D. Mayer, Ph.D., Michigan, 1977, Professor, Dept. of Epidemiology; Adjunct Professor, Dept. of Medicine, Division of Infectious Diseases; Dept. of Family Medicine, Dept. of Health Services; Clinical Faculty, Travel/Tropical Medicine, UW Medical Center; International Health Program, Co-Director, Undergraduate Program in Public Health — global health; medical geography (infectious diseases and society, disease ecology; health care delivery), HIV, especially in sub Saharan Africa; HIV, gender and poverty; health policy; “slum health” in Africa; infectious disease epidemiology; genetic and molecular epidemiology; cardiovascular epidemiology; social determinants of health and social epidemiology; tropical medicine and clinical applications of medical geography; public health and global health in the undergraduate curriculum

Timothy L. Nyerges, Ph.D., Ohio State, 1980, Professor — geographic information systems, spatial decision support systems and group decision making, transportation and environmental analysis using GIS, GIS and coastal resource management, human-computer interaction and spatial cognition

Suzanne Davies Withers, Ph.D., UCLA, 1992, Associate Professor — population geography and spatial demography, longitudinal and quantitative methods, residential mobility & migration, urban housing, and property rights

Megan Ybarra, Ph.D. UC, Berkeley, 2010, Assistant Professor — nature-society relations; postcolonial theory; political ecology; transnational migrations; Latin America

EMERITI FACULTY:

William B. Beyers, Ph.D., Washington, 1967, Professor Emeritus — regional science, economic geography, geography of producer services, regional analysis, geography of the Pacific Northwest

Richard L. Morrill, Ph.D., Washington, 1959, Professor Emeritus — spatial organization, migration, diffusion and population, regional planning and development, inequality

Craig ZumBrunnen, Ph.D., UC, Berkeley, 1973, Professor, Emeritus — Russian, East European and Central Asia Studies Program, and Middle East Studies Program, Jackson School of International Studies and core faculty Urban Ecology

AFFILIATED AND ADJUNCT FACULTY:

Sunil Aggarwal, Affiliate Assistant Professor (also Palliative Medicine Physician and Associate Hospice Medical Director, MultiCare Auburn Medical Center, Auburn, Washington) — Pain Medicine, Hospice and Palliative Care Medicine, Rehabilitation Medicine, Cannabinoid Integrative Medicine, Geography of Access, Delivery, and Development Psychoactive Biotic Therapeutic Landscapes, Enclosures, and Seed Sovereignty, Social Medicine, Health and Human Rights

Christian Anderson, Adjunct Assistant Professor (also School of Interdisciplinary Arts and Sciences, University of Washington Bothell) — how everyday practices intersect with broader political-economic and cultural processes such as globalization and gentrification in cities, inequality, structural violence, social justice

Kathleen Braden, Affiliate Professor (also Department of Geography, Seattle Pacific University) — Russian studies, resources and technology

Richard Conway, Affiliate Associate Professor — regional economic modeling

Shannon Cram, Adjunct Assistant Professor (also School of Interdisciplinary Arts and Sciences, University of Washington Bothell) — social and political boundaries of science, culture and environment; racial identity; climate change; gender and sexuality

Matthew D. Dunbar, Affiliate Assistant Professor (also Assistant Director and GIS Program Manager Center for Studies in Demography and Ecology, University of Washington) — GIS, mobile data collection (phone devices with GPS), mapping/cartography, geocoding/address-matching, spatial

database creation, archiving, and management, spatial data acquisition, spatial statistics

Gabriel E. Gallardo, Affiliate Associate Professor (also Interim Vice President for Minority Affairs & Vice Provost for Diversity, University of Washington) — Geography of Race and Ethnicity, Ethnic Entrepreneurship, Chicano/Latino Settlement in the United States, Immigration and Diasporas, and Social Justice, Latin America, the Pacific Rim, and the Pacific Northwest, Minority Student Access to Graduate Education, Undergraduate and Graduate Student Retention Strategies, and Inclusive Excellence

Maria Elena Garcia, Adjunct Associate Professor (also Associate Professor and Director, Comparative History of Ideas) — Indigenous politics and multicultural activism in Peru, indigeneity and interspecies politics in the Andes, the cultural politics of contemporary Peru in relation to food, Indigeneity and violence

Ben Gardner, Affiliate Associate Professor (also University of Washington, Bothell) — the cultural politics of the environment, political economy of development, the post-colonial state, Africa

Michael Goodchild, Affiliate Professor (also Professor Emeritus and Research Professor, University of California Santa Barbara) — geographic information science, spatial analysis, and uncertainty in geographic data

Joseph Hannah, Affiliate Assistant Professor (also Academic Counselor, Integrated Social Sciences Program, University of Washington) — Political Geography, Critical Geopolitics, Critical Development Studies, Global Food Systems, Globalization, Critical Cartography, Global Health mapping, Geographic Information Systems (GIS), State-society relations and civil society formation in the Global South, Social Justice, Southeast Asia Studies, Vietnam Studies

Jin-Kyu Jung, Adjunct Assistant Professor (also School of Interdisciplinary Arts and Sciences, University of Washington Bothell) — qualitative GIS and qualitative geovisualization, urban geography, race, class and gender in power relations in cities, mixed methods research approaches

Lawrence M. Knopp, Adjunct Professor (also, Interdisciplinary Arts and Sciences, University of Washington, Tacoma) — sexuality and space; feminisms; political and cultural geographies; urban and rural regional studies

Santiago Lopez, Adjunct Assistant Professor (also School of Interdisciplinary Arts and Sciences, University of Washington Bothell) — GIS, social theory, nature-society relations, Latin America

Jose Antonio Lucero, Adjunct Associate Professor (also Associate Professor, Henry M. Jackson School of International Studies and Chair, Latin American and Caribbean Studies) — Indigenous politics, borderlands, social movements, comparative politics, Latin American Politics, Politics of Race and Ethnicity, Development, Political and Social Theory

L. Monika Moskal, Adjunct Associate Professor (also Acting Associate Director of the School of Environmental and Forest Sciences, Associate Professor, Remote Sensing and Geospatial Analysis Laboratory (RSGAL), College of the Environment, University of Washington) — GIS, Forestry, Remote Sensing, Environmental Conservation

Britta Ricker, Adjunct Assistant Professor (also Assistant Professor, Urban Studies, University of Washington Tacoma) — health geographies, GIScience, mobile technologies for spatial data collection

Adam Romero, Adjunct Assistant professor (also School of Interdisciplinary Arts and Sciences, University of Washington Bothell) — food systems; political economy; science and technology

James Thatcher, Adjunct Assistant Professor (also Assistant Professor, Urban Studies, University of Washington Tacoma) — GIScience, software studies, political ecology, and urban studies

WESTERN WASHINGTON UNIVERSITY

DEPARTMENT OF ENVIRONMENTAL STUDIES – GEOGRAPHY PROGRAM

DATE FOUNDED: 1952

GRADUATE PROGRAM FOUNDED: 1964

DEGREES OFFERED: B.A. in Geography, M.A. in
Environmental Studies and Geography

COMBINED MAJORS: B.A. in Geography/Social Sciences,
B.A.E. in Geography/Elementary Education

CERTIFICATES OFFERED: Geographic Information
Science

MINORS OFFERED: Geography, Disaster Risk Reduction,
Environmental Studies, Geographic Information Science,
Sustainable Design

CHAIR: Gigi Berardi

ADMINISTRATIVE MANAGER: Diane Knutson

**FOR CATALOG AND FURTHER INFORMATION WRITE
TO:** Department of Environmental Studies, Centralized Student
Services, 516 High Street – ES 534, Western Washington University,
MS-9079, Bellingham, Washington 98225-9085. Undergraduate
Advising Telephone (360) 650-2817. Graduate Advising Telephone
(360) 650-3646. Fax (360) 650-2842. Department Telephone (360)
650-3277. Fax (360) 650-7702

Internet: <https://huxley.wvu.edu/environmental-studies>

PROGRAMS:

UNDERGRADUATE: Program offers a well-rounded program covering
the fundamentals of human geography, physical geography, and
geographic research methods, with an emphasis on environmental
geography. Faculty expertise includes economic geography, cultural-
historical geography, urban planning, natural hazards planning,
biogeography, climatology, soils, agriculture, paleoclimatology, and
GIS. Regional specializations include Canada, the American West,
and East Asia. Students have access to research facilities including
the Spatial Analysis Lab, the Huxley Tree-Ring Lab, the Huxley Soils
Lab, the Planning Studio, the Resilience Institute, and the Spatial
Institute. The major prepares students to explore a wide variety of
career paths including planning, education, environmental agencies
and NGOs, business, tourism, GIS, government service,
transportation, and many more.

Geography/Social Studies B.A. major meets Washington State
requirements for a teaching endorsement and also prepares students to
teach in non-traditional settings with or without the additional
certification from Woodring College of Education.

Geography – Elementary, BAE program satisfies the academic major
requirement for teaching certification with an endorsement in elementary
education and must be accompanied by the professional preparation
program in elementary education.

GRADUATE: Graduate students have the option of focusing the M.A.
Environmental Studies degree upon geographical theories, methods,
and topics. Following a series of two common core courses, students
in this program collaborate closely with a faculty advisor to shape an
appropriate program of study.

CURRENT FACULTY AND STAFF:

*Troy Abel, Ph.D., George Mason University, 1998, Associate
Professor* — environmental policy, civic environmentalism,
environmental justice, globalization and the environment

Andrew J. Bach, Ph.D., Arizona State, 1995, Professor — physical
and environmental geography, glacial and soils geomorphology,
climate change and quaternary history, geoarchaeology

Gigi Berardi, Ph.D., Cornell, 1979, Professor — cultural geography,
environmental history, tribal and natural resources management,
Alaska

Patrick H. Buckley, Ph.D., Boston, 1988, Professor — quality of life
in a global economy, environmental entrepreneurship, cross
border regions, quantitative and optimization techniques, Delphi
modeling, regional focus: Japan, Canada, and Pacific Rim

*Kate Darby, Ph.D., Arizona State University, 2010, Assistant
Professor* — environmental justice, urban ecology, global food
policy, technology and society

*Aquila Flower, Ph.D., University of Oregon, 2013, Associate
Professor* — climatic variability, human land use patterns,
natural disturbances in shaping forest ecosystem dynamics

*Stefan Freelan, M.S., Western Washington University, 2003, GIS
Specialist*

*Nini Hayes, Ed.D., University of Massachusetts-Amherst, College of
Education, 2015, Assistant Professor* — environmental
education and justice

*Nabil Kamel, Ph.D., University of California, Los Angeles, 2004,
Assistant Professor* — social and environmental justice, post-
disaster recovery, political economy of urbanization, sustainable
development, critical urban theory, housing and poverty,
physical planning, urban design, regional and international
development

*Tamara Laninga, Ph.D., University of Colorado, 2005, Assistant
Professor* — urban land use planning and policy, U.S. and state
environmental policies and regulations, renewable energy,
collaborative decision-making, innovative public involvement
strategies, sustainable development, and growth management

*Michael J. Medler, Ph.D., University of Arizona, 1997, Associate
Professor* — GIS and remote sensing, landscape ecology,
biogeography, natural resources management and policy

Jean O. Melious, J.D., Harvard, 1984 Professor — environmental
policy and environmental law

John C. Miles, Ph.D., Union Institute, 1979, Professor Emeritus —
environmental education and history, outdoor education

Debnath Mookherjee, Ph.D., Florida, 1961, Professor Emeritus —
comparative urbanization, regional development and planning,
South Asia

O. Eugene Myers, Ph.D., University of Chicago 1995, Professor —
human ecology, human development, environmental education

Mark Neff, Ph.D., Arizona State University 2009 Associate Professor
— science/policy interface, environmental science and decision-
making, science policy, technology and the environment,
qualitative and quantitative research methods, science and
environmental conflicts, political ecology, science and
technology studies, science and culture, medicine, technology
and health

Paci-Green, Rebekah, Ph.D., Cornell University Associate Professor
— how risk perception shapes social vulnerability and unsafe
built environments, comprehensive school safety to natural
hazard risks, vulnerable populations, disaster risk reduction,
community-defined resilience, and media coverage of science
and the media-science interface

David A. Rossiter, Ph.D., York University, 2005, Associate Professor
— cultural-historical geography, political ecology, Canada

*Nick Stanger, Ph.D., University of Victoria B.C. Canada 2014
Assistant Professor* — environmental psychology, human-
environment connections, climate change behaviour,
environmental education, complexity theory, resiliency in
human and ecological systems, indigenous world views,
mindfulness and ecology, sense of place, and behavioural
change within a global citizenship context

*Paul Stangl, Ph.D., University of Texas at Austin, 2001, Associate
Professor* — urban, political, cultural, and European geography

Thomas A. Terich, Ph.D., Oregon State, 1973, Professor Emeritus —
physical geography, coastal management, natural hazards

Grace Wang, Ph.D., University of Minnesota 1997, Professor — natural resource policy, multicultural perspectives, resource management

Nicholas Zaferatos, Ph.D., Washington, 1996, Professor — environmental planning, tribal planning

WEST VIRGINIA

CONCORD UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1955

DEGREES OFFERED: B.S. Geography, B.S. Geography with an Emphasis on Geospatial Science

GRANTED 9/1/17-8/31/18: 16 Bachelors

MAJORS: 40

CHAIR: Joseph T. Manzo

DEPARTMENT ADMINISTRATIVE ASST: Pam Wallace

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Tom Saladyga, Department of Geography, Concord University, Athens, West Virginia 24712-1000. Telephone (304) 384-6040. Fax (304) 384-6091. E-mail: saladygat@concord.edu. Internet: <https://www.concord.edu/geography/>

PROGRAMS AND RESEARCH FACILITIES: Concord University is a state supported institution of higher education with an enrollment of just over 2,800 students. Concord offers the Bachelors of Science degree in Geography. We are a small department with an emphasis on undergraduate research. Every year our students present their work at various conferences, including SEDAAG and the AAG Annual Meeting. Students completing the B.A. in Geography may supplement their degree with an Area of Emphasis in Cartography and GIS or an Area of Emphasis in Pre-Environmental Law. We have recently added courses in Broadcast Meteorology, Data Analysis, and on Ethnic Cleansing and Terrorism. In addition to classroom coursework, students are provided with opportunities to complete professional internships, conduct independent research projects, and attend academic conferences. The Department operates the Environmental Geography Lab (www.saladyga-egl.com) and the R.T. Hill Spatial Analysis Laboratory which is equipped with digital hardware and software for teaching and research across the discipline. Concord is the host institution for the West Virginia Geographic Alliance.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Concord University operates under the semester system, with two five-week summer terms. Basic admission criteria require students to have an overall high school grade point average of at least 2.00 or better. Students must take either the ACT or SAT to complete admission consideration requirements. Grants, loans, part-time employment and scholarships are available for eligible students. April 15 is the deadline for priority consideration. For more information on application requirements visit: <https://www.concord.edu/admissions/node/51>. For financial aid information visit: <https://www.concord.edu/financialaid/>.

FACULTY:

Joseph T. Manzo, Ph.D., Kansas, 1978 — Cultural/Historical Geography, Geography Education

Tom Saladyga, Ph.D., West Virginia University, 2011 — Biogeography, Climatology, Dendrochronology

Shimantini Shome, Ph.D., Kansas, 2011 — Africa, Human Geography, Urban

ADJUNCT FACULTY:

Sherri Mitchem, M.Ed., 2011, Concord University

Linda Poff, M.A., Salem International University, 1999; M.Ed., Concord University, 2004 — Cultural/Historical, Physical

Todd Sink, Ph.D., Indiana State University, 2011 — Economic Geography, Geographic Information Systems

MARSHALL UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1911

GRADUATE PROGRAM FOUNDED: 1948

DEGREES OFFERED: B.A., B.S., M.A., M.S.

GEOGRAPHY CHAIR: James Leonard

DEPT. ADMIN. SECRETARY SENIOR: Paula Kouns

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: James Leonard - Chair, Department of Geography, Marshall University, One John Marshall Drive, Huntington, WV 25755. Telephone: (304) 696-4364. Email: geography@marshall.edu. Internet: www.marshall.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES:

The Department of Geography offers two degree tracks for both undergraduate and graduate students. At the undergraduate level, students who choose the B.S. track focus on a science-based curriculum involving physical geography, GIS/RS, and environmental science. Students who enroll in the B.A. track concentrate on a sequence of courses in human geography and regional geography, and GIS. Both BA and BS are available 100% online in addition to the traditional classroom. At the graduate level, the M.A. is non-thesis track and the M.S. is thesis track. The MA is available 100% online in addition to the traditional classroom. The programs are flexible and accommodate a broad spectrum of geographic study while permitting considerable specialization, even at the undergraduate level.

The Department of Geography offers access to modern technology as well as traditional practices in the discipline. The department hosts well-equipped classrooms, a Physical Geography Laboratory, and a GIS/RS Laboratory with state-of-the-art facilities.

Field work and real-world experience form an integral element of Geographic education at Marshall University. Student preparation for further academic study or entry into the job market includes participation in field research, internships, or contract employment. Marshall University's students benefit from Huntington's relative location in the Ohio Valley near major urban and industrial development and amidst a varied physical and culture geography. Graduates of the Department of Geography include urban and regional planners, GIS analysts, environmental specialists, tourism professionals, teachers, and economic development advisors.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Marshall University operates on the semester system and offers three five-week summer sessions. Graduate students may qualify for departmental Teaching Assistantships that include stipends and tuition waivers. For undergraduate students, Internships and Independent Study options are available. Graduate and undergraduate students may participate in faculty research projects.

FACULTY:

Hilton Córdoba, Ph.D., Florida Atlantic University, 200 — Transportation Geography, Spatial Analysis/GIS, Urban Geography

Jonathan Kozar, Ph.D., University of North Carolina-Charlotte — Urban-economic Geography

Kevin Law, Ph.D., The Ohio State University, 2006 — Atmospheric Science

James M Leonard, Ph.D., University of Cincinnati, 2001 — Cultural Geography, GIS

Anita Walz, Ph.D., University of Maryland, 2002 — Environmental Studies, GIS

WEST VIRGINIA UNIVERSITY

DEPARTMENT OF GEOLOGY AND GEOGRAPHY

DATE FOUNDED: 1877

DEGREES OFFERED: B.A., M.A., Ph.D.

GEOGRAPHY CHAIR: Karen Culcasi

DEPT. ADMIN. SECRETARY SENIOR: Lisa Lively

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Karen Culcasi, Associate Chair for Geography, 98 Beechurst Ave, Room 330, West Virginia University, Morgantown, WV 26506. Telephone: (304) 293-0383. Fax: (304) 293-6522. E-Mail: Karen.culcasi@mail.wvu.edu. Web: <http://geography.wvu.edu>.

PROGRAMS AND RESEARCH FACILITIES: The Geography Program within the Department of Geology and Geography offers degrees for undergraduate and graduate students. At the undergraduate level, the program offers a B.A. with concentrations in Globalization and Development, Geographic Information Science (GISci), and Natural Resources and Environment. Certificates of specialization are available in GIScience. At the graduate level, the program offers two advanced degrees: the Master of Arts in Geography and the Doctor of Philosophy in Geography. The Program has three major research focus areas: Environmental Geography, Human and Human-Environment Geography, and Geographic Information Science. The program is supported by 17 tenured or tenure track faculty, one Teaching Assistant Professor, one Research Assistant Professor, and several Professor Emeriti. Being part of the Department of Geology and Geography, students can also draw upon the expertise of an equally well resourced and attentive Geology faculty with expertise not only in deep geology but also in geomorphology, surficial processes, Karst landscapes, and hydrology.

The Department has excellent facilities in Brooks Hall on WVU's Downtown Campus. Students have access to five teaching computer laboratories with over 125 machines. Support is provided for the most geographic software. In addition, graduate students have access to their major advisor's research lab. Each faculty member in geography has his or her own 650 square foot. research lab to facilitate the university's strong emphasis on research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: West Virginia University has a traditional two-semester system with flexible summer session courses. At the undergraduate level, the program includes on-line courses in addition to in-theatre lectures. The program offers a variety of small, merit-based fellowships for undergraduates and teaching and research assistantships for M.A. and Ph.D. students. More information on admission requirements, courses, and faculty research can be found on the program web page.

FACULTY:

Martina Caretta, Ph.D., Stockholm University — gender, water, landscape, feminist methodologies.

Jamison Conley, Ph.D., Pennsylvania State — geographic information science, geocomputation, medical geography

Karen Culcasi, Ph.D., Syracuse — geopolitics, Middle-East, critical cartography

Cynthia Gorman, Ph.D., Rutgers — gender, migration, legal regimes and international human rights campaigns

Jonathan Hall, Ph.D., Ohio State — human impacts on species abundance and persistence

Trevor Harris, Ph.D., Hull, England — GIS, GIS and society, geoarchaeology, environmental impact assessment, historical geography

Amy E. Hessl, Ph.D., Arizona — biogeography, forest ecosystems, dendrochronology

Insu Hong, Ph.D., Arizona State — Geographic Information Science (GISci) and spatial optimization

Randall Jackson, Ph.D., Illinois-Urbana — regional science and economic geography

Steven Kite, Ph.D., Wisconsin — geomorphology quaternary stratigraphy, glacial and fluvial geomorphology, geoarchaeology

Rich Landenberger, Ph.D., West Virginia University — forest ecology, land use, and conservation

Eungul Lee, Ph.D., Colorado — climatology, monsoon climates, biosphere and atmosphere interactions

Aaron Maxwell, Ph.D., West Virginia — geospatial education, spatial modeling, machine learning, image analysis

Brent McCusker, Ph.D., Michigan State — land use and livelihoods, vulnerability, Africa

Brenden McNeil, Ph.D., Syracuse — GIS, remote sensing, ecosystem ecology

Maria Perez, Ph.D., Michigan — speleology, national geographies, identities, Americas

Jamie Shinn, Ph.D., Pennsylvania State — political ecology, vulnerability studies, climate change adaptation, Africa

Timothy A. Warner, Ph.D., Purdue — remote sensing

Bradley Wilson, Ph.D., Rutgers — human geography, resource conflict, social movements

EMERITUS FACULTY:

Gregory Elmes, Ph.D., Pennsylvania State — Geographic Information Science, Spatial Analysis of Crime and Policing

Kenneth C. Martis, Ph.D., Michigan — electoral geography, legislative redistricting, voting behavior

Robert Hanham, Ph.D., Ohio State — development, labor studies, political economy and ecology, research methods

WISCONSIN

UNIVERSITY OF WISCONSIN - EAU CLAIRE

DEPARTMENT OF GEOGRAPHY AND ANTHROPOLOGY

DATE FOUNDED: 1947

DEGREES OFFERED: B.A., B.S.

GRANTED 9/16-5/17: 21 Bachelors

MAJORS: 145

CHAIR: Paul Kaldjian

DEPARTMENT ADMINISTRATIVE ASST: Yvonne Plomedahl

GEOSPATIAL TECHNOLOGY FACILITATOR: Martin Goettl

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Paul Kaldjian, Chair, Department of Geography and Anthropology, University of Wisconsin-Eau Claire, Eau Claire, Wisconsin 54702-4004. Telephone (715) 836-3244 Fax (715) 836-6027. E-mail: kaldjian@uwec.edu. Web: www.uwec.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES: The University of Wisconsin-Eau Claire is the largest undergraduate campus in the state with 10,900 students and 796 faculty and academic staff. The Department of Geography and Anthropology offers a geography liberal arts major, requiring a minimum of 36 credits in geography, three comprehensive geography majors (environmental, transnational, and geospatial analysis and technology), a geospatial certificate, and a geography minor. Geography majors are encouraged to earn credits through community internships, participate in field experiences, and to take advantage of opportunities for collaborative research with faculty. The department teaches anthropology courses and actively affiliates with a wide range of units and programs across campus, including Women's Studies, American Indian Studies, Latin American Studies, Hmong Studies, Sustainability, the Watershed Institute, and the Council for Internationalization and Global Engagement. Facilities include cartography, GIS, remote sensing, and spatial analysis labs equipped with 60 high-end desktop computers with double monitors. The department is fully networked and has a full suite of GIS and remote sensing hardware and software products. UWEC Blugold funding allows our majors and minors to do summer research projects with faculty, present research at regional and national meetings, and enables students to participate in field seminars and international study programs. The department's generous endowment (the Simpson fund) provides additional support for programming, professional development, research, high-impact practices and student engagement. The department has 145 majors, 15 minors, and graduates around 30 majors annually.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Contact the Office of Admissions for application forms and the Financial Aid Office for information on financial aid. Most geography majors are eligible for financial aid and work in the department's laboratories and with individual faculty members on research and special projects.

FULL AND PART-TIME FACULTY:

Ari Anand, Ph.D., Arizona, 2008, Associate Professor — cultural anthropology, language in culture and society, religion, social theory
Caitlin Curtis, Ph.D., University at Buffalo, 2017, Associate Lecturer — GIS, cultural heritage and critical heritage studies
Jeff DeGrave, Ph.D., University of Minnesota, Senior Lecturer — human, Latin America, Russia and Eastern Europe
Douglas Faulkner, Ph.D., Wisconsin, 1994, Professor — environmental, physical, geomorphology, fluvial
Sean Hartnett, Ph.D., Wisconsin, 1989, Professor — cartography, computer graphics, historical
Joseph Hupy, Ph.D., Michigan State, 2005, Associate Professor — physical, military geography, human-environment, UAS
Harry Jol, Ph.D., University of Calgary, 1993, Professor — geomorphology, physical, geoarchaeology, ground penetrating radar, coastal
Paul Kaldjian, Ph.D., Arizona, 2000, Professor — human, food, Middle East and North Africa
Garry Running, Ph.D., Wisconsin, 1997, Professor — geomorphology, soils, physical, environmental
Peter Strand, M.S., University of Wisconsin-Milwaukee, 2006, Lecturer — GIS
Daniel Strouthes, Ph.D., Yale, 1994, Assistant Professor — cultural anthropology, North American Indians, anthropology law
Ingolf Vogeler, Ph.D., Minnesota, 1972, Professor — rural, underdevelopment, United States, Third World
Ryan Weichelt, Ph.D., Nebraska, 2008, Associate Professor — human, quantitative methods, urban, economic, political, conservation
Cyril Wilson, Ph.D., Indiana State, 2011, Associate Professor — human-environment, agent-based modeling, geospatial hydrology, remote sensing, land use and land cover dynamics, GIS, LiDAR

Ezra Zeitler, Ph.D., Nebraska, 2008, Associate Professor — human, North America, Wisconsin, indigenous, race and ethnicity, tourism, geographic education, cartography

UNIVERSITY OF WISCONSIN-MADISON

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1928

GRADUATE PROGRAM FOUNDED: 1928

DEGREES OFFERED: B.A., B.S., M.S. (Geography, Cartography & Geographic Information Systems), Ph.D. (Geography), Capstone Certificate in GIS

GRANTED 09/01/2016 - 08/31/2017: 57 Bachelors, 9 Masters, 6 Ph.D.s, 23 Certificates

STUDENTS IN RESIDENCE: 138 Majors, 10 Masters, 50 Ph.D.s, 21 Certificates

NOT IN RESIDENCE: 156 M.S.-Cart/GIS (GIS Dev - Prof M.S.), 10 Ph.D.s

CHAIR: Prof. Joe Mason

DEPARTMENT ADMINISTRATOR: Jacqueline Wild

FOR FURTHER INFORMATION: Graduate Program Director, Department of Geography, 160 Science Hall, The University of Wisconsin, 550 N. Park St., Madison, Wisconsin 53706-1491. Telephone (608) 262-2138 (Department), (608) 262-3861 (Graduate Office). Fax (608) 265-3991 E-mail: gradschool@geography.wisc.edu Web: www.geography.wisc.edu/.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers a full range of baccalaureate and graduate degrees. At the graduate level, the Department offers Master's Degrees in geography and in cartography/GIS, the Ph.D. in geography and a one-year professional certificate degree in GIS. The research and teaching interests of the faculty cover all major areas of geographic study, including geographic thought and theory, historical, cultural, urban-economic, political, global and regional studies, political economy, cultural ecology, environmental history, conservation, soils, geomorphology, biogeography, climatology, water resources, cartography, geovisualization, remote sensing and geographic information systems. Our graduate degree programs are built around a relatively small amount of required coursework so as to allow students flexibility in designing programs that meet their particular interests. The department encourages interdisciplinary work. It plays an active role in the university's area study programs, such as African Studies, Asian Studies, Southeast Asian Studies, European Studies, Russian, East European and Central Asian Studies, and Ibero-American studies, as well as in interdisciplinary programs like Urban and Regional Planning and Landscape Architecture, Environmental Studies, Water Resources, International Studies, and an informal program in Quaternary Studies.

Located in historic Science Hall beside Lake Mendota on the beautiful University of Wisconsin-Madison campus, the Department of Geography offers an unusual variety of facilities for graduate study and research. Also, conveniently within the department we have the Geography Library which holds over 70,000 volumes and electronic resources and the Arthur H. Robinson Map Library. The Department is home to a large Cartographic Laboratory, the Wisconsin State Cartographer's Office, and maintains Soils and Geomorphology Laboratories and a wide variety of field equipment to support the program in physical geography. A fully equipped Computer Laboratory is available for student work in quantitative analyses, advanced graphics and geographic information systems. A Computer Instructional Facility provides a state of the art learning environment

for its courses in quantitative methods, cartography, and GIS. The multi-volume and award winning History of Cartography Project is also housed in Science Hall. A collegial atmosphere in which students work closely with faculty and peers is encouraged, yet, we simultaneously value the initiative of independent scholarship. An important part of departmental life occurs on Friday afternoons, when the entire department gathers to attend invited lectures delivered by visiting scholars, as well as by colleagues from within the department and the university. The Department also actively promotes the professional development of its students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Semester plan. The department offers both B.A. and B.S. degrees in geography, and in cartography and GIS. The geography degrees require a specialization in one of the following areas: physical, people-environment interaction, human, or cartography/GIS.

Graduate: Semester plan. The Master's programs require a minimum of 30 credits of coursework and the successful defense of a thesis, and are normally completed in four semesters. The Ph.D. program requires a minimum of 51 credits of coursework, the completion of a minor and certification of a research skill, such as statistics or a foreign language. Admission to the Master's degree program requires a bachelor's degree with a minimum undergraduate grade point average of 3.0, but applicants with less than 3.5 GPA should have particularly strong letters of recommendation and/or Graduate Record Exam scores. Applicants are expected to have a strong background in the social or physical sciences, or the humanities, but not necessarily in geography. Applicants to the Ph.D. program must have a Master's degree in geography or a related field. All application materials must be received no later than December 15th, to be considered for financial aid.

The **GIS Professional Programs** also offer online GIS Development and an in-residence Accelerated/ Non-thesis options to the Cartography and GIS Master's Degree. These programs require a minimum of 30-32 credits of coursework and do not require a thesis. These options are typically completed in 1-2 years. Admission to either professional program requires a bachelor's degree with a minimum undergraduate grade point average of 3.0. The GIS Development Option requires two prerequisite courses in GIS/Cartography. Both options require an introductory level course in statistics. No previous experience in geography is necessary. No GRE scores are required. Admission occurs in fall, spring, and summer (Development option only).

Certificate: Semester Plan. The GIS Professional Programs offer 2 GIS Certificates- the GIS Fundamentals Capstone Certificate and the Advanced GIS Capstone Certificate. The GIS Fundamentals Capstone Certificate program requires a set core curriculum of 12 credits- Introduction to GIS, Introduction to Cartography, and Introduction to Geocomputing. The Advanced GIS Capstone Certificate program requires curriculum choice of 12 advance elective credits. Admission to either certificate program requires a bachelor's degree with a minimum undergraduate grade point average of 3.0. No previous experience in geography is necessary. No GRE scores are required. Admission occurs on a rolling basis.

Financial aid: The majority of our graduate students are funded. In many cases, the department is able to offer long-term guarantees of financial assistance, usually five years for students who are starting with a Master's (2 years of funding) and planning on completing a Ph.D. (3 years of funding); and three years for those entering the Ph.D. program directly. The academic year stipend for a teaching assistant currently ranges from \$14,680 to \$18,350 (depending on level of appointment), plus benefits and remission of tuition. The Department also employs students as project assistants, who either assist staff members in their research or perform work in departmental

laboratories and offices. The academic year stipend for a Project Assistant currently ranges from \$14,680 to \$18,350 (depending on level of appointment) plus benefits and remission of tuition. University Fellowships are available through a competitive program administered by the Graduate School. The department nominates its best applicants for these awards, which includes stipend, benefits, and remission of tuition. Advanced Opportunity (Minority) Fellowships are also available. Students in the GIS Certificate and Online Professional Masters in GIS Development programs are not eligible for University funding.

FACULTY:

- Samer Alatout, Ph.D., Cornell, 2003, Associate Professor, Affiliate* — environmental change, social theories of power and government, Foucault, theories of border, biopolitics, environmental conflict (water resources and the politics of identity), Palestine/Israel and the US/Mexico
- Christian Andresen, Ph.D., Texas, 2014, Assistant Professor* — remote sensing and GIS applied to Arctic hydrology, ecology, geomorphology and biogeochemistry
- Anna Vemer Andrzejewski, Ph.D., Delaware, 2001, Professor, Affiliate* — American art, American material and visual culture, and North American vernacular architecture and landscape history
- Waltraud A.R. Brinkmann, Ph.D., Colorado, 1973, Professor, Emerita* — climatology, climate variations, Great Lakes, natural hazards
- Ian G. Baird, Ph.D., British Columbia, 2008, Associate Professor* — political ecology, upland peoples in mainland Southeast Asia, Lao Studies, human-environment relations, co-management of natural resources, development studies, post-colonial studies, social movements, social theory, identities, boundaries
- James E. Burt, Ph.D., UCLA, 1980, Professor, Emeritus* — climatology, quantitative methods, GIS
- Martin T. Cadwallader, Ph.D., UCLA, 1973, Professor, Emeritus* — urban, economic, quantitative analysis
- Eric C. Carson, Wisconsin, Associate Professor, Affiliate* — quaternary geology and fluvial geomorphology
- William Cronon, Ph.D., Oxford 1981, Yale 1990, Frederick Jackson Turner and Vilas Research Professor* — environmental history, environmental studies, North America (also History, Environmental Studies)
- William Denevan, Ph.D., UC-Berkeley, 1963, Carl O. Sauer Professor, Emeritus* — cultural ecology, historical, humid tropics, Latin America
- Samuel F. Dennis, Jr., Ph.D., Pennsylvania State University, 2000, Associate Professor, Affiliate* — landscape, health and well-being, social dimensions of environmental design at all scales, children, youth and families and the built environment, community design, planning and development, nature-based play and education
- Daniel F. Doepfers, Ph.D., Syracuse, 1972, Professor, Emeritus* — social change and social geography of Third World cities, historical, Southeast Asia, China
- Greg Downey, Ph.D., John Hopkins, Professor and Dean of College of Letters & Science, Affiliate* — history and geography of information/ communication technology and labor
- Song Gao, Ph.D., UC-Santa Barbara, 2017, Assistant Professor* — GIScience, place-based GIS, geospatial big data analytics, high-performance geo-computation, cartography and geovisualization
- Holly Gibbs, Ph.D., Wisconsin, 2008, Associate Professor* — land-use change, globalization, tropical deforestation, carbon emissions, bioenergy (also Environmental Studies)
- Qunying Huang, Ph.D., George Mason, 2011, Assistant Professor* — spatial high-performance/grid/cloud computing, cyberinfrastructure, big data mining, social media/networks, large-scale environmental modeling and simulation
- Robert Kaiser, Ph.D., Columbia, 1988, Professor* — political and cultural geography, power, place-making and identification practices, b/ordering space, de- and re-territorialization, East-Central Eurasia

Ken Keefover-Ring, Ph.D., Colorado, 2008, Assistant Professor — biogeography, chemical ecology, plant secondary chemical variation, plant-animal interactions, herbivory, pollination, volatile organic compounds, allelopathy, plant competition, analytical chemistry, terpenoids, phenylpropanoids (also Botany)

Jenna M. Loyd, Ph.D., UC-Berkeley, 2005, Assistant Professor — critical geography, public health, urban studies

Erika Marin-Spiotta, Ph.D., UC-Berkeley, 2006, Associate Professor — biogeochemistry, biogeography, land-use change, physical geography, people-environment

Joseph A. Mason, Ph.D., Wisconsin, 1995, Professor and Chair — soils, geomorphology, paleoenvironments

Sarah A. Moore, Ph.D., Kentucky, 2006, Associate Professor — urban geography, postcolonial studies and development, space and social theory

Phillip C. Muehrcke, Ph.D., Michigan, 1969, Professor, Emeritus — cartographic thought and communication, cartographic visualization

Lisa Naughton, Ph.D., Florida, 1996, Professor — wildlife ecology, political ecology, tropical agriculture, sub-Saharan Africa, Latin America

Kristopher N. Olds, Ph.D., University of Bristol, 1996, Professor — urban, economic, globalization, higher education, Pacific Rim

Robert C. Ostergren, Ph.D., Minnesota, 1976, Professor, Emeritus — cultural, historical, Europe, North America

Mutlu Ozdogan, Ph.D., Boston University, 2004, Associate Professor, Affiliate — land-use/land-cover conversion, climate change

Morgan Robertson, Ph.D., Wisconsin, 2004, Associate Professor — political ecology, U.S. water policy, environmental markets

Robert E. Roth, Ph.D., Pennsylvania State University, 2011, Associate Professor — cartography, geovisualization, and geovisual analytics

Robert D. Sack, Ph.D., Minnesota, 1970, Clarence J. Glacken and Bascom Professor, Emeritus — political, economic, spatial analysis, geographic thought

Annemarie Schneider, Ph.D., Boston University, 2005, Associate Professor, Affiliate — urbanization, land use change, global environment change, remote sensing and GIScience

Yi-Fu Tuan, Ph.D., UC-Berkeley, 1957, J.K. Wright and Vilas Professor, Emeritus — cultural, attitudes toward environment

Matthew Turner, Ph.D., UC-Berkeley, 1992, Professor — environmental change, cultural ecology, political economy, pastoralism, Africa

Thomas R. Vale, Ph.D., UC-Berkeley, 1973, Professor, Emeritus — biogeography, natural resources, landscape and landscape change, American West

David Ward, Ph.D., Wisconsin, 1963, Chancellor, Emeritus and Professor, Emeritus — historical, urban, social, North America and Europe

Jack Williams, Ph.D., Brown University, 1999, Professor — global environmental change, paleoclimate, climate-vegetation interaction, palynology (pollen analysis)

Keith Woodward, Ph.D., Arizona, 2007, Associate Professor — social theory, geographies of affect, social movements and social change

Stephen Young, Ph.D., Washington, 2010, Assistant Professor, Geography and International Studies — political-economy, development, globalization, South Asia (also International Studies)

A Xing Zhu, Ph.D., Toronto, 1994, Professor — GIS, machine learning, remote sensing, environmental modeling and natural resource management

UNIVERSITY OF WISCONSIN- MILWAUKEE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1956

GRADUATE PROGRAM FOUNDED: 1963

DEGREES OFFERED: B.A., B.S., M.A., M.S.,

Coordinated M.A./M.L.I.S. in Geography/Library and Information Science, Ph.D.

GRANTED 9/1/16-8/31/17: 12 Bachelors, 1 Masters, 4 Ph.D.

STUDENTS IN RESIDENCE: 70 Majors, 18 Minors, 11 GIS Minors, 22 GIS Certificates, 1 Masters, 18 Ph.D.

CHAIR: Mark D. Schwartz mds@uwm.edu

DEPARTMENT ADMINISTRATIVE ASSTS: Niko Papakis npapakis@uwm.edu

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chair, Graduate Administrative Committee, Department of Geography, University of Wisconsin-Milwaukee, P.O. Box 413, Milwaukee, Wisconsin 53201. Telephone (414) 229-4866. Fax (414) 229-3981. E-mail: bonsda@uwm.edu. Internet: www.geography.uwm.edu.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers bachelors, minors, certificates, masters, and doctoral programs of study across a range of systematic, regional, and technical fields, with innovative energy in the doctoral program for studying urban environments. The department's overall strengths are aligned along a theme of "Changing Environments", with three major axes, each responsive to areas with strong demand for new professionals:

Urban Environments: This area emphasizes the spatial interactions of economic systems as well as political, social, cultural, environmental, technological, and other forces that influence the people, identities, landscape, development, and dynamics of urban areas. With the world's population becoming increasingly urbanized and globalized, courses examine the continuing challenges of urban growth and change, race, ethnicity, and gender in the city, immigration and identity politics, and spatial aspects of urban planning processes and political decision-making.

Physical Geography and Environmental Studies: This area addresses the interactions among natural forms and processes on the earth's surface, the impact and implications of global climate change, and human connections with those natural phenomena. Courses discuss and analyze the distribution and processes of earth surface landforms (geomorphology), soils (pedology), plants and animals (biogeography), water (hydrology), and long-term atmospheric conditions (climatology). Overlapping emphases include phenology, water resources, conservation, natural hazards, natural resource scarcity, and the mounting challenges of global environmental change.

Geographic Information Science (GIS): This area emphasizes using geospatial technology to further understanding of spatial interactions among natural and social forces at multiple scales across the Earth's surface, and exploring the impacts of using such technology on social and cultural interactions. Courses examine geographic information collection (including remote sensing), data analysis and geocomputation (spatial analysis), information presentation (cartography), and societal implications. Our program emphasizes applications of GIS in urban, regional, and environmental planning, policy making, and public health.

Present teaching and research facilities associated with the Department include its large James John Flannery, Sr. Map

Collection, which is now a part of the AGS Library (see below); the Cartography and Geographic Information Science Center; and a Soils and Physical Geography Laboratory. PC computer facilities used by the Geography Department for instruction include Windows workstation labs. Software installed in these labs includes Geographic Information Systems, Remote Sensing, Mapping, Illustration, Photo Editing, Desktop Publishing, Statistical, Database Management, and Word Processing packages. Multiple university servers, other general access PC & MAC computer laboratories, and multimedia facilities are also available for student use. Other research resources at UWM available to the Geography Department staff and students include the School of Freshwater Science, the School of Public Health, the Center for Urban Initiatives and Research, the Center for Latin American and Caribbean Studies, the Center for International Education, the Center for Urban Transportation Studies, the Women's and Gender Studies Program, and University Information Technology Services. The University of Wisconsin-Milwaukee is also the home of the American Geographical Society Library. This multi-million dollar facility is housed in the Golda Meir Library. It contains about 450,000 maps, 200,000 volumes, 200,000 LANDSAT images, 160,000 photographs, 35,000 pamphlets, 7,600 atlases, 70 globes, digital maps and satellite imagery, and the AAG Archives.

ACADEMIC PLAN, ADMISSION REQUIREMENTS AND FINANCIAL AID: Entrance and general requirements for the *Undergraduate Program*: Students must meet with the department's undergraduate advisor to declare geography as a major. All majors must complete the 24-25 credit core curriculum and the additional requirements as defined in one of the 5 tracks: 1) geographic information, 2) urban, 3) environmental, 4) physical systems, or 5) globalization and development. Geography majors may earn either a Bachelor of Arts or Bachelor of Science degree. The physical systems Track is recommended for Bachelor of Science students. In satisfying their major requirements, all students must complete at least 37 credits in geography, 18 of which must be at or above the 300 level, with at least 15 of those taken in residence at UWM. Courses taken outside geography that fulfill geography requirements will be included in the GPA. Majors must have a 2.5 GPA in all geography credits attempted at UWM. In addition, students must attain a 2.5 GPA in all major credits attempted, including any transfer work.

Entrance and general requirements for the *Graduate Program*: A Bachelor's degree is required for admission to the Master's program; a Master's degree is usually required for admission to the Doctoral program. If previous training was not in geography, students may be required to complete courses to eliminate deficiencies. Applicants must have a minimum grade point average in all academic subjects of 2.75 (on a 4.0 scale) and acceptable scores on the Graduate Record Entrance Exam (G.R.E.). Three current letters of recommendation, preferably from academic referees, must be sent directly to the Geography Department or to the online application system. Specific course requirements for both the Master's and PhD can be obtained from the department. The minimum degree requirements for the Master's degree are 30 graduate credits with an average GPA of 3.0 and satisfactory completion of a master's thesis or non-thesis option. The minimum degree requirements for the PhD are 54 graduate credits beyond the bachelor's degree, at least 27 of which must be earned in residence with an average GPA of 3.0, and satisfactory completion of a doctoral dissertation.

Financial Aid for Graduate Students: The Department offers a limited number of Teaching Assistantships (50% appointment), Project Assistantships, and M.J. Read Graduate Fellowships. The TA and PA appointments carry a full tuition waiver. Teaching and Project Assistantships are awarded annually by the Department on a competitive basis, as are University Distinguished Graduate Student Fellowships, Distinguished Dissertation Fellowships, M.J. Read Fellowships, Non-Resident Tuition Remission Scholarships, and Advanced Opportunity Program (A.O.P.) Fellowships. Faculty members holding research grants also award Research and Project

Assistantships. Applications for all awards must be made annually. Forms and deadline information are available from the Geography Department. Master's candidates are usually limited to two years of departmental financial support. Students admitted to the Ph.D. program with Master's degrees are usually limited to four years of departmental support. The Cartography and GIS Center hires students on a part-time basis. Internships are also available in the AGS Library and at various agencies locally.

FACULTY:

- Kirsten Beyer, Ph.D., Iowa, 2009, Adjunct Assistant Professor* — health geography, socio-spatial epidemiology, community engaged research, disease mapping, health inequalities, women's health
- Anne Bonds, Ph.D., Washington, 2008, Associate Professor* — political economy, social theory, critical poverty studies, politics of economic development, urban and regional restructuring
- Woonsup Choi, Ph.D., Illinois-Urbana, 2005, Associate Professor* — hydroclimatology, human impacts on water resources, hydrological modeling
- Alison Donnelly, Ph.D., Trinity College, 1998, Associate Professor* — environmental indicators, climate change, plant and animal phenology, environmental assessment
- Glen Fredlund, Ph.D., Kansas, 1992, Associate Professor* — biogeography, soils, geomorphology
- Rina Ghose, Ph.D., Wisconsin-Milwaukee, 1998, Professor* — GIS, urban geography, public participation GIS, GIS and society, North America, South Asia
- Jonathan Hanes, Ph.D., Wisconsin-Milwaukee, 2011, Adjunct Assistant Professor* — bioclimatology, plant phenology, vegetation feedbacks to the lower atmosphere, fluxes of energy and mass in forest ecosystems, philosophy of science
- Ryan Holifield, Ph.D., Minnesota, 2007, Associate Professor* — environmental geography, environmental justice, science studies and social theory, North America
- Anna Mansson-McGinty, Ph.D., Lund, 2002, Associate Professor* — gendered geographies, geography of Islam, Scandinavia
- Linda McCarthy, Ph.D., Minnesota, 1997, Associate Professor* — urban and regional economic development/planning, globalization, North America, Europe
- Frederick Nelson, Ph.D., Michigan, 1982, Adjunct Professor* — permafrost, periglacial and climatic geomorphology, topoclimatology, spatial analysis, cryosphere, Arctic
- Mark D. Schwartz, Ph.D., Kansas, 1985, Distinguished Professor* — phenoclimatology, synoptic climatology, remote sensing, plant-climate interactions, climate change
- Kristin Szarto, Ph.D., Minnesota, 2007, Associate Professor* — social movements and spatiality, political geography, population geography
- Changshan Wu, Ph.D., Ohio State, 2003, Professor* — GIS, remote sensing, spatial analysis methods, urban, transportation
- Zengwang Xu, Ph.D., Texas A&M, 2007, Associate Professor* — GIS, spatial analysis and modeling, complex networks/systems
- Hyejin Yoon, Ph.D., Ohio State, 2008, Assistant Professor* — economic geography, urban geography, entrepreneurship, regional innovation systems, urban planning, urbanization

EMERITUS FACULTY:

- Michael Day, D. Phil., Oxford, 1978, Professor Emeritus*
- Ludwig Holzner, Dr. rer. nat., Wurzburg, 1964, Professor Emeritus*
- Judith Kemy, Ph.D., Syracuse, 1990, Associate Professor Emerita*
- Norman Stewart, Ph.D., UCLA, 1963, Associate Professor Emeritus*

UNIVERSITY OF WISCONSIN- OSHKOSH

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1928

DEGREES OFFERED: B.A., B.S.

GRANTED 9/1/16-8/31/17: 12 Bachelors

MAJORS: 25

CHAIR: Angela G. Subulwa

DEPARTMENT ADMINISTRATIVE ASST: Melissa Giddings

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chair, Department of Geography, University of Wisconsin-Oshkosh, 800 Algoma Blvd., Oshkosh, Wisconsin 54901-8642. Telephone (920) 424-4105. Fax (920) 424-0292. Internet: <https://geography.uwosh.edu/>.

PROGRAMS AND RESEARCH FACILITIES: The University of Wisconsin Oshkosh has an enrollment of 11,900 students with 580 Faculty and instructional staff located on the banks of the Fox River near Lake Winnebago in southeastern Wisconsin. The Department of Geography offers a Bachelor of Art and Bachelor of Science degree in geography as well as a minor in geography and a minor in Geography for education majors. The program also offers an undergraduate GIS certificate. The Geography program covers all of the major subfields of geography, with introductory and upper level courses in human and physical geography in addition to training in geographic techniques such as Geographic Information Science courses and cartography. Department facilities include a GIS laboratory with dedicated computers, printers, plotters, scanners, and digitizers. The GIS laboratory is fully networked and has a full suite of ESRI GIS software as well as ERDAS Imagine and other software. Students can earn a GIS certificate with the completion of 12 credits of GIS classes and an additional 3 credits of electives. The department also has well equipped spaces for physical geography lab science courses and additional laboratory facilities for faculty and student/faculty collaborative research that includes: a soils lab, an environmental analysis lab, a paleoecology lab, an integrated conservation research lab, and a human geography lab. Majors are required to take a minimum of 45 credit hours, 21 of which are required courses. The remaining 24 credits can be based on a student's interest within the department course offerings. Geography minors are required to take 22 credit hours.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: *Academic Plan:* Semester system. *Admission Requirements:* Director of Admissions, University of Wisconsin-Oshkosh, Oshkosh, Wisconsin 54901. (920) 424-0228. *Financial Aid:* The Financial Aid Office, University of Wisconsin-Oshkosh, Wisconsin 54901. (920) 424-4025.

FACULTY:

Heike C. Alberts, Ph.D., University of Minnesota, 2003, Professor — ethnic geography, population, cultural geography, Europe, Latin America

Elizabeth Barron, Ph.D. Rutgers University, 2010, Assistant Professor — nature-society geography, environmental governance and knowledge, science and technology studies, biogeography, North American resource management

Mark W. Bowen, Ph.D., University of Kansas, 2011, Associate Professor — soils and stratigraphy, water resources and wetland ecology, geomorphology, paleoclimate

Mamadou Y. S. Coulibaly, Ph.D., Southern Illinois University, 2006, Professor — Geographic information science, water resources

John A. Cross, Ph.D., University of Illinois, 1979, Professor — natural hazards, agriculture, United States and Canada

Angela G. Subulwa, Ph.D., University of Kansas, 2009, Associate Professor — refugees, cultural geography, geopolitics, development, Sub-Saharan Africa

Colin J. Long, Ph.D., University of Oregon, 2003, Professor — paleoecology, fire history, climate change

Kazimierz J. Zaniewski, Ph.D., University of Wisconsin-Milwaukee, 1987, Professor — cartography, population, ethnicity, Europe

UNIVERSITY OF WISCONSIN- RIVER FALLS

DEPARTMENT OF GEOGRAPHY AND GEOGRAPHIC INFORMATION SCIENCE

DATE FOUNDED: 1966

DEGREES OFFERED: B.A., B.S., B.A.S., GIS Certificate

GRANTED 9/6/17-5/20/18: 3 B.S., 2 B.A.S., 1 GIS

Certificate

MAJORS: 20

CHAIR: Charles Rader

DEPARTMENT ASSOCIATE: Kathryn Possehl

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chair, Department of Geography, University of Wisconsin-River Falls, 410 S. 3rd St., River Falls, Wisconsin 54022-5001. Telephone (715) 425-3264. Fax (715) 425-0611 E-mail: geography@uwrf.edu. Internet: www.uwrf.edu/geog.

PROGRAMS AND RESEARCH FACILITIES: The University of Wisconsin-River Falls is a campus of 6000 students located adjacent to the Minneapolis-St. Paul metropolitan area. The Department of Geography offers a major and minor in liberal arts, a minor in education, and a minor in GIS/Cartography. Majors require a minimum of 36 semester credit hours and minors, 21 semester credits. From a wide range of undergraduate courses students may emphasize physical geography, especially weather and climate, cultural/historical geography of North America, or cartography and geographic information systems (GIS). The physical geography program focuses applied coursework. The GIS/Cartography program is developed from eight cartography and GIS courses offered within the department, as well as from courses in general engineering, environmental science, computer information systems, and art. Advanced students often are employed through internships with local agencies and corporations. A GIS lab is supported by the department. This facility is fully integrated into the curriculum and received a major upgrade summer 2017. Equipment and software include 27 workstations, large and small format color printers, scanners Trimble and Garmin GPS units, ArcGIS, TerrSet, Q-GIS, Adobe Creative Cloud, MS Office, and SPSS.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Contact the Admissions Office for application materials and the Office of Financial Assistance for information on financial aid. Geography students may find work in the GIS Lab or with individual faculty.

FACULTY AND STAFF:

David Travis, Ph.D., Indiana University, 1994, Professor, Provost & Vice Chancellor for Academic Affairs — satellite meteorology, synoptic climatology, mesoscale climate change

Charles Rader, Ph.D., Michigan State, 1995, Professor — geographic information systems, cartography, people/environment

Mathew Dooley, Ph.D., University of Nebraska, 2006, Professor — cartography, geographic information systems, landscape analysis

John Heppen, Ph.D., Louisiana State University, 1998, Professor — political, historical and social geography; spatial analysis; United States

Matthew Millett, M.A., University of Oregon, 2010, Associate Lecturer — geographic information systems, human and physical geography

Geoffrey Force, M.A., University of Minnesota, 2002, Lecturer — climate; energy and environment; hazards, risks and disasters

UNIVERSITY OF WISCONSIN - WHITEWATER

DEPARTMENT OF GEOGRAPHY, GEOLOGY & ENVIRONMENTAL SCIENCE

DATE FOUNDED: 1963

DEGREES OFFERED: B.A., B.S., B.S.E.

GRANTED 6/1/16 - 5/31/17: 63 Bachelors

MAJORS: 47 Geography, 106 Environmental Science

CHAIR: Dr. Margo Kleinfeld

ACADEMIC DEPARTMENT ASSOCIATE: Susie Olson

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography and Geology, University of Wisconsin-Whitewater, 800 W. Main Street, 120 Upham Hall, Whitewater, Wisconsin 53190. Telephone (262) 472-1071. Fax (262) 472-5633. Internet: kleinfem@uwu.edu
Web: <http://www.uwu.edu/cls/geography-geology>.

PROGRAM AND RESEARCH FACILITIES: Undergraduate majors and minors are available to students through both the College of Letters and Sciences and the College of Education. Students majoring in geography can emphasize either Geography or Geology. In addition to minors in both geography, GIS, and geology, two interdisciplinary minors, Environmental Studies and Urban and Area Development, are also housed and administered in the department. The department houses and administers an interdisciplinary Environmental Science major that relies on many courses in physical geography, geology, GIS, and resource management.

The department offers outstanding computing facilities for student and faculty use. There are two dedicated computer labs for teaching introduction to mapping, introductory and advanced GIS, remote sensing, and applied GIS courses. Forty-six computer workstations are available in these labs, with each containing the full array of ESRI products, Adobe Illustrator, and ERDAS Imagine. The department houses a GIS Center providing services for local and state agencies and non-profit organizations. A technical/research lab is used primarily for climate and remote sensing data analysis. The department maintains the campus weather station and provides access to real time data that is utilized by television stations in Madison and Milwaukee. Other lab spaces are available for physical geography and geology. Besides introductory physical geography and geology teaching labs, the department has advanced teaching and research labs, including a soils and geomorphology analysis lab with XRD and XRF facilities, and two geology laboratories (hard rock and soft rock).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Applications are available from: Admissions Office, UW-Whitewater, Whitewater, WI 53190. On line application at: <http://www.apply.wisconsin.edu>. Contact Financial Aid Office for routine financial aid opportunities. The department administers the unique and large Warren and Rose Fischer Scholarship program for Education majors minoring in Geography. This scholarship program assists students who meet the appropriate education and geography criteria. The Fischer Scholarship is renewable each semester as long as students remain in good academic standing and until the appropriate degree is conferred. The Folkerth Scholarship is also available to recognize an outstanding geography major committed to and effective at promoting geography and

working with other students and faculty. Some students are paid as research assistants on faculty research grants. Paid and for credit internships with public agencies and private firms are available to geography majors as well. In addition, the department has a substantial Work Study allocation to provide paid work opportunities for eligible students.

FACULTY:

Prajukti Bhattacharyya, PhD, Minnesota, 2000, Professor — Mineralogy, Structural Geology, Environmental Geology

Jonathan Burkham, PhD, UW Milwaukee, 2012, Associate Professor — Latin America, Migration, Labor Market

Rocio Duchesne-Onoro, PhD, Montclair State University, 2015, Assistant Professor — Remote Sensing, GIS, Biogeography

Eric Compas, PhD, UW-Madison, 2008, Associate Professor — Political Ecology, Environmental Geography, Private Land Conservation

John Frye, PhD, University of Georgia, 2011, Associate Professor — Climatology, Meteorology

Rex Hanger, PhD, Berkeley, 1992, Professor — Paleontology, Stratigraphy, Sedimentology, Oceanography

Peter Jacobs, PhD, UW-Madison, 1994, Professor — Geomorphology, Soils

Margo Kleinfeld, PhD, Kentucky, 2005, Associate Professor & Chair — Political, Human/Cultural, Feminist and Social Theory, South Asia

Stephan Levas, PhD, Ohio State, 2012, Assistant Professor — Aquatic Ecosystems, Marine

Jeff Olson, PhD, Ohio State, 2013, Assistant Professor — Economic, Land Change, GIS

Andrea Romero, PhD, Kansas, 2013, Assistant Professor — Ecology, Evolutionary Biology, Mammal Communities

Dale Splinter, PhD, Oklahoma State, 2006, Professor — Geomorphology, Rivers, Stream Ecology

Jeffery Zimmerman, PhD, UW-Madison, 2003, Associate Professor — Urban Geography, Cultural Geography, Planning and Social Theory

ACADEMIC STAFF:

Jean Kowal, ABD, UW-Milwaukee, Lecturer — Physical Geography, Environmental, Global Issues

WYOMING

UNIVERSITY OF WYOMING

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1966

GRADUATE PROGRAM FOUNDED: 1966

DEGREES OFFERED: B.A., B.S., M.A., M.P.

GRANTED MAY 2018: 12 Bachelors, 3 Masters

STUDENTS IN RESIDENCE: 66 Majors, 20 Masters

NOT IN RESIDENCE: 5 Masters

CHAIR: William J. Gribb

DEPARTMENT ADMINISTRATIVE ASST: Ms. Jama Palmer

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Geography, Dept. 3371, 1000 E. University Ave., University of Wyoming, Laramie, Wyoming 82071. Telephone (307) 766-3311. E-mail: geographydept@uwyo.edu. Internet: www.uwyo.edu/geography

PROGRAMS AND RESEARCH FACILITIES: M.A. program in geography emphasizes human; physical; geographic information

systems; and environment and resource management, with a particular focus on the Great Plains/Rocky Mountain region. A specialized M.A. program with a focus on Water Resources is also offered. M.P. program in planning emphasizes rural and small town planning and environmental planning. Curricula are individually tailored, but include at least two skills from among the following: quantitative or qualitative methods, field techniques, remote sensing, and geographic information systems. The Department is connected with the Wyoming Geographic Information Sciences Center (WyGISC); the director of WyGISC holds a faculty appointment in the Department of Geography. The Department is also affiliated with three other research facilities, the Wyoming Center for Environmental Hydrology and Geophysics (WyCHEG), the Roy J. Shlemon Center for Quaternary Studies, and the Ruckelshaus Institute. Internships are available for all facets of the Department.

Physical Geography: Centers on biogeography, climatology (particularly in climate variability), geomorphology, process geomorphology including hydrology, and landscape ecology—especially pertaining to the Rocky Mountain area. Laboratory facilities both within the department and across campus provide opportunities for training in advanced techniques. Courses in allied disciplines are encouraged.

Spatial Analysis, Information, and Display: Offers training in field techniques, mapping, GIS, GPS, remote sensing, web-based mapping and drone technologies. Courses in allied disciplines are encouraged.

Natural Resource Management: Provides training in resource management in such areas as land use planning, wildlife management, water resources, and the impact of development on environmental values. Courses in geography and related fields provide an interdisciplinary framework.

Human Geography: Examines spatial and historical context of human systems, processes, behavior, cultural landscapes and forms of geographic organization. Courses in allied disciplines are encouraged.

Planning: Offers training in small town/rural areas, natural resources, land use and environmental planning leading to the Master in Planning degree. Interdisciplinary in content, it involves various colleges and departments and prepares individuals as community, or environmental planning directors in rural and mountain states. The Department also accepts qualified applicants in biogeography or related ecology areas for the University's Ph.D. Program in Ecology. In addition, the Department accepts qualified applicants interested in hydrology and water resources for the University's Ph.D. Program in Water Resources.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: *Academic Plan-* M.A., M.P. Plan A, with Thesis or Plan B, with two professional papers.

Graduate Admission Requirements: Undergraduate G.P.A. minimum-3.0, GRE Score minimum-Combined 300, three letters of reference, completion of departmental questionnaire (on-line).

Financial Aid: Full-time masters' level Graduate Assistantships, pay \$12,078 plus remission of tuition and fees. Graduate assistantships include both teaching and research assistantships. Applicants for the Ph.D. in Ecology or Water Resources should meet the same standards as for the masters' program and hold a masters' degree. The Ph.D. assistantship stipend for a full-time doctoral student is \$16,785 plus tuition and fees remission.

FACULTY:

Shannon Albeke, Ph.D., University of Georgia, 2010, Joint Wyoming Geographic Information Science Center/Geography, Associate Research Scientist — spatial ecological data processing and analysis

Drew Bennet, Ph.D., Oregon State University, 2015, Haub School of Environment and Natural Resources, Adjunct Whitney MacMillan Professor of Practice of Private Lands Stewardship — human-environment interaction, private lands, American West, and ecosystem services

Yi Ling Chen, Ph.D., Rutgers University, 2000, Joint Global and Area Studies/Geography, Associate Professor — neoliberalism, housing policies, and gender

Nicholas E. Crane, Ph.D., The Ohio State University, 2014, Assistant Professor — political economy of cities, social movements, collective memory, youth culture and young people's politics, the Americas, qualitative methodology and research design

William J. Gribb, Ph.D., Michigan State, 1982, Professor and Chair — land resource planning, rural community planning, cultural ecology, computer cartography/GIS

Jeffrey C. Hamerlinck, Ph.D., University of Colorado - Boulder, 2010, Joint Wyoming Geographic Information Sciences Center/Geography, Research Scientist and Director — geographic information science, spatial decisions support systems, land resource planning

Paddington Hodza, Ph.D., West Virginia University, 2007, Joint Wyoming Geographic Information Science Center/Geography, Associate Research Scientist — appreciative GIS, geovisualization, social spatial media, and geo-spatial web applications

Carl J. Legleiter, Ph.D., University of California Santa Barbara, 2008, Adjunct Associate Professor — geomorphology, remote sensing, water resources

Thomas Minckley, Ph.D., University of Oregon, 2003, Associate Professor — conservation and natural resources, biogeography, and paleoecology

Zoe Pearson, Ph.D., The Ohio State University, 2016, Global and Areas Studies, Adjunct Assistant Professor — feminist geography, political ecology, Latin America

Jacqueline J. Shinker, Ph.D., University of Oregon, 2003, Associate Professor — climatology, climate change and variability, drought, water resources and paleoclimatology

Gerald R. Webster, Ph.D., University of Kentucky, 1984, Professor — political, urban, human geography, and planning

Chen Xu, Ph.D., Texas A&M, 2010, Assistant Professor — volunteered geographic information, big geospatial data analytics, social media, and GISc

John L. Allen, Ph.D., Clark, 1969, Professor Emeritus — historical, history of geography, environmental studies, landscape change, American West

William L. Baker, Ph.D., Wisconsin-Madison, 1987, Professor Emeritus — biogeography, landscape ecology, natural resources, conservation, remote sensing, GIS

Ronald Beiswenger, Ph.D., Michigan, 1972, Professor Emeritus — natural resource conservation, geographic education, biogeography

Thomas Buchanan, Ph.D., Illinois, 1979, Professor Emeritus — quantitative methods, research design, social behavior, natural resource management

Deborah D. Paulson, Ph.D., Hawaii, 1992, Professor Emeritus — human ecology, land use and management, international development, sustainable agriculture

CANADA

ALBERTA

UNIVERSITY OF ALBERTA

DEPARTMENT OF EARTH AND ATMOSPHERIC SCIENCES

DEGREES OFFERED: B.Sc., B.A., M.Sc., M.A., Ph.D.
GRANTED 7/1/2017-6/30/2018: 102 B.Sc., 35 B.A., 21 Masters, 15 Ph.D.

STUDENTS IN RESIDENCE: 381 Majors (Science and Arts), 80 Masters, 74 Ph.D.

NOT IN RESIDENCE: 3 Masters, 2 Ph.D.

CHAIR: Stephen T. Johnston

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Earth and Atmospheric Sciences, University of Alberta, Edmonton, Alberta, Canada T6G 2E3. Telephone 780-492-3265. Fax 780-492-8190. <http://www.ualberta.ca/eas> E-Mail EAS.Inquiries@ualberta.ca

PROGRAMS AND RESEARCH FACILITIES: Individual graduate programs vary with the interests and training of the candidate. Minimum course requirements comprise three single-term courses for M.Sc./M.A. candidates who have completed four-year baccalaureate degrees, and six single-term courses beyond the baccalaureate degree for Ph.D. candidates. A thesis is required of all graduate students. There are no formal foreign language requirements. A one year course-based MSc program in Integrated Petroleum Geoscience is a joint program between the Departments of Earth and Atmospheric Sciences and Physics. Course requirements are 8 core courses and 4 optional courses. A one-year or two-year course-based MSc program in Urban and Regional Planning is offered

The Department houses laboratories, computing systems and field equipment to support research in various disciplines including Geomorphology, Sedimentology, Geochemistry, Petrology, Climatology, Biogeography, GIS and Remote Sensing. Analytical equipment and facilities relevant to these fields include scanning electron microscope, electron microprobe, powder x-ray diffraction, ion chromatographs, mass spectrometers for stable and radiogenic isotopic analyses, Quadrupole ICP-MS, MC-ICP-MS, an x-ray sedigraph, an extensive thin section preparation facility, a micro-FTIR and continuum infrared microscope, and extensive research collections. Two Class 100 clean laboratories and several cold rooms are available. There is also a full range of field equipment including ground and ice penetrating radar systems, GPS and Total Station surveying systems, ice coring drill, borehole inclinometer, field portable gamma spectrometer and fluorometer, numerous dataloggers and sensors for measurement of microclimatic, meteorological, hydrological and hydrochemical data, and vibracoring/percussion systems for lake sediment coring. Available Unix and PC-based computing systems provide PCI and Envi image processing software, ARC-INFO and IDRISI GIS, ERADAS, as well as specialized modeling software to support the multi-disciplines. The department also houses the Earth Observation Systems Laboratory (EOSL), and the Centre for Earth Observation Science (CEOS) which brings together scientists from Computing Science, Engineering and Earth and Atmospheric Sciences, as well as the Community, Health and Environment Research Centre (CHE). Facilities for scanning, digitizing, color printing and photogrammetry are available.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: There are two regular semesters: September-December and January-April. Special Sessions courses are offered in the period May-August.

The Department offers undergraduate courses leading to the B.Sc. and B.A. degrees, with a choice of General, Specialization and Honors programs. B.Sc. programs are offered in Atmospheric Sciences, Environmental Earth Sciences, Geology, Paleontology and Urban Planning. A B.A. program is offered in Human Geography and Urban Planning (Major/Minor only). For additional information, see our website at <http://www.ualberta.ca/eas>; E-Mail – EAS.Inquiries@ualberta.ca

A Science Internship Program enables students to combine 8 to 16 months of work experience in related fields with their academic training

Graduate Program: A baccalaureate degree with a strong undergraduate academic record, letters of reference and approval of the Department. Application by February 15 is advised if financial assistance from the department is required. For additional information, see our website at <http://www.ualberta.ca/eas>; E-Mail – EAS.Inquiries@ualberta.ca

FACULTY:

A detailed list of faculty and graduate students and their research interests is available on our Web page at <http://www.ualberta.ca/eas>

UNIVERSITY OF CALGARY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1961

GRADUATE PROGRAM FOUNDED: 1961

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., MGIS, Ph.D.

GRANTED 1/1/16-12/31/16: 92 Bachelors, 20 Masters, 4 Ph.D.

STUDENTS IN RESIDENCE (2016): 355 Majors, 56 Masters, 27 Ph.D.

HEAD: Dr. David Goldblum

GRADUATE PROGRAM ADMINISTRATOR: Paulina Medori

FOR DETAILED INFORMATION EMAIL: geograd@ucalgary.ca or check website at <http://www.geog.ucalgary.ca/>.

CURRENT ADDRESS: Graduate Program, Department of Geography, University of Calgary, ES 356, 2500 University Dr NW, Calgary, AB, Canada T2N 1N4. Telephone (403) 220-4838. Fax (403) 282-6561. E-mail: geograd@ucalgary.ca.

PROGRAMS AND RESEARCH FACILITIES: Programs of undergraduate study include Geography, Urban Studies and Earth Science. Programs of graduate study are offered in most fields of Geography at the masters and doctoral levels (course work and thesis required). A course based Masters in GIS (MGIS) is also available. Calgary provides an excellent location and staging area for many forms of Geographical research and for issues related to human-environment interactions. The Department is a leader in developing technical expertise to apply to these and many other issues. Faculty members conduct research in the fields of geomorphology, biogeography, climatology, glaciology and cryospheric studies, hydrology, soils, environmental studies, tourism, urban and economic studies, remote sensing, computer cartography, GIS, transportation, medical, health, human, social and historical geography. Research

focuses primarily on Western Canada, The Arctic, the Americas and Europe. State-of-the-art research, teaching, computing and analytical facilities and software exist within three 24-seat computing labs, and are enhanced by three full-time technicians. Field equipment and support also is available, and the University Weather Research Station is accessible for faculty and student research. Field stations are used through cooperation with the Kananaskis Centre for Environmental Research, and field education is available for all levels of students for course and research work. Geography participates actively in the work of the Van Horne Institute for International Transportation & Regulatory Affairs, the World Tourism Education and Research Centre, the Institute for Advanced Policy Research, the Interdisciplinary Graduate Program, Earth Sciences, Environmental Science and Urban Studies programs.

FACULTY: A detailed list of faculty and graduate students and their research interests is available on our Web page at:
<http://www.geog.ualgary.ca>

BRITISH COLUMBIA

SIMON FRASER UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1965

GRADUATE PROGRAM FOUNDED: 1965

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.

GRANTED 9/1/16-8/31/17: 93 Bachelors, 9 Masters, 4 Ph.D.

STUDENTS IN RESIDENCE (9/1/17-04/30/18): 441

Majors, 7 M.A., 19 M.Sc., 32 Ph.D.

CHAIR: Tracy Brennand

DEPARTMENT ADMINISTRATIVE ASSISTANT: Anke Baker

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department Chair, Department of Geography, 8888 University Drive, Burnaby, BC, Canada, V5A 1S6. Telephone (778) 782-3718. Fax (778) 782-5841. E-Mail: geog.info@sfu.ca
 Internet: <http://www.sfu.ca/geography/>

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography is a founding department of the Faculty of Environment.

Undergraduate Program: Undergraduate students at Simon Fraser University may specialize in one of three broad realms: Human Geography, Physical Geography, and Spatial & Geographic Information Science. For students with primary interests in **Human Geography**, the department offers a BA, with emphases on social, urban, and economic themes. Additionally, students may enroll in a cross-disciplinary Certificate in Urban Studies.

Three concentrations in the **Physical Geography** BSc are available: (1) *Biogeophysical Science* exposes students to a broad range of environmental science courses that address geomorphology, climatology, hydrology, soils, and biogeography; (2) *Geoscience* is similarly broad-ranging but specifically targets the academic requirements needed to apply for registration as a Professional Geoscientist; (3) *Physical Geography and Spatial Information Science* gives students the opportunity to focus on the linkages between Earth System Science and Spatial Information Systems. **Spatial & Geographic Information Science** at Simon Fraser encompasses remote sensing, cartography, GIScience, spatial data analysis, and geovisualization. All students include SIS coursework within their BA

or BSc degrees (see above) and may supplement their chosen degree with a Certificate in Spatial Information Science. Also available is an independent BSc in Geographic Information Science, offered in cooperation with the School of Computing Science. For more information on the undergraduate program, please see: <http://www.sfu.ca/geography/undergraduate-programs.html>.

Graduate Program: The Department of Geography at SFU has a tradition of research excellence in a diversity of disciplines, spanning human geography, earth system dynamics, and spatial and geographic information science. The majority of graduate research is conducted in western North America, although research further afield is not uncommon. Facilities for advanced work include well-equipped soils, geomorphology, biogeography, climatology, GIS and human geography laboratories.

M.A., M.Sc. and Ph.D. programs: The department has six broad research foci: The City, Geographical Political Economies, Global Environmental Change, Water Science, Spatial Information Theory and Spatial Health. Faculty from across the department contribute to each of these areas of interest, and thesis work in the program generally engages one or more of these research foci. Graduate research is particularly encouraged in the following areas: landscape ecology, climate science, geomorphology, and soil science; geographic/spatial information science, and geovisualization and remote sensing; health geography, political geography, urban geography, economic geography, cultural geography, social theory, political economy, and tourism.

For information on these specializations, faculty members, and detailed information concerning all aspects of the graduate program, please visit the [departmental website](#), and/or contact the Department.

GRADUATE ADMISSIONS REQUIREMENTS AND

FINANCIAL AID: *Admission Requirements:* Generally, admission to the Graduate Program is in the Fall semester, and applications should be complete by January 15 of the admission year. **Masters candidates** should have an undergraduate grade point average of 3.25. Candidates for the Mastersdegree are expected to complete the degree (30 credit hours) in six terms. Requirements include a thesis (18 credit hours) and 12 credit hours of required and elective courses. M.A. applicants are expected to show or acquire competence in a range of the social theory and methodological approaches informing contemporary human geography. M.Sc. applicants normally hold a B.Sc. degree or equivalent in geography, environmental or earth science or a related discipline.

The Ph.D. program has no required courses; any coursework is determined in consultation with the supervisor. Admission to pursue the doctoral degree is granted only when the department has evidence of the candidate's ability to work at the most advanced level and produce a satisfactory dissertation. Prospective students should contact individual faculty members in advance of applying for admission.

Financial aid: Graduate students are typically funded through a combination of Research Assistantships, Teaching Assistantships, and/or internal and external scholarships. Limited funds are also available to support student travel.

FACULTY:

Shivanand Balram, Ph.D., McGill, 2005, Senior Lecturer — spatial information science, quantitative geography, spatial decision support

Nicholas Blomley, Ph.D., Bristol, 1986, Professor — law, property, the city

Tracy Brennand, Ph.D., Alberta, 1993, Professor & Chair — glacial geomorphology and sedimentology, paleogeology, paleohydrology, quaternary environmental change

Alex Clapp, Ph.D., UC-Berkeley, 1993, Professor — economic geography, resource conservation, forest policy

Rosemary Collard, Ph.D., UBC, 2014, Assistant Professor — political ecology, feminist political economy, capitalism, wildlife management, biodiversity loss

Valorie Crooks, Ph.D., McMaster, 2005, Professor — medical/social geography, health care, disability and chronic illness

Suzana Dragicevic, Ph.D., Montreal, 1999, Professor — GIS, spatial analysis and modeling, geosimulation, complex systems

Nick Hedley, Ph.D., Washington, 2003, Associate Professor — geovisualization, GIS, cartography, augmented reality, geospatial interface and virtual environments

Meg Holden, Ph.D., New School for Social Research, NY, 2004, Associate Professor — urban environmental and pragmatic philosophy, urban sustainable development, social learning, public policy

Paul Kingsbury, Ph.D., Kentucky, 2003, Professor — cultural geography, psychoanalysis, social theory, paranormal cultures

Jason Leach, Ph.D., University of British Columbia, 2014, Assistant Professor — hydrology, water quality, fluvial science

Lance Lesack, Ph.D., UC-Santa Barbara, 1988, Professor — ecosystem biogeochemistry, land and water interactions, limnology

Geoff Mann, Ph.D., UC-Berkeley, 2003, Professor — political economy, capitalism, macroeconomic policy, politics of climate change

Eugene McCann, Ph.D., Kentucky, 1998, Professor — urban politics and policy, cultural politics and local economic development

Andrew Perkins, Ph.D., Simon Fraser University, 2015, Lecturer — hazards, geochronology, paleogeology

John Pierce, Ph.D., London School of Economics, 1976, Professor — economic and rural geography, research methodology

Margaret Schmidt, Ph.D., British Columbia, 1992, Associate Professor — soil science, forest soils, digital and predictive soil mapping, spatial patterns of soil properties

Nadine Schuurman, Ph.D., British Columbia, 2000, Professor — GIS, health geography, spatial data, ontologies, metadata, critical GIScience

Jeremy Venditti, Ph.D., British Columbia, 2003, Professor; Director of the Environmental Science Program — fluvial geomorphology and sedimentology, landscape dynamics, morphodynamic modeling of river sediment

Kirsten Zickfeld, Ph.D., Potsdam, 2004, Associate Professor — climate change science, climate projections, climate-carbon cycle feedbacks, carbon budget, earth system modeling

Ivor Winton, Ph.D., Minnesota, 1987, Senior Lecturer — population, history of geographical thinking

LIMITED TERM LECTURERS:

John Irwin, PhD, British Columbia, 2004 — Sustainable development and resource planning, economic and transportation geography

Andrés Varhola, PhD, British Columbia, 2013 — forest management, remote sensing, hydrology

Tara Holland, PhD, Guelph, 2014 — science education, climate change adaption

ASSOCIATE MEMBERS:

Martin Andresen, Ph.D., UBC, 2006, Professor (School of Criminology) — applied spatial statistics, spatial crime analysis, regional trade patterns

Yildiz Atasoy, Ph.D., University of Toronto, 1998, Professor (Department of Sociology & Anthropology) — global political economy, political sociology, state restructuring, social change and development, political economy of agrifood systems, neo-liberal urbanism

Clint Burnham, Ph.D., York University, Associate Professor (Department of English)

Jeff Derksen, Ph.D., University of Calgary, 2000, Associate Professor (Department of English)

Peter Hall, Ph.D., UC-Berkeley, 2002, Professor (Urban Studies Program) — port cities, logistics, employment, community development, urban economies

Kirsten McAllister, Ph.D., Carleton University, 1999, Associate Professor (School of Communication)

Kendra Strauss, D.Phil., University of Oxford, 2008, Assistant Professor (Department of Sociology & Anthropology) — labour geography, economic geography, feminist political economy, social reproduction, legal geography, pensions

Joseph E. Taylor III, Ph.D., University of Washington, 1996, Professor (Department of History) — environmental history of fisheries, recreation, gentrification, outdoor sports, and public lands

ADJUNCT FACULTY:

Stuart C. Aitken, Ph.D., Western Ontario, 1985 — children and youth, families and communities, qualitative methods, critical theory, critical GIS, urban, film and media

Michael Eby, B.A.Sc., University of British Columbia, 1985 — climate modelling, carbon cycle feedbacks, climate change longevity

Nathan Gillet, D. Phil., Oxford, 2002 — climate change modelling and attribution

Michael Goodchild, Ph.D., McMaster, 1965 — geographic information science and systems

Andy Jonas, Ph.D., The Ohio State University, 1989 — urban political geography, regionalism, labour geography, scale

Ray Kostashuk, Ph.D., McMaster, 1984 — fluvial hydrology, geomorphology

Meg Krawchuk, Ph.D., Alberta, 2007 — landscape ecology, pyrogeography, biogeography, conservation science

Victoria Lawson, Ph.D., Ohio State University, 1986 — relational poverty studies, feminist geography

Olav Lian, Ph.D., Western Ontario, 1997 — quaternary sedimentology and stratigraphy, glacial geology, geomorphology and geochronology

Nicholas Menzies, Ph.D., University of California, Berkeley, 1988 — Forest resources management in China, community-based resources management, environmental history, history of botany in China

Christiana Miewald, Ph.D., University of Kentucky, 2000 — food security, urban agriculture, gender and sexuality, gentrification

Byron Miller, Ph.D., Minnesota, 1995 — space and social movements, urban politics, urban governance and governmentality, politics of urban and regional sustainability, socio-spatial polarization

Lenore Newman, Ph.D., York University, 2004 — food security, sustainable cities, culinary geography, nature/culture interface

Ronan Paddison, Ph.D., University of Aberdeen, 1969 — urban democratic processes, making of inclusive public spaces

Janet Sturgeon, Ph.D., Yale, 2000 — human geography of contemporary Asia

Mary Thomas, Ph.D., Minnesota, 2002 — feminist and urban geography, girlhood studies, incarceration

Kevin Ward, Ph.D., University of Manchester, 1998 — economic development, policy mobilities, urban and regional policy economy

EMERITI FACULTY:

Robert C. Brown, Ph.D., Michigan State, 1967 — fisheries geography, resources development

Len Evenden, Ph.D., Edinburgh, 1970 — urban, local government

Alison Gill, Ph.D., Manitoba, 1982, Professor — coastal tourism, resort development, secondary homes, tourism in mountain communities

Roger Hayter, Ph.D., Washington, 1973 — BC's forest economy, environmental economic, geography of the evolutionary firm

Edward Hicken, Ph.D., Sydney, 1971 — fluvial geomorphology and sedimentology

Thomas Poiker, Ph.D., Heidelberg, 1966 — economic, quantitative, computer cartography, GIS

Michael Roberts, Ph.D., Iowa, 1966 — fluvial geomorphology, field methods

Arthur Roberts, Ph.D., York, 1982 — remote sensing, photogrammetry, cultural, historical, paleoenvironments

Shue Tuck Wong, Ph.D., Chicago, 1968 — resources management, quantitative methods

RETIRED FACULTY:

Robert Horsfall, Ph.D., Johns Hopkins, 1969 — social geography, environmental psychology

Ian Hutchinson, Ph.D., Simon Fraser, 1977 — quaternary environments, coastal systems

P.M. Koroscil, Ph.D., Michigan, 1970 — historical, Canada

Janet Sturgeon, Ph.D., Yale, 2000 — human geography of contemporary Asia

UNIVERSITY OF BRITISH COLUMBIA

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1923

GRADUATE PROGRAM FOUNDED: 1947

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.

GRANTED 9/1/17-8/31/18: 147 Bachelors, 11 Masters, 15 Ph.D.

STUDENTS: 27 Minors, 600 Majors, 30 Masters, 70 Ph.D.

HEAD: Marwan Hassan

DEPARTMENT ADMINISTRATIVE ASST: Connie Cheung

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Graduate Advisor, Department of Geography, 1984 West Mall, University of British Columbia, Vancouver, British Columbia, Canada V6T 1Z2. Telephone (604) 822-2663. Fax (604) 822-6150.

E-mail: connie.cheung@geog.ubc.ca (Administrative Enquiries); gradprog@geog.ubc.ca (Graduate Enquiries). Web: www.geog.ubc.ca.

PROGRAMS AND RESEARCH FACILITIES:

M.A., M.Sc., Ph.D. Programs: The UBC Department of Geography offers three undergraduate programs; two BA programs (Human Geography and Environment and Sustainability) and one BSc program (Geographical Sciences). We also offer a Minor and an Honours option under the Human Geography program, and Minor in Urban Studies.

1. The Environment and Sustainability program offers an integrated understanding of physical, ecological, economic, socio-cultural and political systems, as they shape the world and influence life. Finally, Geographical Sciences, also known as Physical Geography, is fundamentally concerned with the interactions between the Earth's biosphere and its atmosphere, hydrosphere, and geosphere. The program emphasizes the environmental consequences of global change and field-based research.

2. Programs in Geographical Sciences have a strong natural science emphasis. They focus on physical and ecological systems at or close to the earth's surface, and the interaction of these systems with people. The specialization options include: Biogeography (forest and plant ecology; Arctic environments); Climatology (air pollution; meteorology; mesoscale modeling; urban climatology, climate change, biogeochemistry); GIS and remote sensing; Geomorphology (landscape evolution, watershed geomorphology; hillslope geomorphology and mass movements; fluvial sediment transport, fluvial geomorphology and river ecology); Hydrology (surface water, snow hydrology; water quality, energy and mass balance).

3. The Human Geography program concentrates on four main areas of study: Cultures and Places, Cities and Globalization, Nature and Society, and Research and Methods, across the geographic regions of Canada, East and Southeast Asia, the Middle East, Europe, Africa and Latin America. It explores the connections between human geography and political economy, social theory, cultural studies, and pursue the implications for interpreting changes in past and present landscapes. Major areas of specialization are: Economic Geography (Marxist and post-Marxist theories of the space-economy; analytical modelling; development theory; industrial restructuring and technological change); Feminist Geography (gender, sexuality and geography); Historical Geography (environmental history, colonialism and imperialism, urbanization, with a particular focus on North America (especially Canada), Europe, Latin America, East and Southeast Asia and Australasia); Social and Cultural Geography (international migration; popular culture and the geography of everyday life; ethnicity-race, class, and gender; consumption, place, and landscape). Work in these fields often feeds into a strong general interest in Urban Geography (urban systems, urban growth and restructuring, social and economic change, with a particular focus on North America and Asia) and intersects with work in Environmental Geography (environmental sustainability, environmental policy, water use and management, political ecology, community development). Programs in *Regional Geography* focus upon the following areas: Canada (especially Western Canada); Asia and the Pacific Rim (especially East and Southeast Asia); Russia and Eastern Europe; and Latin America (especially Mexico).

The Department participates actively in many interdisciplinary programs: Asian Studies, Community and Regional Planning, Geomorphology (including fluvial, glacial, and coastal), Comparative Literature, Hydrology, International Relations, Remote Sensing, Geographic Information Sciences, Resource Management Science, Sustainable Development, Urban Studies, and Women's Studies. Field studies include ongoing projects in the Western Arctic and Cordilleran regions of Canada and special projects in Latin America and Asia.

A guide to graduate studies in Geography is available at this website: <http://www.geog.ubc.ca/graduate/>

Other Facilities - In department: extensive map and air photo holdings of B.C.; geomorphological, biogeographical, and climatological laboratories; modern computer network and GIS laboratories; office space for graduate students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: *Academic Plan* - Academic year, September 1 - August 31. Terms: September 1 - December 31, January 1 - April 30, and May 1 - August 31.

Admission Requirements - The Honours program required an average of 72%. Graduate applicants must meet the requirements as outlined at: <http://www.geog.ubc.ca/graduate/prospective-students/how-to-apply/>. Applicants from related fields will be considered.

Financial Aid - Scholarships: UBC Graduate Support Initiatives are available for superior students and all applicants are automatically considered for these scholarships. The University of British Columbia also provides some Four Year Doctoral Fellowships (4YF). Under this program, UBC ensures its best students are provided with financial support of at least \$22,000 per year for the first four years of their PhD studies and the first two years of their Master degree studies.

NSERC, SSHRC, and CIHR scholarships are tenable at UBC. Students should consult these organizations' web-sites for application procedures. Teaching assistantships with competitive stipends are available from September to April.

FACULTY:

- Karen J. Bakker, Ph.D., Oxford, 1999, Professor, Canada Research Chair — environmental, development, water*
- Trevor J. Barnes F.R.S. C.; Ph.D., Minnesota, 1983, Professor and Distinguished University Scholar — economic, urban, history of geography*
- Luke R. Bergmann, Ph.D., Minnesota, 2012, Associate Professor — geographical informational science, economic geography, nature-society relations, globalization, China*
- Loch T. Brown, Ph.D., Sussex, 2007, Senior Instructor — development, collective action, associational dynamics, political ecology, West Africa*
- Michelle D. Daigle, Ph.D., Washington, 2015 — indigenous geographies of dispossession, resistance and resurgence, Indigenous feminism, settler colonialism, Indigenous water governance, food sovereignty*
- Jessica A. Dempsey, Ph.D. British Columbia, 2011, Assistant Professor — political ecology, economic geography, feminist science studies, and increasingly, green finance*
- Simon D. Donner, Ph.D., Wisconsin, 2002, Associate Professor — climatology, biogeochemistry, hydrology, aquatic ecology, climate policy*
- Brett C. Eaton, Ph.D., British Columbia, 2004, Associate Professor — fluvial geomorphology, sediment transport, aquatic habitat, impacts of hydropower generation*
- Matthew D. Evenden, Ph.D., York, 2000, Professor — environmental history, historical, water and Canada*
- James F. Glassman, Ph.D., Minnesota, 1999, Professor — development, third world urbanization, economic, political, Southeast Asia*
- Derek J. Gregory, F.B.A.; F.R.S.C.; Ph.D., Cambridge, 1981, Peter Wall Distinguished Professor — political and cultural geographies of late modern war, especially in the Middle East and Afghanistan-Pakistan; histories/geographies of bombing*
- Marwan Hassan, Ph.D., Jerusalem, 1989, Professor and Head — fluvial geomorphology, ecogeomorphology, landscape evolution, water resources*
- Greg H. R. Henry, Ph.D., Toronto, 1987, Professor — plant ecology, tundra ecosystems, biogeography*
- Sally A. Hermansen, M.A., Queens, 1984, Professor of Teaching — cartography, geographic information science, remote sensing*
- Nina Hewitt, Ph.D., York, 1999, Instructor — ecosystem fragmentation, alpine ecosystems, forest ecology, biography*
- Dan J. Hiebert, Ph.D., Toronto, 1987, Professor — urban, immigration, Canada*
- Sarah Hunt, Simon Fraser, 2014, Assistant Professor — legal geography and critical Indigenous studies of law, justice, violence, resistance in neocolonial relations*
- Hun K. Kim, Ph.D. UC Berkeley, 2015, Assistant Professor — Global South urbanism, economic geography, development, governance and reform, finance, policy and expertise, qualitative methods, East and Southeast Asia*
- Brian Klinkenberg, Ph.D., Western Ontario, 1988, Professor — geographic information science, biodiversity informatics, medical biogeography*
- Michele Koppes, Ph.D., Washington, 2007, Associate Professor — Quaternary geomorphology, glaciology, paleoclimate reconstruction, alpine and polar regions*
- Merje Kuus, Ph.D., Syracuse, 1999, Professor — political, geopolitics, policy, contemporary Europe*
- Philippe A. Le Billon, Ph.D., Oxford, 1999, Professor — war, disasters, development, political geography, Africa and Southeast Asia*
- Ian G. McKendry, Ph.D., Canterbury, 1985, Professor — air pollution meteorology, aerosol science, synoptic climatology*
- Siobhán R. McPhee, PhD, Dublin, 2012, Instructor — labour geography, migration, workplace inequalities, emerging global cities, Ireland, Middle East*

- R. Dan Moore, Ph.D., Canterbury, 1984, Professor — forest hydrology, hydroclimatology, snow and glacier hydrology, riparian processes, physical water quality*
- Jamie A. Peck, AcSS, Ph.D., Manchester, 1988, Professor and Canada Research Chair in Urban and Regional Political Economy — economic geography; urban and regional restructuring; labor studies; government policy and statecraft; economic regulation and governance*
- Geraldine J. Pratt, Ph.D., British Columbia, 1984, Professor — feminist geography; Filipino transnationalism; geographies of film, performance*
- Juanita R. Sundberg, Ph.D., Texas, 1999, Associate Professor — feminist geography; politics of conservation; Latin America; United States-Mexico border*
- Jennifer L. Williams, Ph.D., Montana, 2008, Assistant Professor — biogeography, population ecology, climate change and plant population dynamics, spread of populations through heterogeneous landscapes*
- Elvin K. Wylie, Ph.D., Minnesota, 1995, Professor — urban; social policy; quantitative methods; housing*

EMERITI FACULTY:

- Michael J. Bovis, Ph.D., Colorado, 1974, Associate Professor Emeritus — geomorphology, landslides*
- Michael A. Church, F.R.S.C.; Ph.D., British Columbia, 1969, Professor Emeritus — geomorphology*
- Richard Copley, M.A., UC Berkeley, 1961, Senior Instructor Emeritus — cultural/historical, East Asia*
- Ken G. Denike, Ph.D., Pennsylvania, 1973, Assistant Professor Emeritus — urban, quantitative methods, transportation*
- David W.C. Edgington, Ph.D., Monash, 1986, Professor — economic, urban economic, Japan, Asia Pacific*
- R. Cole Harris, O.C.; F.R.S.C.; Ph.D., Wisconsin, 1964, Professor Emeritus — historical, Canada*
- David F. Ley, F.R.S.C.; Ph.D., Pennsylvania State, 1972, Professor, Canada Research Chair — immigration, gentrification, housing markets, urban social geography*
- David M. McClung, Ph.D., Washington, 1974, Professor Emeritus — snow and avalanche science and engineering*
- Terry G. McGee, Ph.D., Wellington (New Zealand), 1969, Professor Emeritus — Third World cities, East and Southeast Asia*
- Margaret E. A. North, M.A., Kansas, 1961, Senior Instructor Emerita — plant geography*
- Robert N. North, Ph.D., British Columbia, 1968, Associate Professor Emeritus — economic development, former USSR and its successor nations*
- Tim R. Oke, O.C.; F.R.S.C.; Ph.D., McMaster, 1967, Professor Emeritus — climatology (urban and micro)*
- Alfred H. Siemens, Ph.D., Wisconsin, 1964, Professor Emeritus — cultural, Latin America*
- H. Olav Slaymaker, Ph.D., Cambridge, 1968, Professor Emeritus — geomorphology/hydrology, mountain environments*
- John K. Stager, Ph.D., Edinburgh, 1962, Professor Emeritus — Canadian Arctic*
- Graeme C. Wynn, F.R.S.C.; Ph.D., Toronto, 1974, Professor — historical, environmental, Canada, New Zealand*

UNIVERSITY OF NORTHERN BRITISH COLUMBIA

GEOGRAPHY PROGRAM

DATE FOUNDED: September 1994

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.

GRANTED 9/1/16 – 8/31/17: 3 Bachelors, 2 Masters

STUDENTS IN RESIDENCE: 12 Masters, 7 Ph.D.

CHAIR: Catherine Nolin

DEPARTMENT ADMINISTRATIVE ASST: Michelle Keen

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chair, Geography Program, UNBC, 3333 University Way, Prince George, BC, Canada, V2N 4Z9. Telephone (250) 960-5832. Fax (250) 960-6533. E-mail: catherine.nolin@unbc.ca. Internet: <http://www.unbc.ca/geography/>.

PROGRAMS AND RESEARCH FACILITIES: Geography offers undergraduate degrees (BA, BSc), minors in physical geography, human geography, geomorphology and GIS, and graduate degrees (MA, MSc, MNRES, PhD) in Natural Resources and Environmental Studies (NRES - GEOG). We emphasize an interdisciplinary academic approach with foci on cold environments, the Canadian and circumpolar North, First Nations/indigenous issues, community development in rural and remote places, health geography and international studies. An active co-operative education program enables further practical experience for students, while Geography offers overseas and local field schools. UNBC has complete wet and dry lab facilities, GIS lab, High Performance Computing lab, and a state-of-the-art Social Sciences lab on campus; off-campus facilities include a River Research Center and two Research Forests. Please visit website for more information on facilities and equipment, as well as on faculty research and graduate opportunities.

ACADEMIC PLAN AND ADMISSION REQUIREMENTS: Information on admission requirements and application forms for admission are available from the Registrar. Program information can be obtained from the Chair.

FACULTY:

Gail Fondahl, Ph.D., Berkeley, 1989, Professor — local criteria and indicators of sustainable forest co-management; indigenous land rights and land claims in Russian North; Arctic social indicators; community-based research

Greg Halseth, Ph.D., Queen's, 1993, Professor and Canada Research Chair in Rural and Small Town Studies — community development/community economic development; restructuring in resource dependent towns; rural and regional development

Neil Hanlon, Ph.D., Queen's, 1998, Professor — health service delivery in rural and remote locations; social determinants of health in rural and remote BC; impacts of distributed medical education programs on their host communities; social and geographical determinants of health

Christine Jackson, B.Ed., 1995, Western Ontario, B.Sc., UBC, 1987, Senior Lab Instructor Earth Sciences — enhancing student experiences in environmental education, physical environment

Zoë Meletis, Ph.D., Duke, 2008, Associate Professor — tourism development, amenity migration, and aesthetics; development and change in Down East, North Carolina; ecotourism in Tortuguero, Costa Rica; participant perceptions of community gardening

Brian Menounos, Ph.D., UBC, 2002, Professor — past and present glacier fluctuations; paleo-environmental reconstruction; sediment budgeting and sediment transport in mountain environments

Catherine Nolin, Ph.D., Queen's, 2000, Associate Professor — qualitative methods; social geography of migration in rural and remote British Columbia; social impacts of Canadian mining in Guatemala; impunity, 'development', and political violence in Guatemala

Ellen Petticrew, Ph.D., McGill, 1989, Professor — landscape scale linkages between terrestrial and aquatic systems; bio geomorphology: influence of organisms on physical attributes of aquatic systems; landscape disturbances on sediment transfers (fire, forest harvesting, agriculture); ecological implications of transfers and storage of fine sediment in rivers and lakes; fine sediment morphology and composition (flocculation processes); lake restoration and community stewardship

Roger Wheate, Ph.D., St. Andrews, 1996, Associate Professor — cartographic design incorporating remote sensing and GIS processing; glacier mapping from remote sensing in northern BC

ASSOCIATED FACULTY AT UNBC:

Ping Bai, M.Sc., Windsor, 1996, Senior Lab Instructor GIS — computer science; GIS; problem solving and modeling in forest, geography, social science; software development in graphic user interface design; web development

Scott Emmons, B.Sc., UNBC, 1998, Senior Lab Instructor, GIS — Technologies emerging in geomatics to provide a network of spatially linked data sharing nodes connecting communities in Northern British Columbia

Peter Jackson, Ph.D., UBC, 1993, Professor — analytical and numerical wind-field modeling; meso- and synoptic scale meteorology; air pollution

ADJUNCT FACULTY:

Matthew Beedle, Ph.D., UNBC, 2013 — glaciology; climatology; remote sensing; science communication

Sarah de Leeuw, Ph.D., Queen's, 2007 — indigenous health; cultural geography; post-colonialism

Sean Markey, Ph.D., SFU, 2003 — sustainable community development; resource communities; social economy; regional development; rural development

Marleen Morris, M.Sc., Oxford, 2009 — public administration; community development; social policy

John Rex, Ph.D., UNBC, 2009 — Pacific salmon ecology; sediment flocculation; nutrient cycling

Grahame Russell — human rights and political violence in Guatemala and Honduras

UNIVERSITY OF THE FRASER VALLEY

DEPARTMENT OF GEOGRAPHY and the ENVIRONMENT

DATE FOUNDED: 1992

DEGREES OFFERED: B.A., Geography; B.Sc., Physical Geography

BA GRANTED 5/1/16-4/30/17: 23 Majors, 4 Extended Minors, 9 Minors, 1 Honours

BSc GRANTED 5/1/16-4/30/17: 5 Majors, 1 Minor, 1 Honours

STUDENTS IN RESIDENCE BA: 62 Majors, 12 Extended Minors, 22 Minors, 1 Honours

STUDENTS IN RESIDENCE BSc: 19 Majors, 6 Minors,

HEAD: Steven Marsh

DEPARTMENTAL ADMINISTRATIVE ASSISTANT: Leah Sperling

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Steven Marsh, Head, Department of Geography and the Environment,
University of the Fraser Valley, 33844 King Rd., Abbotsford, British
Columbia, V2S 7M8, Canada. Telephone (604) 504-7441, Ext. 4723.
Fax (604) 504-3619. E-mail: steven.marsh@ufv.ca
Internet: www.ufv.ca/geography/.

PROGRAMS: UFV Geography and the Environment (GATE) believes students learn best in applied as well as classroom settings, and integrates field study, laboratory experience, geomatics, and regional study into its programs. The department offers a major, Honours major, extended minor, and minor in Geography (BA) and a major, Honours major, and minor Physical Geography (BSc). Students can also complete a certificate in GIS. The department is also home to a BA degree in Global Development Studies. Co-operative Education, Work Study and Research Assistantships options are available. Faculty and students conduct research and study in Canada and internationally. Faculty run 5-6 day field schools (*Adventures in Geography*) in Western Canada and the Pacific Northwest, as well as 2-3 week study tours in the western US, India, and Mexico. Internship students also complete course and funded and unfunded placements in India, Tanzania, China, and Canada.

The BA major program encompasses a broad range of subjects that characterize the modern discipline of Geography. The first two years of the program provides an introduction to human, physical, regional, and technical geography. The latter two years allow for greater specialization in one of these sub-fields. BA students usually pursue a concentration in *Environmental Science, Global Studies, and/or Urban Studies and Planning*, and concentrations can be completed as part of an Honours degree. Field trips, community-based research, and lab science are emphasized. Directed studies and directed readings options are available.

The BSc major program focuses on four key sub-fields of Physical Geography: biogeography/ soils, climatology and hydrology, geomorphology, and water quality, in addition to technical geography courses in GIS, remote sensing, and modeling. Students engage in laboratory and field-based data collection, and many pursue additional research experience in one of the department's research facilities.

Interdisciplinary programs: Geography faculty are involved in research and degree initiatives in Agriculture and Food Security, Borderlands Studies (with Western Washington University), GIS, Global Development, Environmental Studies, Indigenous Studies, Indo-Canadian Studies, Migration and Citizenship, Peace Studies, Science Communications, and the Global Rivers Observatory with Woods Hole Oceanographic Institution.

RESEARCH FACILITIES: The UFV Department of Geography and the Environment is home to the Luminescence Dating Lab, the Paleocology Lab, and Watershed Research Lab. A GIS and Food Security studies lab is planned. The Department maintains a comprehensive classroom-oriented mineral, map and aerial photo collection, a student computer lab, full capacity GIS software and hardware, current meters, surveying and GPS equipment, water quality testing probes, and weather monitoring and soils analysis instruments.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Three terms: Fall (Sept-Dec); Winter (Jan-Apr), and condensed and full-term courses in Summer (May-Aug) term. Courses offered at multiple campuses: Abbotsford, Chilliwack, and Mission, BC, and in Chandigarh, India. Degree: 120 credits, minimum 2.0 CGPA; Honours: 120 credits, minimum 3.33 CGPA. Requirements for entry into the BA and BSc programs vary. Financial assistance, including loans, bursaries, scholarships, and work-study, is available. Information on financial aid and criteria for program entry are found in the UFV calendar, available at: www.ufv.ca/home.htm.

FACULTY:

Carolyn Atkins, MSc., Saskatchewan, 1994, Lab Instructor — Physical Geography
John Belec, Ph.D., Queens, 1988, Associate Professor — Urban Studies, Housing Studies, Canada, Borderlands
Cherie Enns, Ph.D. Candidate, Darmstadt University (Germany), Associate Professor — New Urbanism, Community and Sustainable Development, Children and the City, History of Planning
Garry Fehr, Ph.D., Guelph, 2007, Associate Professor — International Development, Political Ecology, Social/ Cultural Geography
Claire Hay, M.Sc., Alberta, 1998, Associate Professor — Geomorphology, Regional Geography, Geographic Techniques
Jonathan Hughes, Ph.D., Simon Fraser, 2002, Associate Professor — Biogeography, Paleocology, Dendrochronology, Paleoseismology
Olav B. Lian, Ph.D., Western Ontario, 1997, Associate Professor — Quaternary Sedimentology, Stratigraphy, Paleoenvironments, Geochronology, Paleocology of Non-glacial Intervals, Paraglacial Sedimentation, Loess-Paleosol Sequences, Holocene Aeolian Activity
Steve Marsh, M.Sc., Regina, 1988, Associate Professor — Climate Change, Water Quality, Environmental Studies
Kathy Peet, BSc, University of Northern British Columbia, 1997, Lab Instructor — Physical Geography
Michelle J. Rhodes, Ph.D., Simon Fraser, 2002, Associate Professor — Resource/ Economic Geography, Geopolitics, Housing Studies, Tourism, Environmental Studies
Scott Shupe, Ph.D., Arizona, 2000, Associate Professor — Geographic Information Science (GIS, Remote Sensing), Land Use/ Land Cover Mapping and Monitoring, Natural Resources, Arid Lands

EMERITUS FACULTY:

David Gibson, M.A., University of California-Davis, 1969, University College Professor Emeritus — Cultural Geography, Mexico

CANADA RESEARCH CHAIR (TIER II):

Lenore Newman, Ph.D., York, 2004, CRC in Food Security and Environment — Canada's Food Cultures/ Systems, Agriculture Lands Conservation, Food and the City, Sustainable Food Systems

LIMITED TERM FACULTY:

Mariano Mapilli, Ph.D., British Columbia, 1997 — Resource Management and Environmental Studies
Terah Sportel, Ph.D., Guelph, 2013 — International Development, Political Ecology, Labour Geography, Agrarian Change, Sustainable Livelihoods

ADJUNCT FACULTY:

Alex Awiti, Ph.D. Nairobi, 2006 — Ecosystems Ecology
John Clague, Ph.D., British Columbia, 1973 — Natural Hazards, Quaternary Geology
Lionel Pandolfo, Ph.D., Yale, 1992 — Synoptic Climatology, Climate Variability, Modeling
Bernhard Puecker-Ehrenbrink, Ph.D., Max Planck Institute (Germany), 1994 — Global Rivers Project (WHOI), Geochemistry
Tatu Mtwambi Limbumba, Ph.D., KTH, Stockholm, 2010 — Built Environment, Infrastructure & Planning
Dan Selbie, Ph.D., Queen's, 2008 — Fisheries (salmon) and Aquatic Ecology, Paleolimnology

POST-DOCTORAL FELLOWS:

Christina Neudorf, Ph.D., Wollongong (Australia), 2012, Hakai Scholar — Luminescence Dating, Geochronology
Lisa Powell, Ph.D., University of Texas-Austin, 2013 — Agricultural land conservation, resource communities

UNIVERSITY OF VICTORIA

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1949

GRADUATE PROGRAM FOUNDED: 1966

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.

GRANTED 9/1/17-4/1/18: 163 Bachelors, 9 M.Sc., 3 M.A., 8 Ph.D.

STUDENTS IN RESIDENCE: 605 Majors, 21 Masters, 23 Ph.D.

NOT IN RESIDENCE: 19 Masters, 31 Ph.D.

CHAIR: Johannes Feddema

DEPARTMENT ADMINISTRATIVE OFFICER: John Fowler

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chair, Department of Geography, University of Victoria, PO Box 1700, Victoria, British Columbia, Canada V8W 2Y2. Telephone (250) 721-7327, Fax (250) 721-6216. Email: geoginfo@uvic.ca. World Wide Web: <http://www.uvic.ca/socialsciences/geography/>

PROGRAMS AND RESEARCH FACILITIES: UVic Geography faculty members conduct research all over the world, from understanding climate impacts on water resources, and conserving critical species and their habitats, to empowering the “binners” in Victoria, BC and Sao Paulo, Brazil through community-engaged research. All faculty members have vibrant, active research programs with varied socially and scientifically relevant foci, including: climate change impacts and adaptations; coastal zone; community-based research; geomatics; geomorphology and quaternary science; health and society; climate change and hydro-climatology; international development; landscape ecology, biogeography, and spatial ecology; marine aquaculture; protected areas planning and management; and Arctic sea ice variability.

Our research facilities are comprised as follows: Physical Geography labs include Climate Change and Weather, Coastal Dynamics, and the University of Victoria Tree Ring Lab. Applied Conservation Science, Coastal and Ocean Resources Analysis, Landscape and Wildlife Ecology, Marine Protected Areas Research Group, Water, Innovation and Global Governance, and Whale Research laboratories support the resource conservation branch of the department. The Community-based Research Laboratory and Critical Geographies Research Group support a number of Human Geography programs. Spatial sciences are supported through several GIS, spatial analysis, and visualization laboratories, and Hyperspectral-LiDAR, sea ice, and ocean remote sensing laboratories. Large funded projects housed in our department include Population Data BC, Population Health, and PPV Bolivia. In addition, the Environment Canada Water and Climate Impacts Research Centre (W-CIRC) is co-located with Geography, and focuses on hydrologic and ecological impacts of atmospheric change and variability. More details on specific research programs and researchers can be found on the web site (<http://www.uvic.ca/socialsciences/geography/research/index.php>).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: At the University of Victoria there are two regular semesters: September-December and January-April. ‘Summer Session’ comprises the period May-August.

The Geography Department offers undergraduate courses leading to B.A. and B.Sc. degrees, with a choice of General, Major, and Honours programs for both. For the Major and Honours degrees, students may choose concentrations in five core areas: Coastal Studies, Earth Systems, Geomatics, Environment and Sustainability, and Urban & Development Studies. These core areas of study reflect the teaching

and research strengths of our Faculty members. Students from the general university community who may wish to augment their primary degree with a more concentrated area of geographical study can take a Minor in Coastal Studies and Geographic Information Technology. The minor is ideal for students majoring in Anthropology, Biology, Earth and Ocean Sciences, Economics, and History. The Department of Geography, in conjunction with the School of Earth and Ocean Sciences, also offers a Combined B.Sc. Major or Honours Degree aimed at students whose interests span the fields of Physical Geography and Earth Sciences. These degrees are intended to prepare students for a professional designation. Also, in conjunction with the Department of Computer Science, the Department of Geography offers a combined B.Sc. Major Degree for students who are interested in the fields of Computer Science, Geography, and Geomatics. The program intends to offer students a broad and comprehensive foundation in a number of key areas including cartography, geographic information sciences, remote sensing, surveying, statistics, and fundamentals of programming, algorithms, database systems, computer graphics, and computer geometry. There are also Geography Co-operative Education and Work Experience programs that enable students to combine work experience in related fields with their academic training.

Further information regarding undergraduate admission requirements may be obtained from the University’s website at: <http://www.uvic.ca/>. In addition to scholarships, financial information on loans, grants or bursaries is available through the University’s website. The Geography department’s main website can be viewed at: <http://geography.uvic.ca/>.

Graduate: The Department of Geography at the University of Victoria offers M.A., M.Sc., and Ph.D. degrees. A B.A. or B.Sc. degree from a recognized university, or its equivalent, with a ‘B+’ average (75% or upper 2nd class) for the last 2 years is generally considered a minimum requirement for admission. Graduate degree programs at UVic Geography are research-oriented (i.e., thesis based). Course-based degrees are not offered. Applicants are strongly encouraged to contact potential supervisors via email or phone to discuss research interests and potential opportunities. Faculty research interests are listed on the departmental website. Students whose native language is not English are required to provide English language proficiency test scores (TOEFL > 90 or IELTS > 6.5) to demonstrate language competency proficient to proceed with graduate studies. International students should not make provision to travel to Canada until they have been admitted officially by the Faculty of Graduate Studies and have evidence of financial resources to allow them to pursue their studies. The required residency for a Master’s degree is 2 academic years and 3 years for a Ph.D. degree. Program entry is usually September for the Winter Session (divided into two terms: September-December, and January-April). Students may also enter the program in January or May.

The Department offers University of Victoria Fellowships of up to \$15,000 (M.A., M.Sc., Ph.D.) for a 12-month period to students of high academic standing who are registered full-time. Most students are offered funding from a variety of sources, including: Scholarships, Fellowships, Entrance Awards, Research Assistantships, and Teaching Assistantships. Typically, academic supervisors cover research expenses from their research grants. In many cases, students also work closely with supervisors to secure additional external funding. The Department hosts scholars across the tri-council of major Canadian funding agencies (NSERC, SSHRC, CIHR) and scholarships may be awarded on application to high-calibre Canadian citizens or permanent residents. More information on admissions, tuition, awards, and other requirements is available online from the Faculty of Graduate Studies (<https://www.uvic.ca/graduatestudies/>). Further details on the Geography Graduate School program at UVic are available at: <http://www.uvic.ca/socialsciences/geography/graduate/index.php>.

FACULTY:

David Atkinson, Ph.D., Ottawa, 2000, Associate Professor — storms and coastal zones, weather extremes, icefield meteorology, weather/human interactions, Arctic

Chris Bone, Ph.D., Simon Fraser, 2011, Assistant Professor — GIS, spatial analysis, complex systems modeling and artificial intelligence

Rosaline Canessa, Ph.D., Victoria, 1997, Associate Professor — coastal management, marine protected areas, GIS decision support, geovisualization

Denise Cloutier, Ph.D., Guelph, 2000, Professor — healthy aging, integrated models of service delivery for older adults, vulnerable populations, long-term care service trajectories

Maycira Costa, Ph.D., Victoria, 2000, Professor — remote sensing, primary productivity, coastal waters, benthic habitats, wetlands

Christopher Darimont, Ph.D., Victoria, 2007, Associate Professor — conservation ethics, ecosystem-based harvest management, Indigenous geographies, marine-terrestrial interactions, wildlife ecology

Teresa Dawson, M.A., Oxford, 1992, Teaching Professor — human geography, geographic education, feminist geography, experiential learning

Philip Dearden, Ph.D., Victoria, 1978, Professor — protected areas, conservation, marine, Southeast Asia

David Duffus, Ph.D., Victoria, 1988, Associate Professor — conservation, wildlife, marine

Shannon Fargey, Ph.D., Manitoba, 2014, Assistant Teaching Professor — climate, mountain meteorology, hydrology, spatial analysis

Johannes Feddema, Ph.D., Delaware, 1991, Professor — human systems in Earth System models, water balance climatology, urban climatology

Mark S. Flaherty, Ph.D., McMaster, 1985, Professor — small-holder aquaculture, food security, poverty alleviation in developing nations

Jutta Gutberlet, Ph.D., Tübingen, 1990, Professor — development geography, waste studies, global/local waste governance, sustainable livelihoods, ecological and social economy, participatory action research (PAR), global South

Michael Hayes, Ph.D., McMaster, 1989, Professor — social geographies of health from a life-course perspective, health inequities and urban structure, social gradients in health outcomes, disability and public policy

Dennis E. Jelinski, Ph.D., Simon Fraser, 1990, Professor — landscape ecology, biogeography, wildlife ecology, conservation, terrestrial-marine interactions

Eva Kwoil, Ph.D., Bremen, 2013, Assistant Professor — coastal geomorphology, turbulence, flow structures

Michele-Lee Moore, Ph.D., Wilfrid Laurier, 2011, Associate Professor — global/local water governance, river basin management, social-ecological resilience, social innovation; transnational networks

K. Olaf Niemann, Ph.D., Alberta, 1988, Professor — remote sensing, geomorphology

Ian J. O'Connell, Ph.D., Victoria, 2003, Teaching Professor — geomatics

Aleck Ostry, Ph.D., British Columbia, 1998, Professor — health geography, social determinants of health, geography of food security and nutrition, Aboriginal people's health

Cameron Owens, Ph.D., Simon Fraser, 2011, Associate Teaching Professor — social theory and politics in relation to urban and regional development, land use planning, and environmental assessment

Terry Prowse, Ph.D., Canterbury, 1981, Professor — cold regions hydrology, impacts of climate change on water resources, hydro-ecology of river systems, hydro-climatology

CindyAnn Rose-Redwood, Ph.D., Penn State, 2007, Assistant Teaching Professor — urban social geography, immigrant geographies, geographies of higher education, international student experiences

Reuben Rose-Redwood, Ph.D., Penn State, 2006, Associate Professor — urban historical geography, cultural landscape studies, politics of mapping, geographies of higher education, history of geographical thought

Randall Scharien, Ph.D., Calgary, 2010, Assistant Professor — Arctic sea ice variability and climate change, remote sensing with synthetic aperture radar, radar polarimetry

Dan J. Smith, Ph.D., Alberta, 1985, Professor — geomorphology; dendrochronology

ONTARIO

BROCK UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND TOURISM STUDIES

DATE FOUNDED: 1964

DEGREES OFFERED: B.A., B.Sc., M.A.

GRANTED 9/1/17-6/30/18: 69 Bachelors

MAJORS: 132 (Geography); 77 (Tourism)

CHAIR: Michael Pisarcic

DEPARTMENT ADMINISTRATIVE COORDINATOR:

Virginia Wagg

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Chair, Department of Geography and Tourism Studies, Brock University, St. Catharines, Ontario, Canada L2S 3A1. Telephone (905) 688-5550, ext. 3484. Fax (905) 688-6369. E-mail: geography@brocku.ca. Internet: www.Brocku.ca/geotour.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and Tourism Studies offers programs leading to an M.A. degree in Geography, BA Geography, BSc Geography and BA Tourism and Environment degrees at the Honours and pass levels. It also participates in a number of combined major programs. In addition, the Department offers a five-year BA or BSc Honours degree in Geography concurrently with a B.Ed. degree; and a four-year Honours BA or BSc Geography degree concurrently with a co-op work program. The discipline of Geography has a broad scope and combines elements of both the social and natural sciences. Two principal divisions of the subject exist—human geography and physical geography—linked by a common background, a mutual concern for humans and the environment and a body of related theory and methodology. Most courses emphasize structured labs and seminars in early years and progressively more independent work in later years, culminating in a mandatory internship placement and an optional Honours thesis in year 4. Field work features prominently in many courses. Physical laboratories and equipment are available for work in biogeography, climatology, geomorphology and soil science. Computer labs with geomatics software are also available for students interested in geographic information systems, remote sensing, surveying and digital mapping. The University Map, Data & GIS Library contains an extensive collection of maps, atlases and geospatial datasets housed adjacent to the Geography Department and Tourism Studies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Academic Plan: Undergraduate: two term system (September-December; January-April) with Spring Evening and Summer Day sessions. Admission requirement in Ontario is Grade 12 graduation or equivalent with 70% average or better. Bursaries and loans are available to qualified students. Information on such assistance may be obtained from the University Awards Office.

FACULTY:

- Julia Baird, Ph.D., Saskatchewan 2012, Assistant Professor* — water management and governance, resilience, sustainability science
- Jeff Boggs, Ph.D., UCLA 2005, Associate Professor* — economic geography, cultural industries, regional political economy, interactive digital media, Niagara's changing economy, precarious employment, Niagara's tourism evolution
- David T. Brown, Ph.D., McGill, 1989, Associate Professor* — digital interpretation of natural and cultural heritage; trail and greenway planning and development; sustainable transportation; historical landscapes and human-dominated ecosystem changes
- David Butz, Ph.D., McMaster, 1993, Professor* — cultural, social geography, qualitative methods, Pakistan, road construction and social change, mobilities, mobility justice, political ecology
- Danuta de Grosbois, Ph.D., Carleton University, 2007, Associate Professor* — operations management in tourism industry, revenue management in tourism industry
- David A. Fennell, Ph.D., University of Western Ontario, 1994, Professor* — ecotourism, tourism ethics, tourism & animal ethics
- Christopher Fullerton, Ph.D., Saskatchewan, 2004, Associate Professor* — rural land use planning, rural economic development, tourism geography of Niagara Falls and the Niagara Region, Ottawa's planning history, urban public transit
- Hugh J. Gayler, Ph.D., British Columbia, 1974, Professor Emeritus* — urban planning, rural-urban fringe development issues, urban social geography
- Atsuko Hashimoto, Ph.D., Surrey, 1996, Associate Professor* — rural community development through tourism in Japan, heritage and dark tourism in Japan, human rights issues in tourism, agriculture and culinary tourism
- Marilyne Jolliveau, Ph.D., Waterloo, 2003, Associate Professor* — geospatial approaches to vineyard management, wetland ecosystems, water resources management and environmental sustainability
- Phillip Gordon Mackintosh, Ph.D., Queen's, 2001, Associate Professor* — urban historical geography, reform and planning history, public space and infrastructure, bourgeois culture, historical newspapers, bicycling
- John Menzies, Ph.D., PGeo., Edinburgh, 1976, Professor* — geomorphology, glaciology, soil science, glacial
- Catherine Jean Nash, Ph.D., Queen's, 2004, Professor* — social, cultural geography, urban studies and planning, feminist, lgbt, queer, trans issues
- Michael Pisaric, Ph.D., Queen's, 2001, Professor* — biogeography, climate change, dendrochronology, paleolimnology, ecological disturbance, Arctic and boreal regions
- Michael Ripmeester, Ph.D., Queen's, 1995, Professor* — historical geography, cultural geography, historical geographies of First Nations, geographies of popular memory
- Anthony B. Shaw, Ph.D., Western Ontario, 1981, Professor* — climatology, meteorology, viticulture
- Dragos Simandan, Ph.D., Bristol, 2004, Professor* — geographical reasoning, philosophy of the social sciences, social theory, economic geography, the psychology-geography interface
- David J. Telfer, PhD, Waterloo, 1996, Associate Professor* — tourism and development theory, tourism planning, tourism in developing countries, rural tourism in Japan, heritage and dark tourism in Japan, agriculture and culinary tourism
- Kevin Turner, Ph.D., Wilfrid Laurier, 2013, Assistant Professor* — hydrology, geomatics, paleolimnology, biogeography
- Ebru Ustundag, Ph.D., York, 2005, Associate Professor* — citizenship studies, urban geography, theories of space and nationalism, Ottoman Empire and Turkey

CARLETON UNIVERSITY

DEPARTMENT OF GEOGRAPHY & ENVIRONMENTAL STUDIES

DATE FOUNDED: 1949

GRADUATE PROGRAM FOUNDED: 1965

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.

GRANTED 9/1/16-8/31/17: 66 Bachelors, 3 M.A., 7 M.Sc., 2 Ph.D.

STUDENTS IN RESIDENCE: 409 Majors, 10 M.A., 23 M.Sc., 27 Ph.D.

CHAIR: Scott Mitchell

DEPARTMENT ADMINISTRATIVE ASST: Natalia Fierro

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Department of Geography & Environmental Studies, Carleton University, 1125 Colonel By Drive, Ottawa, Ontario, Canada K1S 5B6. Telephone (613) 520-2561. Fax (613) 520-4301. E-mail: Chair_Geography@carleton.ca. Internet: www.carleton.ca/geography.

PROGRAMS AND RESEARCH FACILITIES:

Undergraduate Programs

- BA Geography (3yr General; 4yr Honours); BA Geography with Concentration in Physical Geography (4yr Honours); BA Combined (4yr Honours)
- BSc Physical Geography (4yr); BSc Combined (4yr Honours)
- BA Geomatics (4yr Honours); BSc Geomatics (4yr Honours)
- BA Environmental Studies (3yr General; 4yr Honours)
- BA in Global and International Studies (4yr Specialization in Environment and Globalization, or 3yr Stream in Environment and Globalization)
- Minors available in: Environmental Studies, Geography, Physical Geography, Geomatics, and Urban Studies
- Co-operative education options available for BA Honours programs

Graduate Programs

The Department's MA, MSc and PhD programs encourage students to integrate perspectives from the biophysical and social sciences.

- MA and MSc Geography (2yr, thesis): The MSc research themes include *Environmental sustainability*, *Cities and urban transformations*, *Social and political change*, and *Innovative research methodologies* including the integration of geomatics-based approaches. We also offer the MA with a specialization in African Studies. MSc Geography research themes include *Physical Geography* and *Geomatics* with emphasis on geomorphological and biophysical aspects of cold regions, environmental change, and remote sensing and geographic information system methodological development and environmental analysis. We also offer the MSc with a specialization in Data Science.
- MA and MSc Northern Studies (1yr, courses): The interdisciplinary Northern Studies graduate programs emphasize northern environments and societies, and the policies that are developed to govern them.
- Graduate Diplomas Northern Studies: for students either registered in or not registered in other graduate programs at Carleton University.
- PhD Geography (5yr, thesis): The PhD program is defined in terms of the interaction of society and the natural environment in the context of global change. It is structured around two interacting fields: (1) the *geography of societal change* – global

political economy, restructuring and the environment, feminist geographies; and, (2) the *geography of environmental change* – environmental processes and anthropogenic impacts, appraisal and societal management of environmental resources.

Research Facilities

The research of the department is supported by specialized facilities including laboratories for Geocryology, Geomatics and Landscape Ecology, and Cybercartography. Carleton University's location in Ottawa provides access to more than 50 specialized libraries, including the National Library, National Archives, and Statistics Canada as well as to resources at the Canada Centre for Remote Sensing, Natural Resources Canada, and other government agencies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

MA/MSc programs: Admission requires at least B+ (77%) average in an Honours (4-year) undergraduate program in a related discipline. Candidates with other qualifications may be accepted into a qualifying year. Fall term entry is the norm.

PhD program: Admission requires at least A- (80%) average in a Masters program or equivalent. Students commence their program in September.

Financial assistance: Qualified applicants may be considered for awards, scholarships, bursaries, and teaching and research assistantships.

A detailed list of faculty, their research interests and recent publications, and graduate funding, is available on our Web page (www.carleton.ca/geography).

MCMASTER UNIVERSITY

SCHOOL OF GEOGRAPHY AND EARTH SCIENCES

DATE FOUNDED: Geology 1905; Geography 1946

GRADUATE PROGRAM FOUNDED: Geology pre-1915; Geography 1954

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.

GRANTED 09/01/2016-11/21/2017: 96 Bachelors, 17 M.Sc., 1 M.A., 6 Ph.D.

STUDENTS IN RESIDENCE: 40 Masters, 49 Ph.D.

DIRECTOR: Dr. Janok Bhattacharya (Acting Director)

DEPARTMENT ADMINISTRATOR: Marge Geroux

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Graduate Admin, School of Geography and Earth Sciences, McMaster University, 1280 Main St. West, General Science Building -206, Hamilton, Ontario, Canada L8S 4K1. Telephone (905) 525-9140, ext.23535. Fax (905) 546-0463. E-mail: geograd@mcmaster.ca. Internet: www.science.mcmaster.ca/geo/

PROGRAMS AND RESEARCH FACILITIES: The School is in the Faculty of Science and is affiliated with the Faculty of Social Science. Its graduate program is built around diverse research interests in both physical and human geography and in geology. The fields of specialization are:

Hydrological Sciences, including climatology (surface energy; water and trace gas climatology especially in cold regions; surface climate especially in permafrost terrain); impacts of climatic change on energy, water, and trace gas fluxes; physical hydrology (cold regions hydrological research on snow, ice, permafrost, and northern wetlands); surface water and ground water interaction; statistical hydrology

Earth Surface Processes, including sedimentation processes and their impacts on environmental systems; paleoenvironmental reconstruction in glacial, Mediterranean and other terrains; geophysical methods

Geochemistry, including hydrological pathways, biochemical, and contaminant transport; wetland-atmosphere trace gas exchange; peatland development and human impacts on wetland hydrology and nutrient cycling, microbially mediated metal reactions, stable isotope techniques, paleo-environmental reconstruction

Environment and Health; geographic aspects of health promotion; issues in health and health care policy and planning; spatial relationships of health and environmental factors

Social Geography, including Political Economy (geography of the state; dependent populations; social housing; urban and regional development); Urban Historical Geography (the evolution of cities in the nineteenth and twentieth centuries; suburban development and housing in North America)

Spatial Analysis: the visual and numerical analysis of data at various spatial scales, including GIS, remote sensing, descriptive and inferential spatial statistics; Theoretical Urban Economic Geography (residential choice and intraurban migration); Regional Analysis (the relations between technical change and regional development; and inter-regional migration)

The School occupies major parts of two adjacent buildings, and offers graduate student office space; seminar rooms, and laboratories for work in physical geography and spatial analysis. Facilities include extensive laboratory and field equipment, and various field research sites. There is an extensive suite of GIS, statistical and remote sensing software available for student and research use. McMaster is a node on the SHARCnet supercomputer. The University Libraries (including the Map Library), allied departments and Graduate Club are all within a few minutes' walk across a pedestrian campus. Support staff provide technical and administrative assistance.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Admission Requirements: A standing of Class I(A) or upper Class II(B plus) in previous academic work. Financial Aid: 1) National Science and Engineering Council Fellowships. 2) Social Science and Humanities Research Council of Canada, 3) Canadian Institutes for Health Research awards, 4) Ontario Graduate Scholarships, 5) University Scholarships, 6) Assistantships: Candidates for the Ph.D. without external scholarship will receive \$11,520.46 Teaching Assistantship and \$11,950.00 Department Scholarship; candidates for M.A. or M.Sc. without external scholarship will receive: \$11,520.46 Teaching Assistantship and \$9,915.00 Department Scholarship (plus increases for the next academic year). Assistantships entail 10 hours per week of teaching or research during the September-April academic year. Academic Plan: Year is identified into three terms: Sept. - Dec., Jan. - April, May - Aug.

FACULTY:

M. Altaf Arain, Ph.D., Arizona, 1997, Professor — climatology, hydrometeorology

Luc Bernier, Ph.D., McMaster, 2007, Assistant Professor — geomicrobiology, environmental geochemistry

Janok Bhattacharya, Ph.D., McMaster, 1989, Professor — sequence stratigraphy, 3D facies architecture, paralic and fluvial depositional systems

Joe I. Boyce, Ph.D., Toronto, 1997, Associate Professor — applied geophysics, sedimentary geology

Sean Carey, Ph.D., McMaster, 2000, Professor — cold weather

Vera A. Chouinard, Ph.D., McMaster, 1987, Professor — urban political economy

Alan P. Dickinson, D.Phil., Oxford, 1981, Professor — geology

Carolyn H. Eyles, Ph.D., Toronto, 1986, Professor — glacial sedimentology
Richard S. Harris, Ph.D., Queen's, 1981, Professor — social/political geography
Sang Tae Kim, Ph.D., McGill University, 2006, Associate Professor — Stable Isotopy Geochemistry
John MacLachlan, Ph.D., McMaster, 2011, Assistant Professor — advancement in classroom technologies and learning, glacial spatial distribution
Michael Mercier, Ph.D., McMaster, 2003, Assistant Professor — teaching and learning environment and methods, social geography
K. Bruce Newbold, Ph.D., McMaster, 1994, Professor — migration, immigration, medical
Maureen Padden, Ph.D., ETH, Zurich, Switzerland, 2001, Associate Professor — Environment Health & Geochemistry
H. Antonio Paez, Ph.D., Tohoku, Japan, 2000, Professor — Spatial data analysis and statistics
Eduard G. Reinhardt, Ph.D., Carleton, 1996, Professor — geology
Darren M. Scott, Ph.D., McMaster, 2000, Professor — sustainable transportation
Gregory F. Slater Ph.D., Toronto 2001, Associate Professor — Contaminant geochemistry
James E. Smith, Ph.D., Waterloo, 1995, Professor — hydrogeology
J. Michael Waddington, Ph.D., York, 1995, Professor — biogeochemistry
Allison M. Williams, Ph.D., York 1997, Professor — Social Geography and Health
Robert D. Wilton, Ph.D., Southern California, 1999, Professor — urban, disability, health
Niko Yiannakoulis, Ph.D., University of Alberta 2006, Associate Professor — Spatial Analysis, Environment & Health

CROSS-APPOINTED FACULTY:

Paulin Coulibaly, Ph.D., Laval, 2000, Professor — water resources systems analysis and modeling (joint appointment with Civil Engineering)
Karen Kidd, Ph.D., Guelph, 1991, Professor — contaminants in Aquatic Food Webs, forest management and stream health, dams and dam removal (joint appointment with Biology)
Suzanne Mills, Ph.D., Saskatchewan, 2007, Associate Professor — gender, equity and unions, labour and the environment (joint appointment with Labour Studies)

QUEEN'S UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND PLANNING

DATE FOUNDED: 1960 (Geography); 1970 (Planning)

GRADUATE PROGRAM FOUNDED: 1965 (Geography); 1970 (Planning)

DEGREES OFFERED: B.A., B.A. (Hons.) B.Sc., B.Sc. (Hons), M.A., M.Sc., M.Pl., Ph.D.

GRANTED 9/1/16 - 8/31/17: 93 Bachelors, 30 Masters, 3 Ph.D.

STUDENTS IN RESIDENCE: 298 Majors, 90 Masters, 35 Ph.D.

NOT IN RESIDENCE: 9 Masters, 27 Ph.D.

HEAD: Warren Mabee

DEPARTMENT MANAGER: Kathy Hoover

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: E-mail: graduate.info@queensu.ca, World Wide Web: <http://www.queensu.ca/geographyandplanning>

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and Planning offers programs of study in the following fields:

HUMAN GEOGRAPHY and PLANNING

The broad emphasis in the field of Human Geography is on exploring the evolution of a multitude of human systems. The focus is on the interactions and linkages between systems that operate at different scales, ranging from local (work, place, bodies, gender, health and healthcare, urban areas) and increasing through regional and national scales (citizenship, justice, governance, postcolonialism, indigenous peoples) to global systems (globalization, development, economies, sustainability). Unifying themes include identity and place. The broad emphasis in the area of Urban and Regional Planning is on the planning and development of cities and regions, and the relation between development and public policy concerns. Research in urban and regional planning seeks to integrate the latest knowledge related to environment and society with real-world planning challenges. Areas of focus include health and social planning, environmental services, and land use and real estate planning.

Faculty: Agarwal, Andrew, Cameron, Castleden, Collins, Davidson, Donald, Godlewska, Gordon, Holmes, Hovorka, Kobayashi, Lovell, Meligrana, Mullings, Rosenberg, Viswanathan, Whitelaw

EARTH SYSTEM SCIENCE

The broad emphasis in the field of Earth System Science is on developing an integrative understanding of the Earth as a physical system of interrelated phenomena. The focus is on the interaction and linkages throughout the environment - the lithosphere, atmosphere, hydrosphere, cryosphere, and biosphere - and on physical, chemical, and biological processes operating at a wide range of spatial and temporal scales. Areas of faculty interest include forest systems, cold regions, energy production, and planning around resource use. Measurement, integration, and modelling of earth system elements to understand these linkages are key foci of research and graduate training activities. Field measurements and sample collection are matched with laboratory and data analysis, and modelling.

Faculty: Chen, Bevan, Danby, Lafrenière, Lamoureux, Mabee, McCaughey, Scott, Treitz

GEOGRAPHIC INFORMATION SCIENCE

The broad emphasis of research in GIS encompasses the theoretical, technical and applied aspects of cartography, geographic information systems, remote sensing and image processing, and modeling of human and natural systems. Specific areas of research focus relate GIS to aspects of human geography (disease modeling, mapping of human impacts on the environment, resource optimization, contemporary and historical cartography), physical geography (biophysical remote sensing, image processing, geo-visualization, environmental modeling) and urban and regional planning (land use planning, network analysis, cartography, social engagement).

Faculty: Bevan, Chen, Danby, Scott, Treitz

FACULTY:

Ajay Agarwal, Ph.D., Southern California, 2009, Associate Professor — travel behaviour of Generation Y, determinants of changes in urban spatial structure, promoting public transit in midsize Canadian cities

John Andrew, Ph.D., Toronto, 1999, Continuing Adjunct Assistant Professor — commercial real estate financial feasibility analysis, environmental issues in buildings and land, conflict management and public consultation in real estate planning, real estate decision-making and investment strategy, transportation infrastructure development and public-private collaboration

- George Bevan, Ph.D., University of Toronto, 2005, Associate Professor — photogrammetry and computational photography, multi-spectral imaging (reflected UV and IR; UV/IR fluorescence), X-ray fluorescence, historic air photos, unmanned aerial vehicles, geohazards and geotechnics, computed tomography, art conservation science, syriac, ecclesiastical politics and geography in late antiquity
- Laura Cameron, Ph.D., Cambridge, 2001, Professor and Canada Research Chair (2003-2013) — cultures of nature, historical geographies of science, sonic methods
- Heather Castleden, Ph.D., Alberta, 2007, Associate Professor and Canada Research Chair — Treaty rights, negotiations, and implementation, Indigenous-Settler reconciliation, Social-environmental justice and health equity, Decolonizing, Indigenous, and participatory methodologies
- DongMei Chen, Ph.D., San Diego State University/University of California-Santa Barbara, 2001, Professor — geographic information systems, remote sensing, spatial analysis, environmental management
- Patricia Collins, Ph.D., Simon Fraser University, 2009, Associate Professor — healthy and sustainable community planning and governance, and currently encompasses topics ranging from school closures, play deserts, commuting and health, food insecurity, and integrated community sustainability planning
- Ryan Danby, Ph.D., Alberta, 2007, Associate Professor — landscape ecology, biogeography, conservation biology, scale and hierarchy theory, arctic-alpine environments
- Joyce Davidson, Ph.D., Edinburgh, 2001, Associate Professor — emotional geographies, gender and embodiment, mental health and illness, feminism and geography
- Betsy J. Donald, Ph.D., Toronto, 1999, Professor — urban and regional political economy, economic geography, urban governance, cultural economies of food and food systems planning
- Anne Godlewska, Ph.D., Clark, 1985, Professor — the presence of Indigeneity in the Canadian Imagination, the flavours of Canadian identity in Canadian provincial education, geography, colonialism and imperialism, the map and society
- David L.A. Gordon, D.Des, Harvard, 1994, Professor and SURP Director — suburbs in Canada, Australia and USA, planning history, especially Ottawa, capital cities, urban redevelopment, especially waterfronts, community design
- Alice Hovorka, Ph.D., Clark University, 2003, Professor and Director of Environmental Studies — animal geographies, gender and environment, urban geography, Southern Africa
- Audrey L. Kobayashi, Ph.D., UCLA, 1983, Professor — racism, human rights, feminism, immigration, critical disability studies, law and geography, Asia and Cuba
- Melissa Lafrenière, Ph.D., Alberta, 2003, Associate Professor — biogeochemistry, hydrology, carbon and nutrient cycling in alpine and arctic catchments
- Scott Lamoureux, Ph.D., Alberta, 1998, Professor — permafrost, geomorphology, hydrology and climate, especially in cold regions
- Warren E. Mabee, Ph.D., Toronto, 2001, Professor and Head and Canada Research Chair — forests and energy, bioenergy and biofuel technology, regional energy systems
- John F. Meligrana, Ph.D., Simon Fraser, 1998, Associate Professor — Local government reform, regional governance, urban-rural fringe, urban planning and development in China
- Beverly Mullings, Ph.D., McGill, 1997, Associate Professor — International political economy, feminist geography, globalization and development, changing gender regimes, skilled migration and the new middle classes, the Caribbean, and Caribbean diaspora
- Mark W. Rosenberg, Ph.D., London School of Economics, 1980, Professor and Canada Research Chair — population studies, medical, public policy
- Neal Scott, Ph.D., Colorado State, 1996, Associate Professor and Canada Research Chair (2005-2015) — terrestrial biogeochemistry, disturbance effects on carbon and nitrogen cycling, land-use change and greenhouse gas emissions
- Paul M. Treitz, Ph.D., Waterloo, 1997, Professor — biophysical remote sensing of arctic and boreal environments, environmental monitoring of arctic environments using SAR, Lidar remote sensing for forestry
- Leela Viswanathan, Ph.D., York, 2007, Associate Professor — planning with Indigenous Peoples, planning pedagogy, race, space, and cross-cultural relations
- Graham S. Whitelaw, Ph.D., Waterloo, 2006, Associate Professor — Environment and sustainability, focused primarily on three interrelated themes: regional planning, monitoring and environmental assessment. Oak Ridges Moraine Conservation Plan
- EMERITI FACULTY:**
- Peter G. Goheen, Ph.D., Chicago, 1970, Professor Emeritus — historical, urban
- John Holmes, Ph.D., Ohio State, 1974, Professor Emeritus — urban and regional political economy, economic geography, labour geography
- Hok-Lin Leung, Ph.D., Reading, 1985, Professor Emeritus — land use planning, urban design, policy planning and evaluation, cultural comparison
- W. George Lovell, Ph.D., Alberta, 1980, Professor Emeritus — historical, cultural, Latin America
- J. Harry McCaughey, Ph.D., McMaster, 1972, Professor Emeritus — climate change, adaptation to climate change, the role of forests in climate change, forest climatology, radiation, energy and water balance climatology, carbon cycling in ecosystems
- Eric G. Moore, Ph.D., Queensland, 1966, Professor Emeritus — population, urban, public policy
- Brian S. Osborne, Ph.D., Southampton, 1967, Professor Emeritus — historical, cultural
- Mohammad Qadeer, Ph.D., Columbia, 1971, Professor Emeritus — multiculturalism, cities and planning for diversity, urban development and planning in the Third World
- J. Barry Riddell, Ph.D., Pennsylvania State, 1969, Professor Emeritus — Third World underdevelopment, debt and conflict, globalization and development, the World Bank and neoliberalism in the Caribbean
- Andrejs Skaburskis, Ph.D., UC Berkeley, 1977, Professor Emeritus — urban spatial structure, housing markets, urban economy
- Rowland R. Tinline, Ph.D., Bristol, 1973, Professor Emeritus — medical, geographic information systems, disease modelling
- CROSS-APPOINTED FACULTY:**
- Bruce Anderson, Ph.D., British Columbia, 1989, Professor in Civil Engineering — urban stormwater management, low impact development/green infrastructure, passive wastewater treatment systems, control of nutrient loading from agricultural areas
- Jeffrey R. Masuda, Ph.D., Alberta, 2005, Associate Professor in Kinesiology and Health Studies — environmental health equity, social and environmental justice, urban health, knowledge translation, right to the city
- David A. McDonald, Ph.D., Toronto, 1996, Professor in Global Development Studies — urbanization/cities, public services, privatization, environmental justice, international migration, development
- Katherine McKittrick, Ph.D., York, 2003, Associate Professor in Gender Studies — black studies, black geographies, cultural geographies, studies of race
- David Murakami-Wood, Ph.D., Newcastle, U.K., 2001, Associate Professor of Sociology and Canada Research Chair (Tier II) in Surveillance Studies — Surveillance, Technology and Society, Global Cities, Social Theory

Joan Schwartz, Ph.D., Queen's, 1998, Professor and Head in Art History and Art Conservation — History of Photography, Nineteenth-Century Photography and the Geographical Imagination, Early Landscape/Travel Photography, The Management of Photographic Archives

RYERSON UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL STUDIES

DATE FOUNDED: 1974

DEGREES OFFERED: B.A. in Geographic Analysis (GA),
B.A. in Environment and Urban Sustainability (EUS),
Master of Spatial Analysis (MSA)

GRANTED 7/1/16-6/30/17: 54 Bachelors (GA), 45 Bachelors (EUS), 15 Masters (MSA)

STUDENTS IN RESIDENCE: 249 Majors (GA), 306 Majors (EUS), 31 Masters (MSA)

CHAIR: Claus Rinner

DEPARTMENT ADMINISTRATOR: Christina Smith

FOR CATALOG AND FURTHER INFORMATION WRITE TO: See Department Website at www.ryerson.ca/geography

PROGRAMS AND RESEARCH FACILITIES: Ryerson University's undergraduate Geographic Analysis (GA) program emphasizes the application of geographic skills in a research and problem-solving framework. The goal of the program is to provide students with a unique combination of theory and analytical techniques which will enable them to work effectively and independently in a variety of employment settings after graduation. Emphasis is placed on digital geographic applications, including Geographic Information Systems (GIS), remote sensing, and the use of geospatial databases. The Environment and Urban Sustainability (EUS) program is focused on the development of skills required for academic and future success in the workplace. This is achieved as students interpret environments, examine ecological processes, explore urban policy, and critique sustainable initiatives, using the principles underlying physical and natural environments. Both the GA and EUS programs lead to an honours degree, Bachelor of Arts (BA).

Through the G. Raymond Chang School of Continuing Education, the department offers three post-baccalaureate certificates. The Certificate in Applied Digital Geography and GIS, as well as the Advanced Certificate in Applied Digital Geography and GIS, present courses in a wide range of GIS applications and geospatial technologies for those who want to enter a GIS-related occupation and for GIS professionals wishing to review and expand their GIS knowledge and skills. The Certificate in Demographic Analysis focuses on the principles and applications of demographic analysis and GIS applications in demography with a concentration on applications used for business, commercial or public sector purposes, immigration and settlement studies and/or the economic impacts of demographic change.

Jointly with the Centre for the Study of Commercial Activity at Ryerson University, the department offers the Master of Spatial Analysis (MSA) program. The major research paper option of the MSA program can be completed in one year of full-time studies or two years of part-time studies. The thesis option takes 16-20 months of full-time studies. MSA student research is organized by three fields of study: business/commercial, physical/landscape, and social/community information analysis. For more information, see www.ryerson.ca/graduate/programs/spatial. The department also contributes to the interdisciplinary graduate programs in Environmental Applied Science and Management (MA, Sc., PhD), Immigration and Settlement Studies (MA), and Policy Studies (PhD).

ACADEMIC PLAN AND ADMISSION REQUIREMENTS: The BA programs start with a one-year common curriculum with other social sciences and humanities programs, allowing the transferability of course credits. A total of 40 (EUS) or 41 (GA) one-semester courses are required. The programs include a mandatory (GA) or optional (EUS) internship placement, as well as field trips and project-based capstone courses. The MSA graduate program consists of four required core courses, two electives, and a practicum placement, as well as a major research paper or thesis.

See: www.ryerson.ca/undergraduate/calendars/ and

www.ryerson.ca/graduate/currentstudents/calendarsanddates.html for more information.

To qualify for admission to the undergraduate programs, applicants must have acquired or be eligible to receive the Ontario Secondary School Diploma (OSSD) or equivalent with a minimum of six Grade 12 U or M courses (a minimum grade of 60% is required in each; a minimum overall average of 70% establishes eligibility for admission consideration, but is subject to competition where higher pre-requisite grades and/or higher overall averages may be necessary. It is required that applicants include English/Anglais, and recommended that they have Geography and Mathematics in their program. Further information can be found at:

www.ryerson.ca/undergraduate/admission/programs/geog.html.

FACULTY:

David Atkinson, PhD, Queen's (Canada), 2013 — Arctic biophysical systems, remote sensing, GIS

Michal Bardecki, PhD, York (Canada), 1981 — wetlands, environmental impact assessment, environmental education, Nepal

Harald Bauder, PhD, Wilfrid Laurier, 1998 — critical geographies, international migration, labour markets, geographic practice, critical border studies

Wendy Burton, PhD, Toronto, 2016 — urban geography and planning, environmental governance, greenspace protection, sustainable development

Valentina Capurri, PhD, York (Canada), 2010 — urban geography, globalization, immigration, citizenship and identity

Brian Ceh, PhD, Western Ontario, 1994 — business and commercial geography, GIS, urban-economic, quantitative

Philip Coppack, PhD, Waterloo, 1985 — economic geography, globalization, quantitative methods

Sara Edge, PhD, McMaster, 2012 — environment and sustainability governance, complex socio-ecological systems, promotion of healthy sustainable communities

K. Wayne Forsythe, PhD, Salzburg, 1999 — geospatial analysis of contaminated sediments, urban change detection, remote sensing, GIS

Larry Fullerton, MA, York (Canada), 1970 — demography, recreation

Sutama Ghosh, PhD, York (Canada), 2006 — immigration and settlement, transnationalism, race and racism

Hersch Jacobs, PhD, Toronto, 1976 — geography of food, rural, analysis of risk

Jeanne Maurer, MA, Toronto, 1992 — agriculture and rural land use, globalization, world cities, political ecology

Andrew Millward, PhD, Waterloo, 2004 — urban forestry and disturbance ecology, applications of remote sensing and spatial data handling

Ann Marie Murnaghan, PhD, York (Canada), 2010 — social and cultural geographies, urban geography, children's geographies, Toronto

Tor Oiamo, PhD, Western Ontario, 2014 — exposure assessment, environmental modelling, health risk assessment, GIS and spatial statistics, health and medical geography

Claire Oswald, PhD, Toronto, 2011 — physical geography, watershed hydrology and biogeochemistry, watershed ecosystem science and management

Greg Oulahan, PhD, Western Ontario, 2014 — human-environment interaction, hazards, risk, vulnerability, climate change adaptation

Claus Rinner, PhD, Bonn, 1999 — GIS, cartographic visualization, web mapping, spatial decision support systems (SDSS)

Richard Shaker, PhD, Wisconsin-Milwaukee, 2011 — sustainability indicators, sustainable urbanization, landscape ecology, global change, spatial analysis and statistics, sustainable development planning

Stephen Swales, MA, Calgary, 1985 — land use development and planning, GIS

Eric de Noronha Vaz, PhD, NOVA Lisbon, 2011 — GIS, complex systems, regional and urban planning, neogeography

Lu Wang, PhD, York (Canada), 2004 — medical geography, immigrant health, economic geography, consumption and retailing, spatial and statistical modeling, mixed-method approaches

Shuguang Wang, PhD, Alberta, 1994 — geography of retailing, ethnic economy, immigrant settlement patterns, China

Christopher Wellen, PhD, Toronto, 2013 — hydrology, biogeochemistry, agroecosystems, environmental modelling, Bayesian inference and risk assessment

UNIVERSITY OF GUELPH

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1966

GRADUATE PROGRAM FOUNDED: 1968

DEGREES OFFERED: BA, BSc, BSc (Env), MA, MSc, PhD

GRANTED 2016-2017: 108 Bachelors, 23 Masters; 1 PhD

STUDENTS IN RESIDENCE: 345 Majors, 41 Masters, 15 PhD

NOT IN RESIDENCE: 4 PhD, 2 Masters

CHAIR: John Smithers

DEPARTMENT ADMINISTRATIVE ASST: Jennifer Beehler

FOR CATALOG AND FURTHER INFORMATION WRITE TO: See web site: www.uoguelph.ca/geography

PROGRAMS AND RESEARCH FACILITIES: The Department offers Master's and Doctoral degrees. MA and MSc degrees include opportunities to specialize in human-environment geography, environmental geoscience and geomatics. Both thesis and non-thesis options of the above programs are available. Thesis and non-thesis collaborative Master's programs in international development studies also are offered. The PhD program offers opportunities for advanced research in areas focusing on these same areas. PhD theses can be completed in the form of a traditional dissertation, or as manuscripts. The Department has extensive computer facilities for data analysis and GIS, and has fully equipped geomorphology labs which include a wind tunnel, flume, and wave tank. The Department's programs are supported by an excellent University Library collection.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Trimester system. Admission requirements: at least a B average in Honours Geography or equivalent for the MA/MSc; at least an A- average at the Master's level for the PhD. Subject to satisfactory performance, the Department of Geography guarantees that full time Master's students will have minimum funding of **\$17,330** in Semesters 1 to 3 and **\$11,330** in Semesters 4 and 5. Doctoral students who have not waived the normal guaranteed minimum funding arrangement and who meet minimum performance requirements are guaranteed a minimum of \$17,500 per year for three years. Because of the close collaborative relationship that typically exists between students and their faculty advisors, excellent support for field work and equipment is usually also provided.

FACULTY:

Lorne P. Bennett, PhD, Ottawa, 1989, Associate Professor — physical geography, biophysical processes, wildlife dynamics

Aaron A. Berg, PhD, California Irvine, 2003, Professor — physical geography, hydrology and remote sensing

Ben E. Bradshaw, PhD, Guelph, 1999, Associate Professor — environmental governance

Kirby Calvert, PhD, Queen's, 2013, Assistant Professor — energy transitions, resource management, community energy planning

Jaclyn Cockburn, PhD, Queen's, 2008, Associate Professor — sedimentary processes and climate change, watershed hydrology, geomorphology

Ze'ev Gedalof, PhD, Washington, 2002, Associate Professor — physical geography, paleoecology, biogeography, dendrochronology

Noella J. Gray, PhD, Duke, 2009, Associate Professor — political ecology, marine conservation

Evan Fraser, PhD, UBC, 2002, Professor, Canada Research Chair, and director of the Arrell Food Institute — challenges to global food security in 21st century

Roberta Hawkins, PhD, Clark, 2011, Associate Professor — environment and development, feminist geography

John B. Lindsay, PhD, Western Ontario, 2005, Associate Professor — GIS and spatial analysis, hydro-geomorphology, and digital terrain analysis

Janet E. Mersey, PhD, Wisconsin, 1984, Associate Professor — GIS, cartography, remote sensing, resource management

Kate Parizeau, PhD, Toronto, 2011, Associate Professor — social context of waste management

Jennifer Silver, PhD, Simon Fraser, 2010, Associate Professor — political ecology and ocean governance

John A. Smithers, PhD, Guelph, 1994, Professor and Chair — sustainable agriculture, resource management, local food systems

Wanhong Yang, PhD, Illinois, 2000, Professor — GIS, resource management, spatial analysis

EMERITUS FACULTY:

Gerald Bloomfield, PhD, Nottingham, UK, 1964, Professor — analysis of motor and aircraft industries of the British Isles

Fred Dahms, PhD, Auckland, 1966, Professor — evolution of large urban centres, small rural towns

Robin G. Davidson-Arnott, PhD, Toronto, 1975, Professor — geomorphology, coastal studies

Alun E. Joseph, PhD, McMaster, 1976, Professor — social geography, restructuring, rural community change

Philip Keddle, PhD, Waterloo, 1976, Professor — agricultural geography, sustainable rural community, social geography

Reid D. Kreutzweiser, PhD, Western Ontario, 1978, Professor — resource management, water resources, policy evaluation

Kiyoko Miyanishi, PhD, York, 1984, Professor — plant geography, plant population, dynamics, fire ecology disturbance ecology

William G. Nickling, PhD, Ottawa, 1976, Professor — physical geography, aeolian processes

Barry E. Smit, PhD, McMaster, 1977, Professor and Canada Research Chair — environment and resource use, global change, vulnerability

KC Tan, PhD, London, UK, 1966, Professor — political geography

UNIVERSITY OF OTTAWA

DEPARTMENT OF GEOGRAPHY, ENVIRONMENT AND GEOMATICS

DATE FOUNDED: 1951

GRADUATE PROGRAM FOUNDED: 1954

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.

CHAIR: Eric Crighton

DEPARTMENT ADMINISTRATIVE ASST: Nathalie Maras

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Graduate Chair, Department of Geography, University of Ottawa, 60 University, Ottawa, Ontario, Canada K1N 6N5. Telephone (613) 562-5725. Fax (613) 562-5145. E-mail: geog@uottawa.ca
Internet: <http://arts.uottawa.ca/geography/>

PROGRAMS AND RESEARCH FACILITIES: A part of North America's only major bilingual university (English and French), the Department offers courses and supervision in both English and French. The bilingual character of the Department provides the benefit of exposure to both the English-North American and French schools of thought.

At the M.A., M.Sc. and Ph.D. levels, there are a variety of teaching and research interests in physical, human and environmental geography; see the department website. In physical geography, strengths are in northern studies and climate change and impacts. In human geography, particular strengths are in cities, immigration and boundaries, aboriginal and northern studies. Finally there is interest in GIS, environmental and spatial data analysis.

Students have access to excellent facilities within the Department, including seven research and two teaching laboratories, as well as to the Geographic, Statistical and Government Information Centre, which includes a large map and air photo library. Furthermore, Ottawa offers numerous specialized federal government libraries and the facilities of embassies and consulates. The campus is located near these facilities in the city center.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: In the M.A. and the M.Sc. program, one semester of course work is followed by an examination of the thesis proposal and thesis. The Ph.D. program is composed of a semester of course work, followed by a comprehensive examination, a thesis proposal and the thesis.

ADMISSION REQUIREMENTS: Minimum of B+ standing in previous academic work. Exceptions are considered. Unilingual candidates are admissible to the program in Geography, but are expected to acquire a basic knowledge of the second official language of Canada.

FINANCIAL AID: Up to \$74,000 (for 12 sessions) for Ph.D. students; up to \$34,000\$ (for 6 sessions) for M.A. and M.Sc. students; funds are derived from teaching assignments, research assistantships and Faculty of Graduate and Postdoctoral Studies Scholarships. Additional funds may be obtained from contracts and grants. Applicants seeking departmental funding are required to make applications to external scholarships, e.g., SSHRC, NSERC, OGS, etc.

APPLICATION DEADLINE: To be considered for departmental or university funding, applications must be received by May 1st.

FACULTY:

Kenza Benali, PhD, Montreal, 2008, Associate Professor — urban and cultural geography, sustainable city, postmodern and modern city

Marc Brosseau, PhD, Paris-Sorbonne, 1992, Professor — social and cultural geographies of urban space, history of French Canadian geography textbooks, geography and literature interface, geography and literature

Huhua. Cao, PhD, Laval, 1998, Professor — geomatics, ethnic minorities and urban/regional development, geography, spatial inequality and accessibility to Social services, mobility and urbanization, regional minority dynamics in China, francophone urban space in Canada, spatial and statistical analysis

Luke Copland, PhD, Alberta, 2001, Professor — climate change, ice dynamics, glaciology, cryosphere, geomatics, remote sensing, GPS

Eric Crighton, PhD, McMaster, 2005, Professor and Chair — environmental health, health geography, children's health, social determinants of health, risk perceptions and protective behaviours, health services research

Jackie Dawson, PhD, Waterloo, 2009, Associate Professor — human dimensions of environmental change, vulnerability and adaptation, resilience, marine governance, Arctic economic development

Konrad Gajewski, PhD, Wisconsin, 1983, Professor — biogeography, climatology, statistical analysis of environmental data, climate change and impacts, Quaternary studies, paleoclimatology and paleoecology, global change, GIS

Denis Lacelle, PhD, Ottawa, 2006, Associate Professor — cold region geomorphology, permafrost hydrology and weathering processes, origin, stability and habitability of ancient permafrost and ground ice, quaternary paleoclimate and paleoenvironment studies, planetary ice/ permafrost studies

Antoni Lewkowicz, PhD, Ottawa, 1981, Professor — permafrost geomorphology and hydrology, effect of global change on Arctic regions, mountain permafrost

Brenda Macdougall, PhD, Saskatchewan, 2005, Associate Professor — Metis history and culture, landscape and memory, digital research, historical processes of identity formation

Brian K. Ray, PhD, Queen's, 1992, Associate Professor — immigrant integration, immigrant women and social networks, social justice,

Marc Saner, PhD, Switzerland, 1991, Professor — Environmental ethics, governance and ethics of emerging technologies, risk management and governance, interface between science and policy

Michael C. Sawada, PhD, Ottawa, 2001, Professor — GIS, spatial analysis, continental-scale paleoenvironmental change

Luisa Veronis, PhD, Toronto, 2006, Associate Professor — transnationalism, immigrant and citizenship, the formation of immigrant communities and identities, Latin American migrants in Canada, neoliberal governance and the nonprofit sector

Andre Viau, PhD, Ottawa, 2003, Associate Professor — climatology, climate system history and dynamics, abrupt climate change, high latitude climates, global warming, environmental data analysis and modelling and human climate interactions

Sonia Wesche, PhD, Wilfrid Laurier, 2009, Assistant Professor — human dimensions of environmental change, vulnerability and adaptation, food security, aboriginal health, global health

EMERITUS FACULTY:

Hugh French, PhD, South, 1967 — permafrost geomorphology, Polar Regions, pleistocene, quaternary studies

Anne Gilbert, PhD, Ottawa, 1985, Professor — social and cultural geography, regional geography, minorities and development, new technologies of information and communication

Peter Johnson, PhD, Leeds, 1969 — geomorphology, Yukon Territory
Bernard Lauriol, PhD, Montreal, 1981, Professor — underground ice, karst geomorphology

Léon Ploegaerts, PhD, Montreal, 1975 — urban and regional planning, urban morphology, territorial legislation

Denis A. St-Onge, PhD, Louvain, 1962, Ph.D. (Hon. Causa, Manitoba) — geomorphology, quaternary geology, Arctic

Barry Wellar, PhD, Northwestern, 1969 — urban and regional planning, public policy analysis, research methods

ADJUNCT PROFESSORS:

David Burgess, PhD, Alberta, 2006 — Arctic glaciology

Laurence Gray, PhD, Calgary, 1971 — remote sensing, ice dynamics

Jeff Harris, PhD, Alberta, 2006 — remote sensing

Stephen Howell, PhD — Arctic sea ice

Robert McLeman, PhD, Guelph, 2005 — human vulnerability and adaptation to environmental change, particularly climate change, Relationship between environmental conditions and human migration, Environment and security, environmental limits to urban growth, Sustainable development

Elena Ponomarenko, PhD, Moscow State, 1986 — ecosystem aehaeology, paleoecology, disturbance dynamics, soil science

Sharon Smith, PhD, Carleton — permafrost, climate change, environmental impacts of northern development on permafrost terrain

Nicholas Tremblay, PhD, Laval, 1986 — remote sensing applications in agriculture

UNIVERSITY OF TORONTO

DEPARTMENT OF GEOGRAPHY AND PLANNING

DATE FOUNDED: 1935

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.

Geography; M.Sc. Planning; Ph.D. Planning

GRANTED 9/1/16 - 8/31/17: 243 Bachelors, 26 Masters, 11

Ph.D. Geography, 28 M.Sc.Planning, 1 Ph.D. Planning

STUDENTS IN RESIDENCE: 111 Masters, 123 Ph.D.

CHAIR AND GRADUATE CHAIR: Virginia Maclaren

ADMINISTRATIVE ASST: Maria Wowk

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Graduate or Undergraduate Program Administrator, Department of Geography and Planning, University of Toronto, 100 St. George, Sidney Smith Hall - Room 5047, Toronto, Ontario, Canada M5S 3G3. Telephone (416) 978-3375 Fax (416) 946-3886 E-mail: geograd@geog.utoronto.ca (for graduate programs) or undergrad@geog.utoronto.ca (for undergraduate programs) Website: www.geography.utoronto.ca

PROGRAMS AND RESEARCH FACILITIES: The University of Toronto has a tri-campus graduate program that includes faculty members from the Mississauga, St. George and Scarborough campuses. Each of the three campuses has a separate undergraduate program. The Geography M.A. and M.Sc. programs comprise two terms of graduate coursework and completion of either a thesis or a research paper. The Ph.D. requires completion of two terms of coursework, a comprehensive exam, and the preparation of a doctoral thesis or three publishable papers. This program requires two years in residence.

The Department is prepared to supervise graduate research in climatology, geomorphology, remote sensing, climate change, bioenergy, chemical and physical hydrology, resource and environmental management, cultural and social geography, historical geography, urban design, urban sustainability, economic geography, regional development, urban geography and planning. The Department conducts research on Canada, the United States, Latin America, Africa, Western Europe, and East and South Asia. In addition, the Department offers specialized training in GIS and remote sensing at the Master's and Doctoral levels.

The Department also offers a Master's degree in Planning, a two-year professional degree that is taught by planners and geographers with planning interests and by practitioners from the wider community.

Five specializations are offered: urban, economic, social, environmental and urban design. The Ph.D. in Planning, like the Geography Ph.D., is a research degree requiring the preparation of a doctoral thesis. The Ph.D. program has three specializations: Cities in Global Context: Economic Development and Social Planning, Environmental and Sustainability Planning, and Urban Development, Design and the Built Environment.

The Department offers collaborative graduate degrees in Environmental Studies, Environment and Health, Aboriginal Health, Asia-Pacific Studies, Community Development, Diaspora and Transnational Studies, Ethnic and Pluralism Studies, Global Health, Jewish Studies, Sexual Diversity Studies, South Asian Studies and Women and Gender Studies.

The University library, with more than 13 million holdings has the largest collection of books and documents in Canada and is one of the top collections in North America. The Department supports a graduate computing lab, a GIS and remote sensing lab, a GIS and cartography office, and an urban design lab.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: *Academic Plan* Year system, with entrance in September. *Admission Requirements* Minimum requirement is a bachelor's degree from a recognized university with at least upper second class standing (B+) for Masters and first class standing (A-) for Ph.D. Exceptions permitted in unusual circumstances. *Financial Aid* All students offered admission, except those in the Master's degree in planning, are guaranteed funding packages of a minimum of \$16,500 plus tuition for one year in the Geography Master's program and four years for the Ph.D. in Geography or Planning. Funding is derived from a mixture of sources including teaching assistantships, research assistantships, University of Toronto fellowships, and other fellowships. Teaching and research assistantships carrying stipends of approximately \$8,000 and \$1,500, respectively are available and involve not more than ten hours work per week. Departmental awards, entrance scholarships, University of Toronto fellowships and external fellowships (Social Sciences and Humanities Research Council of Canada, Natural Sciences and Engineering Research Council of Canada, Ontario Graduate Scholarships, etc.) range from \$3,000 to \$35,000. Students in the Master's in Planning program may be offered entrance scholarships, teaching assistantships, departmental awards, and research assistantships. Summer employment in the department may be available for students in any of the four graduate programs.

FACULTY:

Christian Abizaid, Ph.D., McGill, 2007, Associate Professor — peasant livelihoods, human responses to environmental change, human-induced environmental change, land use and land cover change, environment and development, neotropical forests, Latin America

Matthew Adams, Ph.D., McMaster, 2015, Assistant Professor — urban pollution (water, air and soil), exposure science, geographic information science, spatial statistics, web cartography

Ahmed Allahwala, Ph.D., York, 2011, Associate Professor, Teaching Stream — urban social policy, participatory action research (PAR), geography education

George B. Arhonditsis, Ph.D., University of the Aegean, Greece, 1998, Professor — aquatic biogeochemical modeling, plankton ecology/foodweb dynamics, watershed-aquatic ecosystem interactions, aquatic ecosystem response to climatic variability, modeling of the disinfection by-products (DBPs) formation in water treatment plants

Laurel Besco, Ph.D., University of Ottawa, 2016, Assistant Professor — environmental/sustainability law and policy, Green economy, socio-legal dimensions of climate change

- Alana Boland, Ph.D., Washington, 2001, Associate Professor* — institutional reforms in urban water supply, green developmentalism, environmental governance, urban political economy and environment in the context of water supply and pollution control, sustainable economies, environmental indicators, China
- Donald Boyes, Ph.D., Western Ontario, 1998, Associate Professor, Teaching Stream* — Geographic IS, remote sensing, fluvial geomorphology
- Glenn Brauen, Ph.D., Carleton University, 2012, Assistant Professor, Teaching Stream* — cybercartographic mapping, geospatial knowledge models (ontologies), visualization and geographic information systems (GIS), WebMap design utilities
- Laura Brown, Ph.D., Waterloo, 2012, Assistant Professor* — cryosphere, climate – lake ice interactions, remote sensing and numerical modelling
- Michelle Buckley, Ph.D., Oxford, 2012, Assistant Professor* — Migration and urbanization, Intersectional perspectives on work and employment, Marxist philosophy and postcolonial urban frameworks
- Ronald N. Buliung, Ph.D., McMaster, 2004, Professor* — Transportation and land use planning, activity-travel analysis, GIS, spatial analysis, retail innovation and consumer travel
- Susannah Bunce, Ph.D., York, 2008, Assistant Professor* — urban community and neighbourhood geography, urban political ecology, urban sustainability policy and practice, urban residential geography
- Jing Chen, F.R.S.C., CRC; Ph.D., Reading, 1986, Professor* — climatology/hydrology, carbon cycling, remote sensing, GIS
- Tenley M. Conway, Ph.D., Rutgers, 2003, Associate Professor* — landscape ecology, land use/cover change, GIS, urban environment, remote sensing, landscape ecology
- Deborah Cowen, Ph.D., Toronto, 2005, Associate Professor* — geographies of citizenship, security and war, social space, cities, logistics, sub/urban political geography
- Amrita G. Daniere, Ph.D., Harvard, 1990, Professor* — urban development and investment patterns, urban environmental planning in developing areas, environmental infrastructure, associational life, poverty
- Joseph R. Desloges, Ph.D., British Columbia, 1987, Professor* — fluvial and glacial geomorphology, lacustrine, Holocene, glaciomarine, human impact, climate change, floodplain geoarchaeology
- Pierre Desrochers, Ph.D., Université de Montréal, 2000, Associate Professor* — economic geography, entrepreneurship, technology transfer
- Richard J. DiFrancesco, Ph.D., McMaster, 1995, Associate Professor* — urban economic and environmental economics, Canadian North
- Timothy P. Duval, Ph.D., McMaster, 2010, Assistant Professor* — wetland hydrology and biogeochemistry, watershed hydrology and biogeochemistry, stream nutrient dynamics, nitrogen and phosphorus cycling, redox chemistry, terrestrial-aquatic ecotones, wetland restoration and construction
- Michael Ekers, Ph.D., Oxford, 2010, Assistant Professor* — mobilizes social and political theory and political economic approaches to understand: (1) the production of different environmental landscapes, and (2) the identities of the people that produce environmental spaces and their social positioning in the production process
- Steven Farber, Ph.D., McMaster, 2010, Assistant Professor* — transport geography, spatial analysis, accessibility, public transportation
- Matthew Farish, Ph.D., British Columbia, 2003, Associate Professor* — militarism and geopolitics, the Cold War, environmental history, American Studies, urban culture
- Alexandra Flynn, ABD, York, Assistant Professor* — urban governance, legal geography, municipal and planning law
- Meric S. Gertler, F.R.S.C.; Ph.D., Harvard, 1983, Professor and President* — economic development in city-regions, innovation systems, comparative capitalisms
- Emily Gilbert, Ph.D., Bristol, 1998, Associate Professor* — cultural geography, cultural theory, globalization, nationalism, culture and economy, money, nation-states, citizenship, borders, security
- Kanishka Goonewardena, Ph.D., Cornell, 1998, Associate Professor* — urbanism and critical theory, planning theory and neoliberal globalization, modernity and nationalism (postcolonial and diasporic)
- William A. Gough, Ph.D., McGill, 1991, Professor* — climate change in Hudson Bay, numerical ocean and climate modeling, air quality in southwestern Ontario, climate of Toronto
- Jason Hackworth, Ph.D., Rutgers, 2000, Professor* — urban and economic geography, political economy, uneven development, governance, theorizing and understanding neoliberal governance, forms of neoconservative governance (faith-based social welfare), social housing in Canada and the US
- Ju Hui Judy Han, Ph.D., Berkeley, 2009, Assistant Professor* — religion and secularisms, travel and mobilities, gender and sexuality, urban political geography, East Asia (Korea)
- L. D. Danny Harvey, Ph.D., Toronto, 1986, Professor* — climate modeling and physical basis of climate, global warming, energy efficiency and renewable energy, energy policy
- Monika Havelka, Ph.D., Western Ontario, 2002, Associate Professor, Teaching Stream* — urban ecology and restoration ecology
- Yuhong He, Ph.D., Saskatchewan, 2008, Associate Professor* — remote sensing, advanced spatial analysis, climate change, grassland productivity and biodiversity and forest disturbance
- Paul Hess, Ph.D., Washington, 2001, Associate Professor* — urban design, pedestrian planning, planning history
- Mark Hunter, Ph.D., Berkeley, 2005, Associate Professor* — health and inequality, AIDS, sexuality, political economy, critical development studies, South Africa
- Marney Isaac, Ph.D., Toronto, 2008, Associate Professor* — agroforestry, agroecology, soil fertility, plant nutrition, localized management knowledge, ecological services, social-ecological systems, social networks, cognitive mapping
- Ryan Isakson, Ph.D., Massachusetts Amherst 2007, Assistant Professor* — political economy of food and hunger, rural livelihoods and agrarian transformations, financialization of agro-food value chains
- Themba Kepe, Ph.D., Western Cape, South Africa, 2002, Professor* — people-environment interactions, land rights, politics of development projects, southern Africa
- Nicole Klenk, Ph.D., British Columbia, 2008, Assistant Professor* — social studies of science, environmental policy, climate change adaptation, environmental governance
- Vincent Kuire, Ph.D., Western University, 2015, Assistant Professor* — migration, transnationalism and integration, population health, environment and health, sub-saharan Africa
- Nicole Laliberté, Ph.D., Pennsylvania State, 2013, Assistant Professor, Teaching Stream* — anti-oppression pedagogies, feminist geopolitics, critical geographies of development, militarization
- Igor Lehnher, Ph.D., Alberta, 2011, Assistant Professor* — biogeochemistry of major and trace elements, contaminants, impacts of climate change on aquatic ecosystems
- Deborah Leslie, Ph.D., British Columbia, 1995, Professor* — economic geography, cultural industries, feminist geography, cultural industries and urban-economic development, the politics of the creative city
- Robert D. Lewis, Ph.D., McGill, 1992, Professor* — urban historical, North America
- Joseph Leydon, Ph.D., Toronto, 1995, Associate Professor, Teaching Stream* — regional geography of North America, colonial North America and the Caribbean, population dynamics, retail analysis

- Jane Liu, Ph.D., Toronto, 2010, Assistant Professor* — Atmospheric environment (pollution transport and emission from fires, air quality and health implications, satellite monitoring, modeling), tropospheric and stratospheric ozone, climate change, atmosphere-biosphere interactions (carbon, water, and energy cycles, land surface schemes, biogenic emissions), remote sensing of atmosphere and land Ecological modeling
- Kenneth Ian MacDonald, Ph.D. Waterloo, 1995, Associate Professor* — international development, politics of biodiversity conservation, transnationalism, cultural politics, identity, consumption, nature-society relations, South Asia
- Virginia Maclaren, Ph.D., Cornell, 1984, Associate Professor and Chair* — sustainability indicators, environment management and planning, urban waste management, community indicators, community participation, Southeast Asia
- Minelle Mahtani, Ph.D., University College, London, 2000, Associate Professor* — critical “mixed race” theory, women of colour in geography and planning, media and minority representation, geographies of media, diversity and inclusion in pedagogy in geography
- John Miron, Ph.D., Toronto, 1974, Professor* — household formation, migration, housing demand, housing policy location theory, urban spatial structure and change, migration and regional economic growth
- Carl Mitchell, Ph.D., Toronto, 2006, Associate Professor* — hydrology, biogeochemistry, mercury and methylmercury, anaerobic soils, wetlands, sulfur cycling, biogeochemical hot spots, snowmelt, redox chemistry, environmental microbiology
- Sharlene Mollett, Ph.D., Toronto, 2006, Assistant Professor* — land and natural resource conflicts, political ecology, international development and racialization, Latin America, race, gender and property rights, indigenous peoples and Afro-descendent communities, feminist and post-colonial geographies
- Barbara Murck, Ph.D., Toronto, 1986, Associate Professor, Teaching Stream* — environmental issues in developing countries
- Rajyashree Narayanareddy, Ph.D., Minnesota, 2011, Assistant Professor* — geographies of waste and labour, urban political ecology, global urbanism, cities of the global South, South Asia
- Andrea Olive, Ph.D., Purdue, 2009, Associate Professor* — environmental policy, conservation, private property, Arctic politics, indigenous politics, Canada-US relations
- Trevor Porter, Ph.D., Carleton, 2012, Assistant Professor* — paleoenvironments; climate change; stable isotope geochemistry and dendrochronology
- Scott Prudham, Ph.D., Berkeley, 1999, Professor* — natural resources, environment and society, political economy, political ecology, biotechnology, history and political economy of scientific and industrial forestry, critical theory and/of nature
- Katharine N. Rankin, Ph.D., Cornell, 1999, Professor* — gender and development, culture-economy articulations, market regulation, ethnographic models, planning theory, Southeast Asia
- Susan Ruddick, Ph.D., UCLA, 1992, Professor* — social theory, philosophy and geography, space and power, social construction of childhood, child rights and policy, social exclusion, governance and citizenship, conflicts in public space, the public sphere
- Rachel Silvey, Ph.D., Washington, 1997, Professor* — migration and immigration, Indonesia, feminist theory, critical development studies, Islam and the politics of transnationalism, gender/religion/difference, South East Asia (Indonesia)
- Matti Siemiatycki, Ph.D., British Columbia, 2006, Associate Professor* — transportation policy and planning, infrastructure finance and delivery, community and regional planning
- Neera Singh, Ph.D., Michigan State, 2009, Assistant Professor* — environmental conservation and development, community forestry, forest tenure and forest governance, environmental behavior and subjectivity
- Tat Smith, Ph.D., University of Maine, 1984, Professor* — forest ecology and soils, carbon cycling in forest ecosystems, bioenergy from sustainable forestry
- Andre Sorensen, Ph.D., London, 1998, Professor* — urban planning, land use change, Japan, citizen’s movements, property rights, institutionalism
- Sarah Wakefield, Ph.D., McMaster, 2002, Associate Professor* — environmental health, civic participation in environmental management, and urban food security, community-based research
- Alan Walks, Ph.D., Toronto, 2004, Associate Professor* — urban social and political geography, electoral geography, social polarization, housing policy, politics of planning
- Mathew G. Wells, Ph.D., Australian National University, 2001, Associate Professor* — environmental fluid dynamics, turbulence modeling, mixing and dispersion of nutrients and larvae
- Michael Widener, Ph.D., SUNY – Buffalo, 2012, Assistant Professor* — access to healthy food and healthcare facilities; Health and transportation geographies; GIS, agent-based modelling, and spatial optimization
- Kathi Wilson, Ph.D., Queens, 2000, Professor* — health geography and First Nations studies
- Jun Zhang, Ph.D., Minnesota, 2007, Assistant Professor* — urban and regional economic development, geographic theorizing of markets, states, and institutions, geography of innovation and entrepreneurship

EMERITI FACULTY:

- Larry S. Bourne, Ph.D., Chicago, 1966, Professor Emeritus* — urban systems, urban spatial structure, housing, social and spatial inequalities
- John N. H. Britton, Ph.D., London, 1966, Professor Emeritus* — industrial development and technological policy
- Rorke Bryan, Ph.D., Sheffield, 1967, Professor Emeritus* — experimental geomorphology, soil conservation, arid lands development
- Michael Bunce, Ph.D., Sheffield, 1970, Associate Professor Emeritus* — agricultural change in urban regions, rural settlement, rural planning and policy, cultural/environmental production and construction of countryside, sustainable development in small island states
- Ian Burton, Ph.D., Chicago, 1962, Professor Emeritus* — environmental hazards, perception and decision-making in resource management
- Anthony M. Davis, Ph.D., Wisconsin, 1975, Associate Professor Emeritus* — biogeography, palynology/paleoecology
- Jock H. Galloway, Ph.D., London, 1965, Professor Emeritus* — Latin America, historical geography of Brazil, sugar industry
- Gordon Gracie, Ph.D. Illinois, 1963, Professor Emeritus* — photogrammetric mapping, analytical photogrammetry, survey analysis
- Brian Greenwood, Ph.D., Bristol, 1970, Professor Emeritus* — coastal geomorphology, nearshore hydrodynamics and sedimentation, morphodynamics
- A.P. Lino Grima, Ph.D., Toronto, 1970, Associate Professor Emeritus* — environmental management, public participation
- Reiner Jaakson, Ph.D., Waterloo, 1972, Professor Emeritus* — recreation, survey methods, ecotourism
- Thomas F. McIlwraith, Ph.D., Wisconsin, 1973, Professor Emeritus* — Ontario landscape, nineteenth-century technology and transport, heritage conservation
- D. Scott Munro, Ph.D., McMaster, 1975, Professor Emeritus* — microclimatology, hydroclimatology, surface and basin climatology of glaciers, hydrometeorological modeling, remote sensing, energy exchange processes
- Anthony G. Price, Ph.D., McGill, 1975, Associate Professor Emeritus* — hydrology, forest soils; the Boreal forest of the Canadian Shield; montane forests in subtropical N.E. Mexico

Edward C. Relph, Ph.D., Toronto, 1973, Professor Emeritus — place and humanistic geographies
Vincent B. Robinson, Ph.D., Kent State, 1978, Associate Professor — geographic information science, ecological modeling, spatial analysis
Shoukry T. Roweis, Ph.D., M.I.T., 1973, Professor Emeritus — urban planning and political processes
James W. Simmons, Ph.D. Chicago, 1964, Professor Emeritus — Canadian urban system, growth and policy
Alan Waterhouse, Ph.D. Berlin, 1968, Professor Emeritus — urban design, urban planning policies

UNIVERSITY OF WATERLOO

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL MANAGEMENT

DATE FOUNDED: 1962

GRADUATE PROGRAM FOUNDED: 1964

DEGREES OFFERED: B.E.S., M.A., M.A.-Water, M.E.S., M.E.S.-Water, M.Sc., M.Sc.-Water, M.C.C., C.R.M.-GDip and Ph.D., PhD-Water

GRANTED 9/1/16-8/31/17: 139 Bachelors, 46 Masters, 7 Ph.D.

STUDENTS IN RESIDENCE: 622 Bachelors; 107 Masters, 62 Ph.D.

NOT IN RESIDENCE: 6 Masters, 3 Ph.D.

CHAIR: Richard Kelly

DEPARTMENT ADMINISTRATIVE MANAGER: Susie Castela

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Associate Chair Undergraduate Studies, Geography Program: Dr. Johanna Wandel. E-mail: jwandel@uwaterloo.ca or *Associate Chair Undergraduate Studies, Aviation and Geomatics Programs:* Dr. Ian McKenzie. E-mail: mckenzie@uwaterloo.ca or *Associate Chair Graduate Studies:* Dr. Christopher Fletcher. E-mail: chris.fletcher@uwaterloo.ca or *Director, Master of Climate Change Program:* Dr. Daniel Scott. E-mail: daniel.scott@uwaterloo.ca Department of Geography and Environmental Management, University of Waterloo, 200 University Avenue West, Waterloo, Ontario, Canada N2L 3G1. Telephone (519) 888-4567, ext. 32433. E-mail: geogchair@uwaterloo.ca Internet: <https://uwaterloo.ca/geography-environmental-management/>

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE: The Department of Geography and Environmental Management, one of five academic units in the Faculty of Environment, offers programs leading to the Bachelor of Environmental Studies (B.E.S.) degree. In addition to the Geography and Environmental Management plan are two additional degree plans. A B.E.S. degree in Geomatics and a B.E.S. degree in Geography and Aviation. The Geomatics Plan builds on the strength of the University of Waterloo expertise in GIS, Remote Sensing, Computer Science, Geodesy and Surveying. The Geography and Aviation Plan couples the BES degree with flight training and leads to a Commercial Pilot Licence. Similar aviation programs offered in the Faculty of Science (Physics and Earth Sciences) incorporate seven Geography courses as program core. In all cases, students become members of the Department in their first year of study. The Honours Co-op Geography and Environmental Management and Geomatics plans provides for alternate terms of practical work experience and academic study. Students may be admitted to the Co-op Plan in the first or second year. In addition to completing the regular series of undergraduate courses, students must complete four work terms. Co-operative Education and Career Services assist students with placement for work terms during which they receive remuneration

from their employers. The Honours Regular Geography and Environmental Management Plan is broad in scope, but students may concentrate their courses in one or more of the major areas of specialization: Climate Change and Environment; Earth System Science; Geomatics; Economy and Society. Students may also develop Joint Honours Plans to suit their particular interests. The three-year General Geography and Environmental Management Plan provides a liberal education in environmental studies, with less specialization in Geography than in the Honours Plans.

Through the Mapping, Analysis and Design unit of the Faculty, the Department offers excellent computing facilities, particularly for geographic information systems and remote sensing. Commercial GIS and remote sensing software are used in teaching and for project work. The eight computer labs are open 24 hours a day, and a Help Desk is available during regular working hours. There are laboratories for undergraduate studies in geomorphology, hydrology and ecology. Field courses are offered in Canada and overseas.

GRADUATE: In co-operation with the Department of Geography and Environmental Studies at Wilfrid Laurier University, located less than 1 km away, the Department operates the Waterloo-Laurier Graduate Program in Geography. Full details of the program are shown in an adjacent section of this guide and also at: <http://geograd.uwaterloo.ca/>. The numbers of Masters and Ph.D. students shown at the start of this submission are for those students who are registered at the University of Waterloo. The total number of students registered in the joint program is 124 Masters, 90 Ph.D. in residence and 8 Masters, 5 Ph.D. not in residence. The Department of Geography and Environmental Management offers programs (not operated under the Waterloo-Laurier joint program) in Climate Change, the Master of Climate Change (MCC) and a new (effective Fall 2018) online Graduate Diploma (GDip) in Climate Risk Management (CRM). The total number of students registered in the MCC program is 19 in residence and 2 not in residence. Full details of the programs can be found at <https://uwaterloo.ca/geography-environmental-management/graduate/climate-change>

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: *Academic Plan:* 3 terms (September-December, January-April, May-August). *Admission Requirements:* Information for applicants from the Ontario secondary school system and other provinces in Canada can be found at <https://uwaterloo.ca/find-out-more/admissions>

The university encourages applications from international students. Further information can be found at <http://www.international.uwaterloo.ca/>.

GRADUATE: Full details are shown in an adjacent section of this guide and also at: <https://uwaterloo.ca/geography-environmental-management/graduate>

FACULTY:

Jean Andrey, Ph.D., Waterloo, 1989, Professor — transportation, climatic hazards
Sarah Burch, Ph.D., British Columbia, 2009, Associate Professor — governing responses to climate change (both adaptation and mitigation) in urban spaces
Daniel Cockayne, Ph.D., Kentucky, 2016, Assistant Professor — cultural geography, critical human geography, economic geography, entrepreneurialism and startup economies, feminist geography, queer geography and sexuality
Peter Deadman, Ph.D., Arizona, 1997, Associate Professor — GIS, resource and environmental management
Brent Doberstein, Ph.D., British Columbia, 2001, Associate Professor — resource and environmental management, international development, environmental impact assessment, hazards

- Christine Dow, Ph.D., Swansea, 2014, Assistant Professor* — Ph.D., numerical modeling, glacial hydrology, ice dynamics, glaciology data collection
- Claude Duguay, Ph.D., Waterloo, 1989, Professor* — climate impacts on the cryosphere, numerical modelling and remote sensing of lake ice, climate-lake interactions
- Susan Elliott, Ph.D., McMaster University, 1992, Professor* — environment and health, health geography, environmental science, urban social geography and planning, research methods
- Christopher Fletcher, Ph.D., London, 2005, Associate Professor* — using numerical models to investigate large-scale climate processes and climate change
- Peter Johnson, Ph.D., McGill, 2010, Associate Professor* — application and evaluation of geospatial technologies, especially agent-based models (ABM), geographic information systems (GIS), and the Geospatial Web 2.0 (Geoweb), for decision support systems
- Suzanne Kearns, Ph.D., Capella, 2007, Associate Professor* — aviation human factors and pilot training, educational theory related to aviation, including the shift towards competency-based education practices and the impact of e-learning in aviation
- Richard Kelly, Ph.D., Bristol, 1995, Professor* — remote sensing of global snow water equivalent from passive microwave measurements, global change of the cryosphere
- Ellsworth LeDrew, Ph.D., Colorado, 1976, University Professor* — climatology, remote sensing
- Yuri Leonenko, Ph.D., Novosibirsk, 1991, Associate Professor* — development of Climate Control technologies with an emphasis on Carbon Capture and Storage; modeling and numerical simulation of multiphase flow in porous media, fractures and faults; interactions between CO₂ and reservoir fluids; novel technologies for in situ and ex situ dissolution of CO₂, risk and economic assessments
- Jonathan Li, Ph.D., Cape Town, 2000, Professor* — satellite remote sensing and urban mapping, intelligent object extraction algorithms, digital terrain modeling and analysis, wireless sensor networks and spatial sensor web, environmental modeling and visualization, WebGIS for disaster management, mobile mapping systems and ubiquitous mapping
- Merrin Macrae, Ph.D., Wilfrid Laurier, 2003, Associate Professor* — hydrology and chemistry of agricultural runoff, biogeochemical processes in riparian wetlands, effects of disturbance on wetland hydrology and chemistry
- McKenzie, Ian, Ph.D., Western, 1988, Adjunct Associate Professor & Associate Chair Undergraduate* — Aviation and Geomatics Programs
- Clare Mitchell, Ph.D., Waterloo, 1986, Associate Professor* — rural, local economic development, retail
- Sanjay Nepal, Ph.D., Switzerland, 1999, Professor* — biodiversity conservation and tourism, tourism impacts on the environment, community participation, and local level development through tourism
- Erin O'Connell, Ph.D., Waterloo, 2013, Lecturer* — post-disaster vulnerability reduction and building sustainable and resilient capacities in disaster-affected communities; emphasis on community-based disaster recovery and reconstruction in Asia; environmental studies, examining the human interactions with the natural world
- Paul K. Parker, Ph.D., London, 1990, Professor* — resources, local economic development, energy, Japan and Pacific economy
- Richard Petrone, Ph.D., Waterloo, 2002, Professor* — wetland hydrology and climatology, wetland restoration, land-use change and agriculture
- Jonathan S. Price, Ph.D., McMaster, 1988, Professor* — hydrology, wetlands
- Derek Robinson, Ph.D., Michigan 2009, Associate Professor* — Center of land use, land management, and the carbon cycle, agent-based modelling as an approach to integrate GIS, ecological, and human decision-making models to evaluate socio-economic contexts and policy scenarios on changes to land use and land cover, ecological function and the provision of ecosystem services, and human well-being.
- Daniel Scott, Ph.D., York, 1998, Professor* — climate change, tourism and recreation, protected areas, resource and environmental management
- Steffanie Scott, Ph.D., British Columbia, 2002, Associate Professor* — global and regional development processes, gender and ethnicity
- Mike Stone, Ph.D., Waterloo, 1992, Professor* — environmental planning, water quality, sediment/water interactions, water resources management
- Maria Strack, Ph.D., McMaster, 2006, Associate Professor* — interactions between ecology, hydrology, biogeochemistry and soil properties in wetland ecosystems
- Su-Yin Tan, Ph.D., Cambridge, 2008, Lecturer* — geographic information systems (GIS), remote sensing, spatial statistics, ecosystem modelling and environmental monitoring, public health and medical geography applications, climate change
- Tara Vinodrai, Ph.D., Toronto, 2005, Associate Professor* — economic geography, urban and regional economic development and policy, creative and cultural economy of cities, labour market dynamics and workforce development, design, innovation and technological change
- Johanna Wandel, Ph.D., Guelph, 2006, Associate Professor* — vulnerability, community based assessment, adaptation and climate change
- Nancy Worth, Ph.D., Leeds, 2010, Assistant Professor* — economic geography, social geography, feminist geography, social justice, identities and belonging

FACULTY CROSS-APPOINTED FROM OTHER DEPARTMENTS:

- Derek Armitage, Ph.D., Waterloo, 2002, Associate Professor* — community-based resource management, conservation and development, political ecology, Canada's North and Indonesia
- James Craig, Ph.D., Buffalo, 2005, Associate Professor* — development of improved numerical and analytical methods for modeling groundwater, surface water, subsurface contaminant transport and the surface water / groundwater interface
- Charmaine Dean, Ph.D., Waterloo, 1988, Professor* — development of methodology for disease mapping, longitudinal studies, the design of clinical trials, and spatio-temporal analyses; motivated by direct applications to important practical problems in biostatistics and ecology; current main research applications are in survival after coronary artery bypass surgery, mapping disease and mortality rates, forest ecology, fire management, smoke exposure estimation from satellite imagery, and modeling of temporary and intermittent stream flow for flood analysis and predictions
- Rob Feick, Ph.D., Waterloo, 2000, Professor* — GIS, multi-criteria methods for land management, spatial decision support systems, public facility systems
- Bruce Frayne, Ph.D., Queen's, 2001, Associate Professor* — sustainable cities, encompassing the three related areas of human migration, urbanization and food security
- Brad Fedy, Ph.D., British Columbia, 2006, Assistant Professor* — examines factors that influence fitness of animal populations at multiple scales - from genes to landscapes
- Heather Hall, Ph.D. Queen's, 2012, Assistant Professor* — Circumpolar Innovation- a network that supports research and teaching on commercially viable scientific and technological innovations that will support Northern families, communities and societies; On the Move Partnership- nickel processing component exploring the impacts of labour mobility on source and host communities as well as the respective responses by companies, unions, local and provincial policymakers, community organizations and other organizations; the On the Move Partnership: Employment-Related Geographical Mobility in the Canadian Context is a project of the SafetyNet Centre for Occupational Health & Safety Research at Memorial University

Keith Hipel, Ph.D., Waterloo, 1975, Professor — the development and application of conflict resolution, multiple objective decision making and time series analysis techniques from a systems design engineering perspective. The main application areas of these decision technologies are water resources management, hydrology, environmental engineering and sustainable development.

Ed Jernigan, Ph.D., MIT, 1975, Professor — Perception in the broadest sense, in particular vision and image processing, pattern recognition, non-linear and adaptive systems; More generally, systems thinking and design as knowledge integration

Haiying Lin, Ph.D., George Mason, 2010, Assistant Professor — cross-sector partnership for complex environmental issues, strategic alliances for sustainability, corporate sustainability strategy, voluntary environmental programs, stakeholder involvement in environmental governance, and corporate sustainability in the emerging economies

John McLevey, Ph.D., McMaster, 2013, Assistant Professor — social network analysis, science and public policy, sociology of education, environmental sociology, computational social science, information science, research methods

Teferi Mergo, Ph.D., UC Berkeley, 2013, Assistant Professor — development economics, and draw on methods popularized by labour and demographic economists

Markus Moos, Ph.D., British Columbia, 2012, Associate Professor — economy and social structure of cities, generational change and cities, youthification of cities, urban housing markets, residential location and commute patterns, sustainability policy and social justice in cities

Stephen Quilley, Ph.D., Manchester, 1996, Associate Professor — historical sociology of Norbert Elias and urban regeneration, to the long term dynamics of human ecology, policy-related projects relating to sustainability, urban regeneration, food systems, resilience and social-ecological innovation

Vanessa Schweizer, Ph.D., Carnegie Mellon, 2010, Assistant Professor — collective decision making

Larry Swatuk, Ph.D., Dalhousie, 1993, Associate Professor — environmental and natural resource governance and management with a specific focus on water resources, focus on the unintended negative consequences of climate change adaptation and mitigation interventions

Jason Thistlethwaite, Ph.D., Waterloo, 2011, Assistant Professor — climate change governance, private governance, corporate social responsibility, insurance, risk management

UNIVERSITY OF WESTERN ONTARIO

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1938

GRADUATE PROGRAM FOUNDED: 1946

DEGREES OFFERED: BA, BSc, MA, MSc, PhD

GRANTED 9/1/16-8/31/17: 19 Bachelors, 20 Honors

(Total), 20 Masters, 6 PhD

STUDENTS IN RESIDENCE: 71 (4-Yr B.A.), 9 (3-Yr BA), 69 Honors, 23 Masters, 38 PhD

CHAIR: James Voogt, PhD

DEPARTMENT ADMINISTRATIVE OFFICER: Lelanya Milley

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Graduate Administrator, Department of Geography, Western University, London, Ontario N6A 5C2—Telephone: (519) 661-2111, ext. 85033—Fax: (519) 661-3750 Email: ljohns24@uwo.ca Web Page: <http://www.geography.uwo.ca>

PROGRAMS AND RESEARCH FACILITIES:

The departmental strategic focus is on a theme of “Urban Environments” encompassing the following fields.

Degree Programs (MA, MSc and PhD): The programs emphasize training in research leading to Masters or PhD theses. Students select from a wide range of graduate courses that provide them with the necessary background knowledge and skills for their proposed research and subsequent employment. All students take a seminar course in geographical theory, and in research design and communication. Both Masters and PhD students complete an approved research proposal prior to registering for the thesis. PhD students must also pass a comprehensive examination. All theses go through an oral defense prior to final acceptance. Students are encouraged to publish their research and to present at conferences. There are four major fields of study.

Physical Geography: Studies of urban surface processes in hydrology, geomorphology, climatology, river ecology and environmental change using instrumented field sites, laboratory models, terrain analysis, remote sensing and GIS. Current projects include studies of the urban heat island, water quality in rivers, and fluvial sediment mobilization. Environmental change studies include: paleo environmental reconstructions using paleolimnology and the response of river and vegetation systems to environmental change, and modified climates in urban areas.

Geographic Information Science (GIS): Theoretical and applied studies of geographic information systems (GIS), remote sensing and cartography. Application of GIS to: urban land use, locational analysis, glacier dynamics, and landscape. Applications of remote sensing to resource management, cartography, and earth surface processes (e.g. urban forest cover, river channel form, and urban surface temperatures).

Urban Studies: Urban Studies research focuses on phenomenon and societal issues in the context of cities. The research topics include urban development, urban land and real estate economics, urban morphology, planning, housing, health, history, culture and geomatics. Current projects include research on: decline in the downtown quaternary functions in North American cities; spatial demographics of educational demand; urban environmental influences on childhood obesity; geographic studies of paediatric trauma; urban forms for seniors' independence and mobility; property acquisition and social mobility; spatial patterning of urban crime; geographies of personal networks; urban demographics and housing choices; uncertainty and household mobility; and regional economic development.

Environment, Development and Health: Within this cluster, “environment” is defined in the broadest sense, including aspects of both physical and social environments. Research on the health geography of Canada includes work on environmental hazards and risk perception, environmental inequity, energy justice, health effects of air pollution, and childhood obesity and urban form. Research in international contexts, with regional specialization in Africa and the Caribbean, is examining peasant agriculture, food security and nutrition, HIV-AIDS, and the connections between gender, migration and development. Faculty members in this cluster are also involved in research on food, energy and water resources, climate change, and other aspects of environmental policy and management.

COLLABORATIVE PROGRAMS:

MA, MSc and PhD programs in Geography (Environment and Sustainability) are offered in conjunction with departments in the Faculty of Science and Faculty of Engineering.

MA and PhD programs in Geography (Migration and Ethnic Relations) are offered in conjunction with Departments in the Faculties of Social Science, and Arts and Humanities.

MSc and PhD programs in Geography (Planetary Science and Exploration) are offered in conjunction with the Centre for Planetary Space and Exploration.

MA, MSc and PhD programs in Geography (Global Health Systems in Africa) are offered in conjunction with the Global Health Systems in Africa Program.

RESEARCH FACILITIES: Depending on their area of interest and research needs, graduate students can access a range of biophysical, urban, health and general computing lab facilities. The Department has excellent infrastructure for the measurement, simulation and analysis of environmental processes and paleo environments. In addition, electronic surveying equipment (motorized and conventional total stations, high resolution differential GPS, electronic level) complement image-based (remote sensing and digital photogrammetry) terrain acquisition and analysis software. Computing areas are available for all students. Study space is provided for each graduate student. See the web page for more information about research labs and support.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Master's applicants must have either an Honors Bachelor's degree or equivalent in Geography or a cognate discipline, generally with at least a B+ average from a recognized university and have completed course work to the satisfaction of the department. PhD applicants who hold a Master's degree or equivalent are accepted at the discretion of the department. Financial aid is available to qualified students through university scholarships, teaching assistantships, conference awards, and scholarships from outside agencies. Email the Graduate Administrator for more information.

FACULTY:

Godwin Arku, Ph.D., McMaster, 2005, Associate Professor — urban development
Peter E. Ashmore, Ph.D., Alberta, 1985, Professor — fluvial geomorphology
Bipasha Baruah, Ph.D., York, 2005, Professor (cross with Women's Studies) — women and global issues; Canada Research Chair
Jamie Baxter, Ph.D., McMaster, 1997, Professor — hazards and health geography
Brian Branfireun, Ph.D., McGill 2000, Professor (cross with Biology) — ecohydrology, biogeochemistry, wetlands; Canada Research Chair
Michael Buzzelli, Ph.D., McMaster, 2001, Associate Professor — GIS, housing, urban, environmental and social determinants of health
Irena Creed, Ph.D., Toronto, 1998, Professor (cross with Biology) — watershed biogeochemistry, Canada Research Chair
Jason Gilliland, Ph.D., McGill University, 2001, Professor — urban development, children's health
Jeffrey S.P. Hopkins, Ph.D., McGill, 1992, Associate Professor — cultural, human
Carol Hunsberger, Ph.D., Carleton, 2012, Assistant Professor — political ecology, biofuels, East Africa, energy justice
Fred Longstaffe, Ph.D., McMaster, 1978, Distinguished Professor (cross with Earth Science) — stable isotope science; Canada Research Chair
Isaac Luginaah, Ph.D., McMaster, 2002, Professor — medical, environment health relationships; Canada Research Chair
Jacek Malczewski, Ph.D., Poland, 1987, Professor — economic
Diana Mok, Ph.D., Toronto, 2002, Associate Professor (cross with DAN Department of Management & Organizational Studies) — urban economies, real estate economics, GIS and quantitative methods
Desmond Moser, Ph.D., Queens 1993, Associate Professor (joint with Earth Sciences) — tectonics, geochronology
Katrina Moser, Ph.D., McMaster, 1997, Associate Professor — geology, paleolimnology, biogeography

Chantelle Richmond, Ph.D., McGill, 2007, Associate Professor, CIHR Early Researcher — aboriginal health, environmental health
Dan Shrubsole, Ph.D., Waterloo, 1989, Professor — resources management
C. Christopher Smart, Ph.D., McMaster, 1983, Professor — hydrology, geomorphology
L. Graham Smith, Ph.D., Waterloo, 1982, Associate Professor — resources management
James A. Voogt, Ph.D., British Columbia, 1995, Associate Professor — urban climatology
Jinfei Wang, Ph.D., Waterloo, 1988, Professor — spatial analysis, GIS
Anthony Weis, Ph.D., Queen's, 2003, Associate Professor — international development policy and practice
Adam Yates, Ph.D., Western, 2009, Assistant Professor — aquatic ecosystems, ecological assessments

WATERLOO-LAURIER GRADUATE PROGRAM IN GEOGRAPHY

**DEPARTMENTS OF GEOGRAPHY
UNIVERSITY OF WATERLOO AND WILFRID
LAURIER UNIVERSITY**

DATE FOUNDED: 1992

DEGREES OFFERED: M.A., M.E.S., MSc., Ph.D.

GRANTED 9/1/16-8/31/17: 36 Masters, 12 Ph.D.

STUDENTS IN RESIDENCE: 124 Masters, 90 Ph.D.

NOT IN RESIDENCE: 8 Masters, 5 Ph.D.

DIRECTOR: Dr. Steven Roberts, Wilfrid Laurier University

GRADUATE PROGRAM ADMINISTRATOR: Jennifer Drowns, Wilfrid Laurier University

FOR FURTHER INFORMATION WRITE TO: The Director's Office, Wilfrid Laurier University, 75 University Avenue West Waterloo, ON, N2L 3C5 Telephone (519) 884-0710 ext. 2325, jdrowns@wlu.ca Internet: <http://geograd.uwaterloo.ca/>

PROGRAMS AND RESEARCH FACILITIES OF THE WATERLOO-LAURIER GRADUATE PROGRAM IN GEOGRAPHY: The departments of geography at the University of Waterloo and Wilfrid Laurier University jointly offer graduate work in Geography. The Waterloo-Laurier Graduate Program in Geography is responsible for admissions, for the program of instruction and for the naming of students supervisory committees. Students register at either the University of Waterloo or Wilfrid Laurier University (depending on where the supervisor is located), but will undertake coursework at both universities. Students in the program are governed by the general regulations of the university in which they are registered and their degree is granted by that university. The fields of research specialization in which the program offers training and research guidance at the Masters and Doctoral levels are: (1) environmental and resource management, (2) environmental science, (3) human geography, (4) geomatics. For graduates from a four-year honours program (or equivalent) in Geography, there are two routes for the MSc/M.A./M.E.S. - (1) the Thesis MSc/M.A./M.E.S. and (2) the Research Paper M.A./M.E.S. Requirements for the Thesis MSc/M.A./M.E.S. are five graduate courses and a thesis. Requirements for the Research Paper M.A./M.E.S. are eight graduate courses and a research paper. For the Ph.D. (after the M.A./M.E.S./MSc. degree), course requirements vary with the background and needs of the candidate. A dissertation is mandatory. Under special circumstances, a M.A./M.E.S./MSc. candidate may transfer to the Ph.D. program without completing a thesis.

Excellent cartographic, photo interpretation, remote sensing, GIS, and computer facilities are available to students in the Joint Program. Graduate student research can sometimes be assisted in financial and other ways by the following University of Waterloo and Wilfrid Laurier research centres and laboratories: Cold Regions Research Centre, Heritage Resources Centre, Wetlands Research Centre, Canadian Water Network Laboratory, Quaternary Sciences Institute, and the Waterloo Laboratory for Earth Observations.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Academic Plan: 3 terms (September-December, January-April, May-August). **Admission Requirements - M.A.:** B standing (75%) in four-year honours B.A./BES/BSc program or equivalent. **Ph.D.:** Must possess M.A. (or equivalent) and first-class standing. **Financial Aid:** Both departments guarantee a minimum level of funding through Teaching Assistantships (offered from September-April) and university scholarships which range in value from \$1,500 to \$7,000. In addition, exceptional students can expect additional scholarships and/or Research Assistantships through faculty research grants.

FACULTY IN THE GEOGRAPHY GRADUATE PROGRAM:

Jean Andrey, Ph.D., Waterloo, 1989, Professor — transportation, climatic hazards
Judy Bates, Ph.D., York, 1997, Associate Professor — local labour markets, gender, self-employment
Alison Blay-Palmer, Ph.D., Waterloo, 2003, Associate Professor — sustainable food systems, multi-scaled economic development, Cuban organic agriculture, globalization
Sarah Burch, Ph.D., British Columbia, 2009, Assistant Professor — governing responses to climate change (both adaptation and mitigation) in urban spaces
Mary-Louise Byrne, Ph.D., McMaster, 1991, Professor — coastal geomorphology, physical geography
Daniel Cockayne, Ph.D., Kentucky, 2016, Assistant Professor — cultural geography, critical human geography, economic geography, entrepreneurialism and startup economies, feminist geography, queer geography and sexuality
Jonathan Crush, Ph.D., Queen's, 1984, Professor — Environment and resources, hungry cities partnership
Simon Dalby, Ph.D., Simon Fraser, 1988, Professor — Conflict and security, environment and resources, multilateral institutions
Peter Deadman, Ph.D., Arizona, 1997, Associate Professor — GIS, resource and environmental management
Brent Doberstein, Ph.D., British Columbia, 2001, Associate Professor — resource and environmental management, international development, environmental impact assessment, hazards
Sean Doherty, Ph.D., Toronto, 1998, Professor — urban transportation geography GIS, energy efficiency
Christine Dow, Ph.D., Swansea, 2014, Assistant Professor — numerical modeling, glacial hydrology, ice dynamics, glaciology data collection
Claude Duguay, Ph.D., Waterloo, 1989, Professor — remote Sensing, Modeling, cryosphere, lakes
Susan Elliott, Ph.D., 1992, McMaster University, 1992, Professor — environment and health, health geography, environmental science, urban social geography and planning, research methods
Michael C. English, Ph.D., McGill, 1985, Professor — sub-Arctic delta hydrology and geomorphology, watershed hydrology and chemistry
Christopher Fletcher, Ph.D., 2005, University College London, Assistant Professor — large-scale climate dynamics and teleconnections, seasonal-to-decadal climate prediction, land-ocean-atmosphere interaction
James Hamilton, Ph.D., McMaster, 1996, Associate Professor — climate change and paleoclimatology, hydrology and geomorphology of karst terrains in cold regions
Michael Imort, Ph.D., Queen's, 2000, Associate Professor — cultural-historical geography and environmental history

Peter Johnson, Ph.D., McGill, 2010, Assistant Professor — application and evaluation of geospatial technologies, especially agent-based models (ABM), geographic information systems (GIS), and the Geospatial Web 2.0 (Geoweb), for decision support systems

Suzanne Kearns, Ph.D., Capella, 2007, Associate Professor — aviation human factors and pilot training, educational theory related to aviation, including the shift towards competency-based education practices and the impact of e-learning in aviation

Richard Kelly, Ph.D., Bristol, 1995, Professor — remote sensing of global snow water equivalent from passive microwave measurements, global change of the cryosphere

Ellsworth LeDrew, Ph.D., Colorado, 1976, University Professor — climatology, remote sensing

Christopher Lemieux, Ph.D., Waterloo, 2008, Assistant Professor — policy alternatives and choices, climate change and Canadian identity

Yuri Leonenko, Ph.D., Novosibirsk, 1991, Associate Professor — development of climate control technologies with an emphasis on carbon capture and storage; modeling and numerical simulation of multiphase flow in porous media, fractures and faults; interactions between CO₂ and reservoir fluids; novel technologies for in situ and ex situ dissolution of CO₂, risk and economic assessments

Jonathan Li, Ph.D., Cape Town, 2000, Professor — satellite remote sensing and urban mapping, intelligent object extraction algorithms, digital terrain modeling and analysis, wireless sensor networks and spatial sensor web, environmental modeling and visualization, WebGIS for disaster management, mobile mapping systems and ubiquitous mapping

Merrin Macrae, Ph.D., Wilfrid Laurier, 2003, Associate Professor — biogeochemical cycling in natural and impacted systems under variable climatic regimes

Philip Marsh, Ph.D., McMaster, 1983, Professor — hydrology of Arctic Canada with a focus on the effects of snow, ice, permafrost on the hydrology of key northern ecosystems

McKenzie, Ian, Ph.D., Western, 1988, Adjunct Associate Professor & Associate Chair Undergraduate — Aviation and Geomatics Programs

Robert McLeman, PhD, Guelph, 2005, Associate Professor — human dimensions of environmental change

Robert Milne, Ph.D., Wilfrid Laurier, 2003, Associate Professor — landscape ecology, environmental monitoring, ecotourism

Clare Mitchell, Ph.D., Waterloo, 1986, Associate Professor — rural, local economic development, retail

Alison Mountz, Ph.D., British Columbia, 2003, Professor — Migration and political geography, struggles over border enforcement, asylum, and detention.

Sanjay K. Nepal, Ph.D. Bern, 1999, Professor — exploring the links between biodiversity conservation and tourism, particularly in areas of resolving conflicts between wildlife agencies and local communities, tourism impacts on the environment (in parks and protected areas, and remote communities), community participation, and local level development through tourism; current research focus is in Nepal, Thailand and Western Canada
Erin O'Connell, Ph.D., Waterloo, 2013, Lecturer — post-disaster vulnerability reduction and building sustainable and resilient capacities in disaster-affected communities; emphasis on community-based disaster recovery and reconstruction in Asia; environmental studies, examining the human interactions with the natural world

Paul K. Parker, Ph.D., London, 1990, Professor — resources, local economic development, energy, Japan and Pacific economy

Richard Petrone, Ph.D., Waterloo, 2002, Professor — wetland hydrology and climatology, wetland restoration, land-use change and agriculture

Jonathan S. Price, Ph.D., McMaster, 1988, Professor — hydrology, wetlands

Bill Quinton, Ph.D., Saskatchewan, 1997, Associate Professor — Boreal forest hydrology

Steven Roberts, Ph.D., Waterloo, 2003, Associate Professor — spatial optimization and spatial data models

Colin Robertson, Ph.D., Victoria, 2011, Associate Professor — Geographical analysis of dynamic processes, quantitative geography, development and application of methods of spatial and space-time analysis

Derek Robinson, Ph.D., Michigan 2009, Assistant Professor — center of land use, land management, and the carbon cycle; agent-based modelling as an approach to integrate GIS, ecological, and human decision-making models to evaluate socio-economic contexts and policy scenarios on changes to land use and land cover, ecological function and the provision of ecosystem services, and human well-being.

Daniel Scott, Ph.D., York, 1998, Professor — climate change, tourism and recreation, protected areas, resource and environmental management

Steffanie Scott, Ph.D., British Columbia, 2002, Associate Professor — global and regional development processes, gender and ethnicity

Bob G. Sharpe, Ph.D., York, 1990, Associate Professor — social, economic, development, GIS

D. Scott Slocumbe, Ph.D., Waterloo, 1990, Professor — resource and environmental management, systems approaches, sustainability, ecosystem and landscape management and assessment

Micheal Stone, Ph.D., Waterloo, 1992, Professor — environmental planning, water quality, sediment/water interactions, water resources management

Maria Strack, Ph.D., McMaster, 2006, Associate Professor — interactions between ecology, hydrology, biogeochemistry and soil properties in wetland ecosystems

Su-Yin Tan, Ph.D., University of Cambridge, 2008, Lecturer — Geographic information systems (GIS); remote sensing; spatial statistics; ecosystem modelling and environmental monitoring; public health and medical geography applications; climate change

Tara Vinodrai, Ph.D., Toronto, 2005, Associate Professor — economic geography, urban and regional economic development and policy, creative and cultural economy of cities, labour market dynamics and workforce development, design, innovation and technological change

Jason Venkiteswaran, Ph.D., Waterloo, 2009, Assistant Professor — biogeochemical cycling of nutrients and related elements, human- and climate-related disruptions

Margaret Walton-Roberts, Ph.D., British Columbia, 2001, Professor — immigration, population

Johanna Wandel, Ph.D., Guelph, 2006, Associate Professor — vulnerability, community based assessment, adaptation and climate change

Brent Wolfe, Ph.D., Waterloo, 1997, Professor — isotope hydrology and paleohydrology, paleolimnology, climate change

Nancy Worth, Ph.D., Leeds, 2010, Assistant Professor — economic geography, social geography, feminist geography, social justice, identities and belonging

FACULTY CROSS-APPOINTED FROM OTHER DEPARTMENTS:

Derek Armitage, Ph.D., Waterloo, 2002, Associate Professor — community-based resource management, conservation and development, political ecology, Canada's North and Indonesia

Jennifer Baltzer, Ph.D., Toronto, 2005, Associate Professor — functional basis of plant species distributions, forest ecosystems including tropical, temperate and boreal forests

James Craig, Ph.D., Buffalo, 2005, Associate Professor — development of improved numerical and analytical methods for modeling groundwater, surface water, subsurface contaminant transport and the surface water / groundwater interface

Charmaine Dean, Ph.D., Waterloo, 1988, Professor — development of methodology for disease mapping, longitudinal studies, the design of clinical trials, and spatio-temporal analyses; motivated

by direct applications to important practical problems in biostatistics and ecology; current main research applications are in survival after coronary artery bypass surgery, mapping disease and mortality rates, forest ecology, fire management, smoke exposure estimation from satellite imagery, and modeling of temporary and intermittent stream flow for flood analysis and predictions

Rob Feick, Ph.D., Waterloo, 2000, Professor — GIS, multi-criteria methods for land management, spatial decision support systems, public facility systems

Bruce Frayne, Ph.D., Queen's, 2001, Associate Professor — sustainable cities, encompassing the three related areas of human migration, urbanization and food security

Brad Fedy, Ph.D., British Columbia, 2006, Assistant Professor — examines factors that influence fitness of animal populations at multiple scales - from genes to landscapes

Heather Hall, Ph.D. Queen's, 2012, Assistant Professor — Circumpolar Innovation- a network that supports research and teaching on commercially viable scientific and technological innovations that will support Northern families, communities and societies; On the Move Partnership- nickel processing component exploring the impacts of labour mobility on source and host communities as well as the respective responses by companies, unions, local and provincial policymakers, community organizations and other organizations; The On the Move Partnership: Employment-Related Geographical Mobility in the Canadian Context is a project of the SafetyNet Centre for Occupational Health & Safety Research at Memorial University

Keith Hipel, Ph.D., Waterloo, 1975, Professor — the development and application of conflict resolution, multiple objective decision making and time series analysis techniques from a systems design engineering perspective. The main application areas of these decision technologies are water resources management, hydrology, environmental engineering and sustainable development

Ed Jernigan, Ph.D., MIT, 1975, Professor — perception in the broadest sense, in particular vision and image processing, pattern recognition, non-linear and adaptive systems; more generally, systems thinking and design as knowledge integration

Alex Lata, Ph.D., York, 2005, Associate Professor — environmental citizenship; environmental justice; political ecology; Latin American politics; Chile: environment, energy, resources, indigenous peoples

Haiying Lin, Ph.D., George Mason, 2010, Assistant Professor — cross-sector partnership for complex environmental issues, strategic alliances for sustainability, corporate sustainability strategy, voluntary environmental programs, stakeholder involvement in environmental governance, and corporate sustainability in the emerging economies

John McLevey, Ph.D., McMaster, 2013, Assistant Professor — social network analysis, science and public policy, sociology of education, environmental sociology, computational social science, information science, research methods

Teferi Mergo, Ph.D., UC Berkeley, 2013, Assistant Professor — development economics, and draw on methods popularized by labour and demographic economists

Markus Moos, Ph.D., British Columbia, 2012, Associate Professor — economy and social structure of cities, generational change and cities, youthification of cities, urban housing markets, residential location and commute patterns, sustainability policy and social justice in cities

Brenda Murphy, Ph.D., Guelph, 2001, Associate Professor — community vulnerability and capacity in the management of both natural and technological risks and disasters

Stephen Quilley, Ph.D., Manchester, 1996, Associate Professor — historical sociology of Norbert Elias and urban regeneration, to the long term dynamics of human ecology, policy-related projects relating to sustainability, urban regeneration, food systems, resilience and social-ecological innovation

Vanessa Schweizer, Ph.D., Carnegie Mellon, 2010, Assistant Professor — collective decision making
Larry Swatuk, Ph.D., Dalhousie, 1993, Associate Professor — environmental and natural resource governance and management with a specific focus on water resources, focus on the unintended negative consequences of climate change adaptation and mitigation interventions
Jason Thistlethwaite, Ph.D., Waterloo, 2011, Assistant Professor — climate change governance, private governance, corporate social responsibility, insurance, risk management

WILFRID LAURIER UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL STUDIES

DATE FOUNDED: 1960

GRADUATE PROGRAM FOUNDED: 1965

DEGREES OFFERED: BA, BSc, MA, MES, MSc, PhD

GRANTED 06/1/17-12/1/17: 57 Bachelors, 7 Masters, 5 PhD (WLU only)

STUDENTS IN RESIDENCE: 228 Majors, 36 Masters, 29 PhD (WLU only) (for total Masters and PhD numbers, refer to Waterloo-Laurier Graduate Program in Geography section)

CHAIR: Sean Doherty

DEPARTMENT ADMINISTRATIVE ASST: Susan Lankowski

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Undergraduate Officers: Dr. J. Hamilton (Geography) or Dr. M.L. Byrne (Environmental Studies); *Graduate Coordinator:* Dr. M. Walton-Roberts. Department of Geography and Environmental Studies, 75 University Avenue West, Wilfrid Laurier University, Waterloo, Ontario, Canada N2L3C5. Telephone (519) 884-0710, ext. 2160. Fax (519) 725-1342 Internet: <http://www.wlu.ca>

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE: The Department offers a variety of undergraduate programs including four four-year honours BA and four four-year honours BSc programs. Each program promotes breadth within the discipline while allowing student selected specialization. The areas of specialization within the Department are physical geography, resource and environmental management, human geography, environmental science and geomatics. Honours students may participate in the co-op program, which offers work terms in the private or public sector.

GRADUATE: Refer to Waterloo-Laurier Graduate Program in Geography section.

Excellent cartographic, photo interpretation, remote sensing, GIS, and computer facilities are freely available to both graduate and undergraduate students. In addition, the university operates a multidisciplinary Cold Regions Research Centre. Members are currently involved in research in high latitude or mountainous regions and are concerned with topics involving human habitation and resource extraction as well as environmental science. The Centre is well equipped with field equipment and computer facilities. The Centre actively encourages undergraduate and graduate students to become involved in cold regions research, and sponsors a series of research symposiums.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

GRADUATE: Refer to Waterloo-Laurier Graduate Program in Geography section.

FACULTY:

Alison Blay-Palmer, Ph.D., Waterloo, 2003, Associate Professor — sustainable food systems and communities, green economic development
Mary-Louise Byrne, Ph.D., McMaster, 1991, P.Geo., 2004, Professor — coastal geomorphology, physical geography
Johnathan Crush, Ph.D., Queen's, 1983 — human security, migrant movements, environmental and resource stresses including climate change food insecurity, declining biodiversity, and water shortages
Simon Dalby, Ph.D., Simon Fraser, 1988, Professor — anthropocene geopolitics, climate change, environmental security
Sean T. Doherty, Ph.D., Toronto, 1998, Professor — health, physical activity, diabetes, obesity, local food, parks, tourism, Global Positioning Systems
Michael C. English, Ph.D., McGill, 1985, Professor — temperate and Arctic, watershed hydrology and chemistry, sub-Arctic delta hydrology and geomorphology
James Hamilton, Ph.D., McMaster, 1996, Associate Professor — climate change and paleoclimatology, hydrology and geomorphology of Karst terrains in cold regions
Michael Imort, Ph.D., Queen's, 2000, Associate Professor — cultural, historical, symbolic landscapes, landscape and nationalism, environmental history
Christopher Lemieux, Ph.D., Waterloo, 2008, Assistant Professor (limited term) — resource and environmental policy and management, climate change, institutional analysis, sustainability, science-policy interface
Phillip Marsh, Ph.D., 2013, Professor and Canada Research Chair — climate change, hydrology, vegetation, permafrost, remote sensing
Robert McLeman, Ph.D., Guelph, 2005, Associate Professor — environmental migration, climate change adaptation
Alison Mountz, Ph.D., British Columbia, 2003, Associate Professor and Canada Research Chair — political, feminist, urban geography, migration
William L. Quinton, PhD, Saskatchewan, 1997, Associate Professor and Canada Research Chair — hydrology, GIS geochemical cycling, climate change, environmental management
Steven Roberts, Ph.D., Waterloo, 2003, Associate Professor — spatial optimization and spatial data models
Colin Robertson, Ph.D., Victoria, 2011, Assistant Professor — GIS, spatial analysis, animal/human health interface, landscape scale spatial models
Bob G. Sharpe, Ph.D., York, 1990, Associate Professor — social, economic, development, GIS, geographic education
Miguel Sioui, Ph.D. candidate, Assistant Professor — Indigenous knowledges (IKs) in the Americas, environmental management, environmental ethics
D. Scott Slocumbe, Ph.D., Waterloo, 1990, Professor — resource and environmental management, systems approaches, sustainability, ecosystem and integrated management, management assessment
Jason Venkiteswaran, PhD, Waterloo, 2009, Associate Professor — catchment, stream, and lake biogeochemistry, human and climate related disruptions of nutrients and related elements
Margaret Walton-Roberts, Ph.D., British Columbia, 2001, Associate Professor — immigration, ethnicity, South Asian transnational practices
Brent Wolfe, Ph.D., Waterloo, 1997, Professor — past and present hydroecology of northern lake-rich landscapes

YORK UNIVERSITY

GRADUATE PROGRAM IN GEOGRAPHY DEPARTMENT OF GEOGRAPHY, FACULTY OF LIBERAL ARTS & PROFESSIONAL STUDIES

DATE FOUNDED: 1962

GRADUATE PROGRAM FOUNDED: 1967

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.

GRANTED 9/1/16-8/31/17: 15 Masters, 5 Ph.D.

STUDENTS IN RESIDENCE: 263 Majors (Undergraduate),
32 Masters, 36 Ph.D.

GRADUATE DIRECTOR: P. Vandergeest

DEPARTMENT CHAIR: J. Mensah

DEPARTMENT ADMINISTRATIVE ASST: K. Cheema

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Graduate: Peter Vandergeest, Director, Graduate Program in Geography; Undergraduate: Tarmo Rimmel, Director of the Undergraduate Program, Department of Geography, Faculty of Liberal Arts & Professional Studies, York University, 4700 Keele St., Toronto, Ontario, Canada M3J 1P3. Telephone (416) 736-5106 (graduate); (416) 736-5107 (undergraduate). Fax (416) 736-5988. Internet: www.yorku.ca/laps/geog

PROGRAMS AND RESEARCH FACILITIES: The Geography Department offers undergraduate degrees in both the Faculty of Liberal Arts & Professional Studies and the Faculty of Science, and a certificate program in GIS and Remote Sensing. Geography majors intending to pursue a teaching career may apply to co-register in the Faculty of Education in their second year. More than 70 courses are offered by the department each year in a full range of topics leading to either a B.A. or B.Sc. degree. The Department also offers a B.Sc. in Environmental Science. Students can take a 90-credit Bachelor Program or, if grade point average permits, choose from among several 120-credit Honors Bachelor Programs, many of them interdisciplinary in nature, including a Specialized Honors B.A. in Geography & Urban Studies.

GRADUATE: Doctoral research is offered in two fields of specialization: Biophysical Processes and Critical Human Geography. The PhD degree requires 2.5 full courses and comprehensive examinations in preparation for dissertation research. Extensive opportunities for professional development in teaching and research skills are available. Support for fieldwork and research costs, as well as conference attendance is available. MA/MSc candidates choose one of two programs: (a) 2 full course equivalents and a thesis, (b) 3 full course equivalents and a major research paper. Research strengths in Critical Human Geography include: Development Studies; Feminist Geographies; Globalization: Economic Restructuring and Cultural Politics; Labour Geography and Labour Market Regulation; Nationalism, Citizenship, Empire and the State; Political Ecology, Landscape and Socio-Nature; Immigrant Communities, Migration and Transnationalism; and Urban Spaces and Social Issues. In Biophysical Processes research strengths include: Biogeography and Biogeochemistry; Fluvial Geomorphology and Hydrology; Geoinformatics; Northern Environments; and Streams, Wetlands and Watersheds. The Graduate Program in Geography also has close ties with interdisciplinary research units at York: the City Institute; York Centre for Asian Research; the Centre for Research on Latin America and the Caribbean; the Centre for Research on Work and Society; the Centre for Refugee Studies; the Centre of Excellence for Research on Immigration and Settlement; and the Institute for Research and Innovation in Sustainability.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Full year program in the Faculty of Liberal Arts & Professional Studies and Faculty of Science. Information on admission requirements and financial assistance is available from the York University Admissions Office.

GRADUATE: Admission to MA/MSc study requires a recognized Honors degree, or equivalent qualification, with a minimum B (or second class) standing. Doctoral applicants are expected to have completed an MA/MSc by the time they enter the program with a minimum B+ average. Funding packages are offered to all graduate students, based on a combination of teaching assistantships, graduate assistantships and scholarships. Funding is provided to doctoral students for up to 6 years of study, and to Masters students for up to 2 years.

GRADUATE FACULTY:

Alison Bain, Ph.D., Cambridge, 2002, Associate Professor — urban social, urban cultural, and feminist geography; creative city theory and cultural planning; geographies of artistic labour, creative practice, and cultural production; redevelopment and social inclusion in neighbourhoods, cities and suburbs; public space contestations and interventions; gender and sexual identity politics

Ranu Basu, Ph.D., University of Toronto, 2002, Associate Professor — urban social and political geography/planning; theories of collective action and community organization; inequality and social justice; geographies of public education; geographic information systems (GIS) in the social sciences

Richard Bello, Ph.D., McMaster, 1983, Associate Professor — climate of northern environments; response of the hydrological cycle and carbon budget to global warming

Kean Birch, Ph.D., Oxford Brookes, 2007, Assistant Professor — economic geography; regional socio-economic development; European regional policy; knowledge economies; the emerging bioeconomy; varieties of neoliberalism and neoliberal restructuring; marketization through public-private partnerships; corporate power and governance

Jon Caulfield, Ph.D., York, 1991, Associate Professor — downtown Toronto neighbourhoods; residential redevelopment of deindustrialized space in inner Toronto; old church buildings in inner Toronto; use of photographs in urban research

Qiuming Cheng, Ph.D., Ottawa, 1994, Professor — GIS system development; spatial statistics and fractal modeling; spatial decision support system; non-linear image processing and pattern recognition; mineral resources assessment; water system modeling; mathematical geology

Raju Das, Ph.D., Ohio State, 1996, Associate Professor — political economy of Third World development; state theory and state-society relations; social capital; social movements; agro-globalization; South Asia

Taly Drezner, Ph.D., Arizona State, 2001, Associate Professor — biogeography; arid lands; disturbance, invasion and dispersal

Lisa Drummond, Ph.D., Australian National University, 2000, Associate Professor — urban geography; gender; Southeast Asia; postcolonial cities; Asian popular culture; Vietnam

William Found, Ph.D., University of Florida, 1966, Professor Emeritus — landscape analysis, program implementation and evaluation, environmental management, Caribbean islands

Bryn Greer-Wooten, Ph.D., McGill, 1968, Professor Emeritus — ontological and epistemological bases of geographic research relationships between social research and public policy processes, especially resource management (energy, global climate change) phenomenology of environment, especially women's narratives

Christian Haas, Ph.D., University of Bremen, 1996, Professor — sea ice and snow thickness; ocean-ice atmosphere interaction; Arctic climate change; airborne geophysics, satellite remote sensing

- Lam Hae, Ph.D., Syracuse, 2007, Associate Professor* — urban political economy, neoliberal urbanism, politics of urban subcultures, legal geographies, the right to the city
- Baoxin Hu, Ph.D., Boston, 1998, Associate Professor* — remote sensing of vegetation; photogrammetry; canopy modeling
- Jennifer Hyndman, Ph.D., University of British Columbia, 1996, Professor* — geographies of forced migration/immigration; humanitarian aid in response to conflict/asylum/disasters; refugee (re)settlement; critical and feminist geopolitics
- William Jenkins, Ph.D., Toronto, 2001, Associate Professor* — cultural and historical geography; comparative geographies of Irish diasporas; immigration and North American urban history; Canada and the British imperial world; Irish-Canadian studies
- Roger Keil, Ph.D., Johann Wolfgang Goethe University, 1992, Professor* — urban politics and governance; urban political ecology; global cities and infectious disease
- Philip Kelly, Ph.D., University of British Columbia, 1997, Professor* — economic geography; labour; immigration and Canada-Asia transnationalism; Philippine and Southeast Asian development
- Stefan Kipfer, Ph.D., York University, 2004, Associate Professor* — theories of society, politics and the city; comparative urban-regional politics and planning; urban social movements and restructuring; colonization, racialization and urbanization; suburbanization, territorial relations and regional planning; public housing; gentrification, privatization and redevelopment
- Jennifer Korosi, Ph.D., Queen's, 2012, Assistant Professor* — environment, global/climate change, limnology, biogeography, biogeochemistry
- Ute Lehrer, Ph.D., University of California, Los Angeles, 2002, Associate Professor* — cities and globalization; economic restructuring and urban form; political economy of the built environment; theory and history of planning, urban design and architecture; built environment, ethnicity and immigration to urban areas
- Lucia Lo, Ph.D., Toronto, 1988, Professor* — consumer preferences and shopping behaviour; immigrant settlement and urban landscape change; ethnic entrepreneurship and ethnic economies; Chinese immigrants in Toronto; Geomatics and immigrant settlement services; spatial interaction modeling and transportation demand analysis
- Christopher Lortie, Ph.D., British Columbia, 2001, Associate Professor* — community; biogeography; invasion biology; climate change; stress interactions
- Elizabeth Lunstrum, Ph.D., Minnesota, 2007, Associate Professor* — environmental politics in conflict, post-conflict, and transnational spaces; violence and spatial relations; territory and state formation; gender relations; politics of human mobility; southern Africa
- Joseph Mensah, Ph.D., Alberta, 1993, Professor* — critical development theory and Africa; gender and development; space, race, and employment; geography of Aboriginal land claims
- Lewis A. Molot, Ph.D., Alaska, 1981, Professor* — limnology, biogeochemistry; organic carbon fluxes
- Jean Michel Montsion, Ph.D., McMaster, 2009, Associate Professor* — urban social and political geography; ethnicity; indigeneity; gateway cities; Singapore
- Glen B. Norcliffe, Ph.D., DSc., Bristol, 1970, Professor Emeritus* — industrial restructuring; global economy; cultural production
- Linda Peake, Ph.D., Reading, 1983, Professor* — feminist geography; gender, race and class relations in urban environments; urban-political geography; methodologies; Guyana
- Justin Podur, Ph.D., Toronto, 2006, Associate Professor* — environmental modeling; forest fires; landscape fire modeling; climate change
- Valerie Preston, Ph.D., McMaster, 1978, Professor* — gender and urban labour markets; immigration and Canadian cities; transnational migration and citizenship; social geography
- Roberto Quinlan, Ph.D., Queen's, 2000, Associate Professor* — aquatic ecology; limnology; paleoecology
- John P. Radford, Ph.D., Clark, 1974, Professor Emeritus* — social geography of the nineteenth century city; internal structure of cities in the United States South; public policy and intellectual disability
- Tarmo Remmel, Ph.D., Toronto, 2005, Associate Professor* — multi-dimensional measurement and comparison of spatial patterns; spatial accuracy assessment; forest land cover change; post-disturbance vegetation recovery; open-source GIS/RS algorithm development
- André Robert, Ph.D., Cambridge, 1988, Associate Professor* — form and process in rivers; experimental fluvial studies
- Anders L. Sandberg, Ph.D., McGill University, 1985, Professor* — resource management; forest and environmental history
- Jamie Scott, Ph.D., Chicago, 1990, Professor* — geography and religion; geography and literature; geography and postcolonialism
- Steven Tufts, Ph.D., York, 2003, Associate Professor* — geographies of organized labour; labour union renewal; young workers and community economic development; workers in spaces of production/consumption
- Peter Vandergeest, Ph.D., Cornell, 1989, Professor* — environments and identities in Southeast Asia; agro-food systems and industrial aquaculture; cultural politics of development
- J. David Wood, Ph.D., Edinburgh, 1962, Professor Emeritus* — frontiers; settlement; landscape transformation; Ontario; conservation
- Patricia K. Wood, Ph.D., Duke, 1995, Professor* — citizenship; diversity and politics of identity; urban geography; native/non-native relations; immigration and multiculturalism; western Canada; feminist geography; historical geography; use of non-traditional sources
- Douglas Young, Ph.D., York, 2006, Associate Professor* — politics of urban planning and development; legacies of modern urbanism; urban infrastructure
- Kathy L. Young, Ph.D., McMaster, 1996, Professor* — arctic wetland hydrology; slope hydroclimatology; regional snowmelt modeling
- Anna Zalik, Ph.D., Cornell, 2006, Associate Professor* — global humanitarian/development studies, international aid industry, oil industry, political economy, comparative historical studies, post-coloniality

QUEBEC

CONCORDIA UNIVERSITY

DEPARTMENT OF GEOGRAPHY, PLANNING AND ENVIRONMENT

DATE FOUNDED: 1959

DEGREES OFFERED: B.A. Human Environment, B.A.

Urban Studies, B.A. Urban Planning, B.Sc.

Environmental Geography, B.Sc. Environmental Science,

Graduate Diploma (Environmental Assessment), M.Sc.

(Geography, Urban and Environmental Studies), Masters

of Environment (Environmental Assessment), Ph.D.

(Geography, Urban and Environmental Studies).

GRANTED 9/17-5/30/18: 140 Bachelors, 4 Diplomas, 32 Masters

STUDENTS IN RESIDENCE: 999 Specializations and Majors, 108 Masters, 10 Diplomas, 22 Ph.D.s

CHAIR: Pascale Biron

DEPARTMENT ADMINISTRATOR: Anne Pollock-McKenna

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Concordia University, Department of Geography, Planning and Environment, 1455 de Maisonneuve Blvd. West, Montreal, Quebec, Canada H3G 1M8. Telephone (514) 848-2424 extension 2050. E-mail: Geogplanenviro@concordia.ca Internet: <http://gpe.concordia.ca/>

PROGRAMS AND RESEARCH FACILITIES: The Department is located in the Hall building on the main campus in downtown Montréal. It has laboratories for cartography, GIS, and physical geography, and urban planning. Montréal is one of the oldest cities in North America and a vibrant bi-cultural and cosmopolitan city with a prominent international profile. All this provides a stimulating intellectual environment, considerably strengthened by the resources of four large universities which cooperate in many joint projects. The city is an excellent milieu for policy-oriented studies, since it is the home of several international environmental organizations, including the headquarters of the International Union for the Conservation of Nature (IUCN), the Commission on Environmental Cooperation and most recently the Secretariat of Future Earth.

Undergraduate: The Department's curriculum is built around the themes of human environment relationships, the built environment, and environmental science. It offers a full range of B.A. and B.Sc. degrees in these areas from a 42 credit Major to a 60 credit Honors or Specialization. BA students take courses in both human and physical geography as well as a range of techniques (GIS, cartography, statistical, research and field methods). The Department also offers BA programs in Urban Studies and Urban Planning as well as a multi-disciplinary BSc in Environmental Science.

Graduate: The Department offers a Doctorate and a Masters of Science in Geography, Urban and Environmental Studies. These programs are designed to provide students with the theoretical foundation and methodological tools necessary to contribute to the understanding of human interventions in the environment. Through its emphasis on specialization and interdisciplinary perspectives, students are given the opportunity to carry out in-depth research work in any of the Department's areas of specialization covering three broad categories of environment: the natural or bio-physical environment; the human, cultural or behavioural environment; and the urban, built or designed environment. In addition to contributing to the advancement of knowledge, students are well placed to enter a wide range of careers in environmental, urban planning and public policy fields.

The Department also offers an internship based Masters of Environment (Environmental Assessment) and a course based Graduate Diploma in Environmental Assessment. Our Environmental Assessment programs blend theory, current research, assessment techniques and skills so that students enter internships knowledgeable and well trained. Our interns have been very well received in government, business, industry and NGOs alike.

Areas of established strength are environmental issues and problems, sustainable transportation, urban and metropolitan problems, climate change, river restoration, landscape ecology, community-based conservation, industrial restructuring.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Undergraduate degrees at Concordia for out of province students are four-year programs requiring a minimum of 120 credits. The University encourages both full-time and part-time students to apply. Applicants for the M.Sc. Geography, Urban and Environmental Studies program should have an undergraduate degree (B.A. or B. Sc.) in Geography, Planning, Environmental Science, or an equivalent degree in a related field of study from a recognized university. Applicants for the Masters of Environment (Environmental Assessment) and the Graduate Diploma in Environmental Assessment should have an undergraduate degree in an appropriate field plus knowledge of ecology and geographic

information systems with graduation GPAs of 3.3 and 2.7, respectively. Deficiencies may be remedied by appropriate undergraduate courses at Concordia. Applicants for the Ph.D. Geography, Urban and Environmental Studies program should have Master of Arts or a Master of Science in Geography, Urban Planning, Environmental Science, or a related field of study from a recognized university. Applicants are selected on the basis of a sound undergraduate academic record, strong letters of recommendation, and a convincing statement of purpose which clearly describes their academic interest in the program and intended area of research. In addition, admission is contingent on the availability of an appropriate faculty member in the Department to serve as supervisor. Teaching assistantships are available within the department,—and there are opportunities for students to become Research Assistants in one of our many research facilities. Bursaries and scholarships are also available. Applicants are also encouraged to apply for external scholarships from SSHRC, NSERC, FRQNT, and FRQSC.

FACULTY:

- Aiken, S. Robert, Emeritus Professor* — Tropical deforestation, Cultural geography, Developing country environmental issues
- Akbulut, Bengi, Assistant Professor* — Ecological economics, Political ecology and economic geography, Political economy of development, Feminist economics
- Anderson, Jacqueline M., Emeritus Associate Professor* — Cartographic visualization and design, Map user abilities, Map skills education
- Biron, Pascale, Professor and Chair* — Hydro-geomorphology and river dynamics, River management in agricultural watersheds, Geographical Information Systems, Morpho-dynamic numerical modelling, Stream restoration for fish habitat
- Caquard, Sébastien, Associate Professor and Graduate Program Director (MEnv)* — Mapping narratives, Cinematic cartography, Geomedia and the geoweb
- De la Llata, Silvano, Assistant Professor* — Public space, Participatory community planning, Urban design, Social movements and the right to the city, Urban sociology, Open-source urban systems, Planning history, Urban acupuncture, Urban spatial theory, Subaltern urbanisms
- Gauthier, Pierre, Associate Professor* — urban morphogenesis, History of development and planning practices in Quebec, Impact of normative planning theories on urban form, Transportation infrastructure and the quality of urban form
- Gould, Kevin, Associate Professor* — Political ecology, critical geography, conservation and development, Cold War Latin America, Guatemala
- Jaeger, Jochen, Associate Professor* — Landscape ecology, including road ecology, Quantification and assessment of landscape structure and landscape change, Urban sprawl, Ecological modelling, Impact assessment
- Kross, Angela, Assistant Professor* — Remote sensing, Geographic Information Systems, Ecosystem structure and function, vegetation dynamics, land use change and climate change
- Matthews, Damon, Associate Professor and CURC Chair* — Climate change, Global climate modeling
- Mulrennan, Monica E., Associate Professor* — Indigenous resource management, Community-based conservation, Local adaptation to environmental change, Protected areas
- Mohabir, Nalini, Assistant Professor* — Postcolonial migrations, Caribbean diaspora, Indentureship
- Nash, Alan E., Professor* — Cultural geography, Restaurant in Montreal, Gravestones in Iceland and the Caribbean
- Patterson, Zachary, Associate Professor and CRC Chair* — Modeling of transportation, Land-use and their linkages
- Rantisi, Norma, Professor and Graduate Program Director (MSc and PhD)* — Industrial restructuring, Social economy, Workforce development
- Roy, André, Professor and Dean of Arts and Science* — Hydro-geomorphology, Fluvial dynamics

Rutland, Ted, Assistant Professor — History of urban planning, housing, and policing, Race and racialization, Urban political economy

Sklar, Leonard, Associate Professor — Earth surface processes and landscape evolution, Sediment production and transport, Water resources management, Ecological and geomorphic process interactions, Global change and sustainability science

Slack, Brian, Distinguished Emeritus Professor — Transport geography, Maritime transportation, Container shipping, Port planning, Intermodal transportation

St-Jacques, Jeannine, Assistant Professor — Integration of paleoclimate reconstructions with instrumental climate records and climate modelling to address questions of resource management

Thornton, Patricia, Distinguished Emeritus Professor — Population geography, Cultural ecology, Mortality as an indicator of social and environmental justice

Townsend, Craig, Associate Professor — Transportation policy, Projects and politics, particularly in relation to public transit, Urban planning in the developing world

Turner, Sarah, Assistant Professor — Animal responses to environmental change, Primatology

MCGILL UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1945

GRADUATE PROGRAM FOUNDED: 1946

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.

GRANTED 1/1/17-12/31/17: 125 Bachelors, 11 Masters, 7 Ph.D.

STUDENTS IN RESIDENCE: 19 Honors, 218 Majors, 195 Minors, 42 Masters, 44 Ph.D.

CHAIR: Nigel Roulet

DEPARTMENT GRADUATE COORDINATOR: Elisa H. David

FOR CATALOGUE AND FURTHER INFORMATION WRITE

TO: Graduate Affairs, Department of Geography, McGill University, 805 Sherbrooke Street West, Montreal, Quebec, Canada H3A 2K6. Telephone (514) 398-4111. Fax (514) 398-7437. E-mail: grad.geog@mcgill.ca. Website: www.mcgill.ca/geography/

PROGRAMS AND RESEARCH FACILITIES: The department offers integrated programs of study within several fields. Major research locations are urban, temperate and tropical zones, with a history of continuous work in eastern and northern Canada, and Central and South America. Research interests fall into the following clusters: *Earth Systems Science* including global-scale environmental modeling; *Environment and Human Development* including peasant economies and rural livelihoods, and studies of resource-reliant peoples in Arctic and humid tropics; *Environmental Management* including Quaternary paleoecology, palynology, and wetland processes; *GIS and Remote Sensing* including participatory GIS, broad-scale vegetation monitoring, and agent based, environmental, land use, and ecological modeling; *Health Geography* including chronic and infectious diseases; *Land Surface Processes* including hydrology, fluvial geomorphology, permafrost, glacial and periglacial processes, gas, energy and nutrient cycles in peatlands, and greenhouse gas exchange; and *Economic/Political/Urban Geography* including inequality, identity, and critical social geography.

The department has close links with McGill's School of Environment, Global Environmental and Climate Change Centre, Centre for Developing Area Studies, and School of Urban Planning. The Geography Department maintains research laboratories in GIS, soils,

remote sensing and image analysis, geomorphology, hydrology, palynology and tropical research. The Geographic Information Centre and the University Computing Centre are located in the same building. The University maintains field stations at Mont St. Hilaire (close to Montreal), Schefferville (northern Quebec), Bellairs (Barbados), and Axel Heiberg Island (High Arctic). These stations provide accommodation, facilities, and support for research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Graduate studies are administered by the Graduate and Postdoctoral Studies office, and a departmental Graduate Affairs Committee; admission to the Master's program requires a Bachelor's degree (or equivalent) with a strong undergraduate record in geography or a related discipline (a qualifying year is also possible). The Master's degree requires three resident semesters, while the Ph.D. requires six resident semesters in addition to a Master's degree. All degrees require a thesis. Many graduate students receive teaching assistantships worth approximately \$2500 each semester. In addition, numerous research assistantships for the academic year are available. Assistance is also available for fieldwork through research project funds. Please see the department's web site for additional information.

FACULTY:

Sebastien Breau, Ph.D., UCLA, 2006, Associate Professor — economic and industrial geography, international trade, regional political economy

Peter Brown, Ph.D., Columbia, 1969, Professor — environmental governance, stewardship economics

Gail L. Chmura, Ph.D., Louisiana State, 1990, Associate Professor — biogeography, palynology, wetlands, Quaternary

Oliver T. Coomes, Ph.D., Wisconsin-Madison, 1992, Professor — environment and development, peasant economy, cultural ecology, Latin America

Benjamin Forest, Ph.D., UCLA, 1997, Associate Professor — political representation and redistricting, racial, ethnic, and national identity

Margaret Kalácska, Ph.D., Alberta, 2006, Associate Professor — remote sensing of tropical forest ecosystems, forensic applications of remote sensing, modeling of tropical forest ecosystems

Michel F. Lapointe, Ph.D., British Columbia, 1990, Professor — fluvial geomorphology

Yann le Polain de Waroux, Ph.D., UCLouvain 2012, Assistant Professor — land use/cover change, development, globalization

Bernhard Lehner, Ph.D., Kassel, 2005, Associate Professor — large-scale modeling of the terrestrial water cycle

Kevin Manaugh, Ph.D., McGill 2013, Assistant Professor — sustainable transportation, spatial justice, decision making processes, GIS

Graham MacDonald, Ph.D., McGill 2012, Assistant Professor — sustainability science, global land use, agriculture, food systems, sustainable nutrient management, and land system science

Thomas Meredith, Ph.D., Cambridge, 1979, Associate Professor — environmental studies

Tim R. Moore, Ph.D., Aberdeen, 1971, Professor — biogeochemistry of soils and wetlands

Sarah Moser, Ph.D., Singapore, 2008, Assistant Professor — cultural and urban geography

Natalie Oswin, Ph.D., British Columbia, 2005, Associate Professor — urban cultural politics, sexuality and space, intimacy and the development of postcolonial Singapore

Wayne H. Pollard, Ph.D., Ottawa, 1983, Professor — ground ice and geomorphology of cold climates

Mylene Riva, Ph.D., University de Montreal, 2008, Assistant Professor — Indigenous health and health geography

Brian Robinson, Ph.D., Wisconsin-Madison, 2011, Assistant Professor — livelihoods, environment and development

Nancy Ross, Ph.D., McMaster, 1997, Professor — social determinants of health, health inequalities in Canada, income inequality as a determinant of the health populations, environment and obesity

Nigel T. Roulet, Ph.D., McMaster, 1985, Professor — hydrology, biogeochemistry of wetlands

Raja R. Sengupta, Ph.D., Southern Illinois, 2000, Associate Professor — GIScience, environmental modeling, and spatial decision support systems

Renée Sieber, Ph.D., Rutgers, 1997, Associate Professor — public participation GIS and policy models

Ian Strachan, Ph.D., Queen's, 1999, Associate Professor — micrometeorology and hyperspectral remote sensing of agricultural surfaces

Sarah Turner, Ph.D., Hull (UK), 1999, Professor — development, small-enterprise studies, Southeast Asia

Jon Unruh, Ph.D., Arizona, 1997, Associate Professor — human geography and international development - focus on Africa

George W. Wenzel, Ph.D., McGill, 1980, Professor — northern socioeconomic systems and cultural ecology

EMERITI FACULTY:

Sherry Olson, Ph.D., Johns Hopkins, 1965, Professor — social, urban historical, and environmental history

UNIVERSITÉ DE MONTRÉAL

DÉPARTEMENT DE GÉOGRAPHIE

DATE FOUNDED: 1947

DEGREES OFFERED: B.Sc., M.Sc., Ph.D.

GRANTED 6/1/16-5/31/17: 40 Bachelors, 23 Masters, 1 Ph.D.

STUDENTS IN RESIDENCE: 16 Majors, 27 Masters, 14 Ph.D.

STUDENTS NOT IN RESIDENCE: 22 Masters, 13 Ph.D.

CHAIR: Patricia Martin

DEPARTMENT ADMINISTRATIVE ASST: Sophie Banville

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Annie Demers, Telephone (514) 343-8052 or Anick Hamel, Telephone (514) 343-6111 extension 37425, Département de Géographie, Université de Montréal, C.P. 6128, Succ. Centre-Ville, Montréal, Québec, Canada H3C 3J7. Fax (514) 343-8008. E-mail: information@geog.umontreal.ca. Internet: www.geog.umontreal.ca.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers B.Sc., M.Sc., and Ph.D. programs. At the undergraduate level, students specialize in the study of either the physical or the human environment. Courses on environmental thought and spatial analysis are integrated into each specialization. The undergraduate program also counts with an honors program and an international certificate program. Many undergraduates go on to graduate study, or find jobs in the private, non-profit or public sector.

The master's and PhD programs form the core of our graduate program. Sitting at the intersection of francophone and Anglophone geography, graduate studies at the Université de Montréal are highly internationalized and draw on multiple theoretical and linguistic traditions in geography. The department is well supported by external funding agencies, hosts three Canada Research Chairs (in the political economy of food and well-being, atmospheric biogeosciences, and urban water governance) and has numerous dynamic research groups and laboratories (migration and urbanization; GIS and complex systems; critical development studies; remote sensing; water governance; biodiversity and indigenous peoples; biogeography and environmental change; soil science; transportation geography; fluvial and aeolian geomorphology; and cold regions geomorphology). Two

GIS labs, a Geography library and a map library are located on the premises and offer an excellent range of research and training resources and tools for students. The Department of Geography has developed strong ties with several research centers within the university (International Studies; Asian studies; Latin American studies; transportation and networks; Institute for Sustainable Development) as well as with other universities in Latin America, Europe and Canada.

The department also offers several professional degrees, including short programs in spatial analysis and applied geography. We also offer a professional M.Sc. degree with internships in the workplace.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University operates according to a semester system. The M.Sc. degree may be obtained through two distinct programs. The research master's program has fewer course requirements, allowing students time to develop a thesis project, conduct fieldwork, and complete analysis and writing. The second, a professional master's program, requires that students complete 18 credits of coursework as well as an internship. Admission requirements include a Bachelor's degree in geography or in a related field with a GPA of 3.0. The Ph.D. program is designed to train students in cutting edge research in two or three subfields in geography while they work to complete their dissertation. Required coursework (9 credits) is completed within the first year, after which students complete their qualifying exams and project proposal. A central goal of the program is to provide students training in academic publishing as well as university instruction. Admission requirements include a Master's degree in geography or related field and a demonstrated potential for research. Financial assistance is available through university and departmental fellowships, faculty research grants and teaching and research assistantships offered by the department.

FACULTY:

Pierre André, Ph.D., U. de Montréal, 1985, Associate Professor (retired) — environmental studies; environmental impact assessment.

Nicolas Bélanger, Ph.D., Montréal, 2000, Adjunct Professor — environmental sciences

Olivier Blarquez, Ph.D., École Pratique des Hautes Études, France, 2011, Assistant Professor — biogeoscience, paleoecology, geographies of fire, disturbance ecology.

Yacine Bouroubi, Ph.D., Université de Montréal, 2009, Adjunct Professor — remote Sensing, precision agriculture

Christopher Bryant, Ph.D., London School of Economics, 1970, Full Professor (retired) — urban systems, regional development, spatial organization, rural land use

François Cavayas, Ph.D., Laval University, 1983, Full Professor — remote sensing, geographic information systems

Claude Comtois, Ph.D., Hong Kong, 1980, Full Professor — transportation, China

Paul Comtois, Ph.D., Laval University, 1982, Full Professor — aerobiology, palynology, aeromycology

François Courchesne, Ph.D., McGill, 1988, Full Professor — soil science, biogeochemistry

Rodolphe De Koninck, Ph.D., Singapore, 1970, Full Professor (retired) Professor Emeritus — Southeast Asia, Agriculture and environment

Daniel Fortier Ph.D., Laval University, 2005, Associate Professor — cold regions geomorphology

Jan Franssen, Ph.D., McGill, 2012, Assistant Professor — fluvial geomorphology

Kathryn Furlong, Ph.D., University of British Columbia, 2007, Associate Professor — Canada Research Chair in urban water governance and public services

François Girard, Ph.D., Laval University, 2008, Assistant Professor — GIScience, biogeography, forestry

Nicole Gombay, Ph.D., *Queen's University, 2003, Associate Professor* — economic geography, indigenous geographies
 Thora Herrmann, D. Phil, *University of Oxford, 2004, Associate Professor* — indigenous geographies, biodiversity
 Violaine Jolivet, Ph.D., *Université de Paris 1 - Sorbonne, 2010, Assistant Professor* — urban geography; mobility; Caribbean
 James Stephen King, Ph.D., *University of Guelph, 2006, Assistant Professor* — aeolian geomorphology; arid regions
 Claude Marois, Ph.D., *Laval University, 1980, Full Professor* — population; metropolitan areas; spatial analysis
 Patricia Martin, Ph.D., *University of Colorado, 1997, Associate Professor* — development, gender, political violence, Latin America
 Sébastien Nobert, Ph.D., *University of Edinburgh, 2007, Assistant Professor* — political ecology, critical geography
 Liliana Perez, Ph.D., *University of Victoria, 2011, Assistant Professor* — GIScience; complexity theory; forest dynamics
 Pierre Richard, Ph.D., *Université de Montpellier Professor Emeritus* — Phytogeography, paleoecology, quaternary, palynology, peatlands, landscapes
 Touzi, Ridha, Ph.D., *Université Paul Sabatier de Toulouse - Adjunct Professor* — radar polarimetry in remote sensing
 Sébastien Rioux, Ph.D., *York University, 2012, Assistant Professor* — Canada Research Chair in the political economy of food and well-being
 André G. Roy, Ph.D., *SUNY-Buffalo, 1982, Professor Emeritus* — Fluvial geomorphology
 Brian Slack, Ph.D., *McGill, 1972, Adjunct Professor* — transportation geography
 Oliver Sonnentag, Ph.D., *U. of Toronto, 2008, Associate Professor* — Canada Research Chair — atmospheric biogeosciences in high latitudes
 Benoit St-Onge, Ph.D., *Université du Québec à Montréal, Adjunct Professor* — remote sensing, forestry
 Julie Talbot, Ph.D., *McGill, 2010, Associate Professor* — biogeography, environmental change, modeling
 Luna Vives, Ph.D., *University of British Columbia, Assistant Professor* — migration, borders, political geography

UNIVERSITÉ DE SHERBROOKE

DEPARTMENT OF APPLIED GEOMATICS

DATE FOUNDED: 1963

DEGREES OFFERED: BSc in Environmental Geomatics,

MSc in Geographic Science, PhD in Remote Sensing

GRANTED 09/2016 – 08/2017: 11 Undergraduate, 23

Masters, 4 Doctoral

STUDENTS IN RESIDENCE 09/2016 – 08/2017: 47

Specializations, 64 Masters, 32 Doctoral Students

CHAIR: Lynda Bellalite

DEPARTMENT ADMINISTRATIVE ASSISTANT:

Geneviève Crevier

FOR CATALOGUE AND FURTHER INFORMATION, WRITE

TO: Département de géomatique appliquée, Université de Sherbrooke
 2500, boul. de l'Université, Sherbrooke, Québec, Canada, J1K 2R1

E-mail: odile.couture@usherbrooke.ca

Internet: <https://www.usherbrooke.ca/geomatique/>

PROGRAMS AND RESEARCH FACILITIES: The Université de Sherbrooke is a French-speaking institution spanning six campuses in four cities and two provinces. Each year, it welcomes nearly 40,000 students from more than 88 countries. Recognized as a people-oriented institution, the Université de Sherbrooke stands out for its involvement in sustainable development, its program for free access to mass transit, and its co-operative system, which alternates semesters of academic study with paid work internships. The Department of

Applied Geomatics is located on the main Sherbrooke campus in Estrie, renowned for being a dynamic, stimulating, and friendly educational setting.

Undergraduate: The Department offers a specialized undergraduate degree (90 credits), including 33 credits in geomatics (geopositioning, mapping, geomatics, remote sensing, image processing, database management, spatial modeling, aerial-photo analysis) and 24 credits in theme-based activities related to the environment (aquatic and terrestrial ecosystems, spatial demography, watersheds, urban planning, transportation). The program, which uses a project-based approach, enables students to develop their practical skills through actual projects submitted by partner organizations and businesses. Students can opt to study on a full-time, part-time, or co-operative basis. The undergraduate degree is complemented by two 15-credit undergraduate microprograms in applied geomatics and geography.

Graduate: The Department offers a master's degree in geographic science (45 credits) and a doctorate in remote sensing (90 credits). The master's degree has three research streams: geographic environments, geomatics, and remote sensing. Enrollment is regular full-time. A professional stream is also available (sustainable geodevelopment), which can be taken on a regular or co-op basis, either full- or part-time. Four doctoral streams are available: applied geomatics, remote-sensing physics, digital-image processing, and interdisciplinary approach to the environment. Enrollment is full-time. In addition to these programs, the Department offers a graduate microprogram in geomatics (15 credits) and a graduate diploma in applied geomatics (30 credits) that can be taken on a full- or part-time basis.

The Department's physical resources include the Centre d'applications et de recherches en télédétection (CARTEL or center for remote-sensing applications and research), one of Canada's leaders in this field. The center is dedicated to advancing remote-sensing knowledge and its applications to Earth observation. The Department currently benefits from the Canada Research Chair in Terrestrial Observation and Phytoplankton Ecophysiology. In addition, the Department has three laboratories (environmental analysis, spectroradiometry, and image processing and GIS) as well as an environmental-research station (Site Interdisciplinaire de Recherche en Environnement Extérieur or SIRÈNE [interdisciplinary research site on the exterior environment]).

The Department also brings together renowned specialists in a variety of fields of application such as terrestrial (e.g.: forestry and biology) and marine (e.g.: oceanography) ecosystems; the atmosphere (e.g.: physics and mathematics; water and snow (e.g.: climatology); urban environment (e.g.: geography, transportation, and land-use planning); and environmental risks (e.g.: geomatics and topography). Some research projects are paired with internships and/or international activities. The Department of Applied Geomatics is comprehensively designed to allow students to embark on specialization, expand their knowledge, and develop research skills.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Admission to the undergraduate degree requires a diploma of collegial studies (DEC) in natural sciences, computer science and mathematics, or geomatics technology, or a general diploma including differential calculus. The regular program consists of six semesters. The co-op stream alternates academic study with paid work internships.

Admission to the master's program requires an undergraduate degree in geomatics, geographic sciences, or the equivalent. Moreover, candidates must have a cumulative average of 2.7 on a scale of 4.3.

Admission to the doctoral program requires a master's degree in remote sensing, geodesy, or geography, or the equivalent in a related field. Moreover, candidates must have a cumulative average of 3.2 on a scale of 4.3.

Admission to graduate programs (research-based master's and doctorate programs) is based on the candidate's university transcripts, letters of recommendation, and a faculty member's consent to supervise the candidate's research.

Candidates are encouraged to apply to funding agencies (e.g., NSERC or FRQNT) for a scholarship. Positions for correctors, research assistants, and teaching assistants are also available. Moreover, research supervisors can provide funding for their students.

FACULTY:

Lynda Bellalite, PhD, University of Montréal, (1992), Full Professor

— land-use planning, urban planning, transportation, road safety

Goze Bertin Bénié, PhD, Laval University (1987), Full Professor —

health and epidemiology, agricultural geomatics, natural disasters, civil protection

Yacine Bouroubi, PhD, University of Montréal, (2009), Assistant

Professor — remote sensing, digital image processing and modeling, artificial intelligence, artificial neural network, precision agriculture

Richard Fournier, PhD, Laval University (1997), Full Professor —

characterization of forest and wetland environments, spatial analysis

Kalifa Goïta, PhD, Université de Sherbrooke (1995), Full Professor

— snow-cover hydrology, change analysis

Yannick Huot, PhD, Dalhousie University (2005), Associate Professor

— oceanography, surface hydrology, water quality

Alexandre Langlois, PhD, University of Manitoba (2007), Associate

Professor — monitoring of extreme Arctic climatic events, enhancement avalanche-risk prediction, snow modeling, caribou-habitat quality

Ramata Magagi, PhD, Toulouse Institute of Fluid Mechanics (1995),

Full Professor — passive microwave and radar remote sensing, characterization of semiarid environments, snow water equivalent

Norm O'Neill, PhD, York University (1982), Full Professor —

characterization and modeling of atmospheric parameters, atmospheric pollution

Alain Royer, PhD, University of Grenoble (1981), Full Professor —

Northern environment, ecosystem monitoring, characterization of atmospheric aerosols, climate change, snow-cover monitoring and development

Jérôme Théau, PhD, Laval University (2004), Associate Professor —

conservation and biodiversity, plant ecosystems, wildlife habitats, landscape fragmentation, ecological corridors, impacts of management practices on ecosystems, impact infrastructure and human activity, environmental indicators

LATIN AMERICA

ARGENTINA

INSTITUTO DE GEOGRAFÍA “ROMUALDO ARDISSONE” DE LA UNIVERSIDAD DE BUENOS AIRES

TIPO DE INSTITUCION: Pública, académica

ACTIVIDAD PRINCIPAL DE LA ASOCIACION:

Investigación

FECHA DE FUNDACION: 1947

SITIO WEB: <http://geografia.institutos.filo.uba.ar/>

PARA MAS INFORMACION CONTACTAR: Jorge Oscar Blanco, Director, Puán 480 - 4º1406 - Ciudad Autónoma de Buenos Aires Argentina, Teléfono: 54-11-4432-0606, Fax: 54-11-4432-0121, interno 169 iigeo@filo.uba.ar

MISION DEL INSTITUTO: El Instituto de Geografía es el ámbito de la Universidad de Buenos Aires dedicado a la investigación en esta disciplina. En el Instituto se desarrollan diversas líneas de investigación en Geografía, se promueve la formación de investigadores y la articulación con las actividades docentes, y se desarrollan actividades conjuntas con el sector público y con universidades del país y del exterior.

ESTRUCTURA Y ORGANIZACIÓN: El Instituto se rige acorde con el Reglamento de Institutos de la Universidad de Buenos Aires. El Director es acompañado en la gestión por un Comité Académico y una Secretaría Académica. Son miembros del Comité: el Director, la Secretaria Académica, el Director del Departamento y los representantes de: investigadores, becarios, estudiantes investigadores y no docentes. Los miembros del Comité son elegidos por sus representados por voto directo, secreto y obligatorio.

FINES: Son funciones del Instituto de Geografía de la Universidad de Buenos Aires: a) Elaborar y ejecutar planes de investigación disciplinarios y multidisciplinarios. b) Potenciar la articulación de la Geografía y de nuestros investigadores con los problemas reales y concretos de la sociedad argentina y latinoamericana. c) Contribuir a la formación de recursos humanos a través de la dirección de tesis de grado, maestría y doctorado. d) Promover la cooperación e integración con otros ámbitos académicos y científicos del resto del país y del medio internacional.

PROGRAMAS QUE SE OFRECEN: El Instituto cuenta con Programas, grupos de trabajo y proyectos, que nuclea las actividades de los investigadores. Entre los programas y grupos de trabajo se encuentran: Programa de Transporte y Territorio (PTT)-Entre los objetivos del PTT se encuentran: consolidar un ámbito orientado al desarrollo de conocimientos teóricos, empíricos y aplicados sobre temas de transporte; promover actividades académicas sobre temas de Geografía del Transporte; generar un espacio de información, discusión y reflexión favorable al desarrollo de tesis de grado, postgrado y doctorado; prestar asesoramiento a organismos públicos, empresas privadas y organizaciones de la sociedad civil sobre temas de competencia del Programa.

Programa de Economías Regionales y Estudios Territoriales- PERT- El PERT es un ámbito de investigación académica, docencia, transferencia y divulgación, orientado al estudio del desarrollo territorial, en particular en problemáticas vinculadas con la cuestión rural y local y las economías regionales. Las formas de producción del territorio y la cuestión institucional en relación a la situación social y económica de la población de menores recursos (en particular la población localizada en zonas rurales y ámbitos locales) constituyen los ejes básicos de nuestra preocupación teórica y empírica actual.

Programa de Investigaciones en Recursos Naturales y Ambiente - PIRNA- El objetivo del Programa es generar conocimientos y capacitar investigadores en el uso y manejo de los recursos naturales y del ambiente, poniendo el acento en los aspectos relativos a las configuraciones territoriales resultantes de los procesos socioeconómicos. En los últimos años el tema central abordado es el de riesgo ambiental y vulnerabilidad social, para los peligros emergentes de inundaciones, accidentes tecnológicos, invasiones biológicas e incendios forestales.

Programa de Desarrollo Territorial y Estudios Metropolitanos (PDTEM) El proyecto actual del PDTEM se propone analizar y producir información sobre las transformaciones y procesos territoriales en la región metropolitana de Buenos Aires en las dos últimas décadas (años noventa y dos mil), resaltando las semejanzas y diferencias entre ellas, y tomando como referencia la experiencia de otras grandes metrópolis latinoamericanas. El supuesto clave es que se habrían registrado en las dos últimas décadas dos procesos de crecimiento económico con estrategias diferentes, uno de sesgo netamente neoliberal y el otro neo desarrollista, separados por una profunda crisis económica y política.

Grupo de Agua y Energía- El Grupo de Agua y Energía es un espacio pensado para la investigación, la docencia y la transferencia de conocimiento en temas vinculados con el desarrollo y gestión hídrico-energética del territorio, produciendo informes técnicos y de investigación aplicada, ponencias, producción cartográfica, etc.

Grupo de Investigación y desarrollo en la Enseñanza de la Geografía – Indegeog Se constituye a fines de 2004, a partir de la necesidad de crear un espacio de investigación y reflexión acerca de las particularidades de la enseñanza de la geografía en nuestro país, para construir modelos propios de interpretación didáctica que den respuesta teórica y práctica a los distintos problemas que atañen a las prácticas docentes cotidianas. Se fundamenta, a la vez, en el hecho de reconocer la necesidad de fortalecer los vínculos entre universidad y escuela, potenciando la transferencia de saberes e instrumentos para hacer frente a las múltiples demandas de las que es objeto la profesión docente.

Grupo de estudios Cultura, naturaleza, territorio. De reciente formación, constituye, a partir de preocupaciones surgidas respecto de los procesos procesos y las narrativas vinculadas con la globalización, un ámbito colectivo de reflexión, producción y difusión en torno a tres interrogantes centrales: ¿Qué papel han jugado las ideas sobre la naturaleza y la cultura en los procesos de producción territorial?, ¿Qué implicancias han tenido las transformaciones territoriales en la producción de ideas sobre la naturaleza y la cultura?, ¿Cómo ha construido y construye la Geografía, en tanto saber disciplinar, sus modos de mirar, comprender e imaginar la cultura y la naturaleza en su relación con los procesos de producción territorial? Los debates pasados y presentes en las áreas de Estudios Culturales, Estudios Visuales, Estudios sobre Urbanización, Historia de las Ideas, Historia Territorial y Ambiental, Filosofía de las Técnicas, Economía Urbana, Geografía Histórica, Cultural y Económica nutren teórica y metodológicamente los puntos de vista de este Grupo de Estudios.

MIEMBROS: El Instituto cuenta actualmente con cerca de 100 integrantes, entre los que se encuentran investigadores con diversos

grados de formación, becarios, tesistas y alumnos que realizan sus primeras prácticas de investigación.

PUBLICACIONES: El Instituto cuenta con dos publicaciones periódicas activas. La Serie Monográfica “Cuadernos de Territorio”, creada en 1989, ya posee 15 títulos en su haber, algunos de los cuales están digitalizados. La segunda publicación activa es la revista electrónica “Transporte y Territorio”:

<http://revistascientificas.filo.uba.ar/index.php/rtt>, fundada en 2009, de la cual ya se han editado 11 números a la actualidad. Como parte del acervo de publicaciones se puede acceder también a la revista virtual “Litorales”, de la que se publicaron 7 números entre 2002 y 2005. En agosto de 2011 se publicó el N°1 del “Boletín Electrónico”, con el objetivo fundamental de difundir las actividades y la producción del Instituto y estrechar los lazos con la comunidad académica, profesional, política, y con la sociedad en general.

Cuadernos de Territorio:

<http://geografia.institutos.filo.uba.ar/grupo/cuadernos-de-territorio>

Revista Transporte y Territorio:

<http://revistascientificas.filo.uba.ar/index.php/rtt>

UNIVERSIDAD NACIONAL DE GENERAL SARMIENTO

INSTITUTO DEL CONURBANO

FECHA DE FUNDACION: 2010

TECNICATURA SUPERIOR UNIVERSITARIA EN:

Sistemas De Informacion Geografica

TITULOS OFRECIDOS: Técnico Superior Universitario en

Sistemas de Información Geográfica

RESPONSABLE DE LA CARRERA: Lic. Leonardo Di Franco

PARA PEDIR UN CATOLOGO Y MÁS INFORMACIONE,

FAVOR DE ESCRIBIE A: Lic. Leonardo Di Franco, Coordinadora, Laboratorio de Sistemas de Información Geográfica. Instituto del Conurbano. Universidad Nacional de General Sarmiento. Juan María Gutierrez 1150. Los Polvorines, CP: 1613. Malvinas Argentinas. Provincia de Buenos Aires. REPUBLICA ARGENTINA. E-Mail: mmiragli@ungs.edu.ar. Internet:

http://www.ungs.edu.ar/areas/tec_sup_sistema_informacion_geografica/a1/tecnico-superior-en-sistemas-de-informacion-geografica.html

PLAN ACADEMICO: En total, el plan de estudios está conformado por 21 asignaturas (incluidos dos niveles de inglés) por un total de 1751 horas de clase. Las asignaturas contenidas en el plan de estudio responden al perfil que se pretende formar y se organizan en cuatro ejes: formación general, análisis territorial, formación en SIG (incluida la formación en softwares específicos y de uso más general y en cartografía) y práctica pre-profesional. Las materias de formación general tienen por objeto proveer a los estudiantes herramientas y conocimientos generales útiles para su trabajo: conocimientos básicos de inglés (gran parte de los manuales están escritos en ese idioma), Problemas Socio Económicos Contemporáneos (PSEC) y el Laboratorio intermenciones (diagnóstico ambiental) son también instancias ideales para la socialización en la universidad. El laboratorio es también un espacio curricular de síntesis y práctica en el uso de los SIG. Dentro de las asignaturas de formación general se incluyen: PSEC, Inglés I, Inglés II, y Laboratorio Intermenciones (diagnóstico ambiental) (total 14 horas). La bibliografía existente señala de manera reiterada la necesidad de incluir instancias de formación en el análisis territorial. Se prevé que los estudiantes cursen geografía y análisis territorial, ambas asignaturas en dos niveles (total 20 horas). Más de una tercera parte del total de horas del programa de

estudios está centrada en la formación específica en SIG y temas conexos. Dentro de este eje específico de formación hay materias más generales como Introducción a la cartografía, sensores remotos y sistemas de información geográfica y aquellas más específicas como Programas de SIG (donde se enseñará ARC GIS, entre otros programas). Dentro de las materias referidas a los sistemas de información geográfica, cartografía y teledetección se incluyen: Introducción a la cartografía, sensores remotos y sistemas de información geográfica, Introducción a la teledetección y al procesamiento de imágenes satelitales, Cartografía temática, Programas de SIG, Informática aplicada a los SIG, I y II, Estadística aplicada a los SIG, Construcción y gestión de bases de datos aplicadas a SIG (total 46 horas). Por último, se considera que un eje fuerte del programa de estudios es que los estudiantes tengan una aproximación desde la práctica misma por lo cual se han incluido tres talleres de aplicación y un taller final de proyecto cartográfico. Dentro de los talleres de práctica se incluyen: Taller de aplicación inicial, Taller de aplicación 1, Taller de aplicación 2, Taller de aplicación 3 y el Taller final de aplicación: Proyecto cartográfico (total 23 horas). Debe tenerse en cuenta que la práctica también está presente en otras materias del programa como el Laboratorio intermenciones (diagnóstico ambiental), Cartografía temática o Geografía, entre otras.

Contenidos mínimos de las materias:

Eje de formación general

Inglés I: Convenciones de los discursos escritos. Texto y contexto. Estrategias de lectura. Funciones retóricas predominantes en los textos académicos. Desarrollo proposicional, estructura de la información. Sistema sintáctico. Exponentes lingüísticos. Nociones lógico semánticas. Cohesión lógica.

Inglés II: Convenciones de los discursos escritos. Estrategias de lectura. Nociones lógico-semánticas. Tiempos verbales. Verboides. Voz pasiva. Cadenas léxicas. Defensa y refutación de una posición teórica. Presentación de evidencia. Contraste y énfasis.

Laboratorio Intermenciones (diagnóstico ambiental): Identificación y resolución de un problema de conocimiento surgido a partir de un problema real en el marco de la realización de un diagnóstico ambiental municipal. El desarrollo de la asignatura se realiza bajo la modalidad de trabajo en taller a través de la resolución de un problema real.

Problemas socioeconómicos contemporáneos, PSEC: De la "República posible" a la experiencia peronista. De la crisis del populismo al modelo neoconservador. Reconfiguración de la sociedad Argentina. Diferentes enfoques para abordar los problemas socioeconómicos en la Argentina actual, basados en investigaciones recientes. Examen de categorías empleadas en el análisis.

Eje de SIG y temas conexos

Cartografía temática: Cartografía. Semiótica. Teorías de representación. Teorías de interpretación. Cartogramas. Cartodiagramas. Variables visuales. Construcción de cartografía temática.

Construcción y gestión de bases de datos geográficas aplicadas a SIG: Geodatabase. Introducción. Diseño. Construcción. Implementación. Feature classes. Feature dataset. Multisúuarios. Topología. Compresión y compactación de las bases de datos. Atributos.

Estadística aplicada a los SIG: Estadística avanzada (modelos multivariados de correlación, análisis factorial y de correspondencias múltiples). Estadísticas espaciales y aplicación en diversos campos (transporte, localización de unidades sanitarias y comercios, cálculo de probabilidades de riesgos).

Informática aplicada a los SIG, parte I: Uso de paquetes estadísticos (SPSS, STATA, etc.). Modelos

Informática aplicada a los SIG, parte II: Mapas en la Web, Programación básica en C++, Macromedia. Preparación de mapas para publicar en internet. Servidores de mapas. Estandarización cartográfica. Programas para editar mapas en la red. ArcImgs.

Cartografía, sensores remotos y sistemas de información geográfica: La cartografía. Sistemas de proyecciones cartográficas. Elementos planialtimétricos. Elementos de una carta topográfica. Escalas. Mediciones. Elaboración de perfiles. Cartografía temática y digital. Georreferenciación. GPs. Teledetección. Composición de las imágenes. Interpretación de imágenes. Sistemas de Información Geográfica

o Territorial. El SIG como herramienta de gestión e investigación. Aplicaciones a estudios urbanos, ambientales, etc.

Teledetección y procesamiento de imágenes satelitales: Sensores remotos. Teledetección. Espectro electromagnético. Resolución espacial. Resolución espectral. Interpretación visual de imágenes satelitarias. Interpretación digital de imágenes satelitarias.

Programas de SIG: Programas vectoriales: ARC GIS, MapInfo. Programas raster: ERDAS, ENVI. Programas de uso libre. Programas de uso restringido

Eje de análisis territorial

Análisis territorial I: Espacio y territorio. Sociedad y naturaleza. Construcción y estructura del territorio. Escalas. Teorías sobre el territorio. Herramientas para el análisis territorial. Gestión del territorio.

Análisis territorial II: Herramientas y fuentes para el análisis territorial. Herramientas cualitativas básicas: observación, observación participante, lectura de fuentes estadísticas y documentales, grupos focales, entrevistas.

Herramientas cualitativas para el análisis territorial y SIG: Herramientas cuantitativas para el análisis territorial. Fuentes secundarias: censos y encuestas nacionales, información y datos secundarios provinciales y municipales. De las fuentes a los SIG.

Geografía I: Geografía Física General. Geografía Física de la República Argentina. Condiciones geológicas y climatológicas. Condiciones edáficas, biogeográficas. Cuencas hídricas. Regiones.

Geografía II: Los estudios urbanos y regionales en América Latina y en la Argentina. Historia de la urbanización. La geografía física y los estudios urbanos. Algunos elementos para analizar una ciudad o un sistema de ciudades. La estructura interna de la ciudad. Sistemas regionales y nacionales de asentamiento. La actividad económica y los asentamientos humanos. El panorama reciente en geografía urbana: Algunos temas de discusión.

Eje de práctica pre-profesional

Taller de aplicación inicial: Criterios de definición de regiones. Uso de la cartografía. Uso de los sensores remotos. Uso de los sistemas de información geográfica

Taller de aplicación 1: Definición de unidades territoriales a nivel nacional. Definición de variables de estudio. Técnicas de relevamiento de la información. Técnicas de procesamiento de la información. Aplicación de técnicas apropiadas para el estudio a escala nacional

Taller de aplicación 2: Definición de unidades territoriales a nivel regional. Definición de variables de estudio. Técnicas de relevamiento de la información. Técnicas de procesamiento de la información. Aplicación de técnicas apropiadas para el estudio a escala regional

Taller de aplicación 3: Definición de unidades territoriales a nivel municipal. Definición de variables de estudio. Técnicas de

relevamiento de la información. Técnicas de procesamiento de la información. Aplicación de técnicas apropiadas para el estudio a escala municipal

Taller final de aplicación: Proyecto cartográfico: Aplicación de conceptos y metodologías de investigación en ciencias sociales. Definición de objeto y objetivos de estudio. Integración de escalas espacial y complejidad temática.

UNIVERSIDAD NACIONAL DE MAR DEL PLATA

FACULTAD DE HUMANIDADES DEPARTAMENTO DE GEOGRAFÍA

DATE FOUNDED: 1991

DEGREES OFFERED: Profesorado en Geografía,
Licenciatura en Geografía

MAJOR: DEPARTAMENTO DE GEOGRAFÍA

POINT OF CONTACT: Director Dra. Patricia Iris Lucero.

Secretario Dr. Fernando Gabriel Sabuda E-mail:
geofhum@mdp.edu.ar.

FOR FURTHER INFORMATION WRITE TO: Facultad de Humanidades, UNMDP. Funes 3350, (7600), Mar del Plata, Provincia de Buenos Aires, República Argentina. Teléfono: +0054 (223) 475-2426 ó +0054 (223) 475-2288 Int. 407 Int. 407. Fax: +0054 (223) 475-2277 Int. 133. Sitio web:
<http://www.mdp.edu.ar/humanidades/geografia/index.htm>

I. INTRODUCCIÓN

La geografía y su campo temático. Entendemos que la Geografía constituye un campo dentro de las Ciencias Sociales, cuya especialidad y objeto de estudio están representadas por la dimensión territorial de los procesos sociales. Pero atendiendo no solo al perfil de quienes integran a nuestra carrera, sino también a lo que espera de un profesional egresado de esta Facultad, pensamos que no se debe descuidar la valorización histórica y tradicional del geógrafo como analista y trabajador del marco físico-natural.

Es razón de esto planteamos una división interna de la carrera en las siguientes áreas: 1) Físico-natural; 2) Social; 3) Instrumental operativa; y 4) Territorial.

Cada una de ellas se constituirá en el territorio natural de discusión y construcción de las propuestas específicas para cada ámbito diferenciado. Desde este nuevo instrumento institucional, anualmente se elaboraran las propuestas de la transferencia de conocimiento (sobre la base de contenidos mínimos) investigación y de extensión.

Dentro de estas áreas, el profesor y en especial el futuro licenciado, encontraran la oportunidad de elegir parte de su formación mediante el conjunto de asignaturas optativas.

Esta flexibilidad también incluye propuestas que pueden ser ofrecidas desde otros departamentos de la Facultad o bien de otras Unidades Académicas. Esto permitiría un mayor aprovechamiento de los recursos humanos disponibles dentro de un ámbito mayor.

Entendemos que de esta forma el alumno puede llegar a dominar una parte del instrumental necesario de una determinada orientación.

Con el mismo propósito el alumno contara con la alternativa del desarrollo de tareas de investigación dentro de alguno de los proyectos de la Facultad u otra Unidad Académica, al que el alumno deberá adscribirse.

De esta forma no solamente se producirá una suerte de entrenamiento en tareas de investigación, sino que además permitirá una mayor integración con aquellos que provienen o se forman en el ámbito de otras disciplinas.

Entendemos que este puede ser el comienzo de un camino transdisciplinario que le permita a la geografía asumir su especificidad dentro de un marco que lo involucre.

La división en áreas, no implica una autonomía de ellas, sino el reconocimiento de existencia de campos específicos diferenciados por sus características teóricas y organización académica. Cada una tendrá una coordinación específica y todos concurrirán en una articulación departamental como instancia definitiva.

La estructura curricular tanto de la licenciatura como del profesorado contempla los distintos campos del conocimiento geográfico y en el caso particular del profesorado además se tiene en cuenta los programas en vigencia en la enseñanza media. De allí la obligatoriedad de las asignaturas del área territorial.

Dentro de ella diferenciamos a las referidas a la Argentina y a América Latina por entender que ese debe ser el marco de referencia inmediato sin por ello soslayar otras vinculaciones espaciales también de relevancia.

Finalmente, en el contexto de la reducción del número de asignaturas, se incorpora el tratamiento del caso argentino en los contenidos mínimos de cada una de las asignaturas de las áreas física y social.

II. PERFIL

Las cuestiones de orden epistemológico de la geografía como disciplina plantean no pocas dificultades para acotar una definición que seguramente sería demasiado restringida. Por otro lado limitaría la capacidad de la carrera para responder a los distintos intereses y expectativas de los estudiantes y de los que pretenden serlo.

De hecho, los geógrafos se han desempeñado en campos como investigación, la planificación, la gestión y el asesoramiento, como así también en la docencia universitaria y del medio.

A pesar de la diversidad temática, podríamos señalar como común denominador al estudio de la relación espacio-sociedad como el eje alrededor del cual giran las posiciones más diversas de los distintos trabajos que se involucran en el rótulo de Geografía.

En consecuencia proponemos un perfil profesional -tanto para el licenciado como para el profesor- en términos muy amplios y generales, que permitan dar lugar a los diversos enfoques teórico-metodológicos y a la gran diversidad de intereses y motivaciones.

II.a. PERFIL DEL PROFESOR

El profesor en Geografía está capacitado para ejercer la docencia en Geografía y disciplinas afines en la enseñanza.

En consecuencia deberá ser capaz de:

- conocer los conceptos e ideas básicas de las diferentes disciplinas y corrientes de pensamiento en geografía física y social;
- conocer los principales procesos relacionados con la organización del espacio mundial, con especial referencia a la Argentina y a América Latina;
- programar y evaluar al proceso de enseñanza-aprendizaje; y,
- seleccionar y utilizar creativamente los métodos pedagógicos necesarios para el logro de los objetivos propuestos.

II.b. PERFIL DEL LICENCIADO

Es un profesional capacitado para desarrollar tareas de: investigación, planificación, gestión, asesoramiento, producción de información y docencia universitarias en tareas y problemas vinculados con la

relación entre espacio y sociedad, y con la organización de actividades humanas en el territorio.

Por lo tanto deberá ser capaz de:

- conocer los conceptos e ideas básicas de las distintas disciplinas y corrientes de pensamientos acerca de la relación espacio-sociedad;
- conocer los principales procesos que hacen a la organización del espacio con especial referencia a la Argentina y a América Latina;
- plantear, diseñar y desarrollar proyectos de investigación acerca de temas sin problemas referidos a la relación espacio-sociedad, incluyendo la elaboración teórico-metodológica de la investigación, su diseño operativo y su realización;
- construir y /o utilizar críticamente las técnicas de recopilación, procesamiento, elaboración y representación de información que sean necesarias para el desarrollo de las tareas enunciadas precedentemente;
- elaborar informes y otras formas de comunicación de los resultados obtenidos; y, integrarse activa y eficazmente en equipos de investigación, planificación, gestión, asesoramiento y producción de información

III. CONTENIDOS MINIMOS DE LAS ASIGNATURAS

- Introducción a la Geografía: Historia de las corrientes de pensamiento geográfico. El instrumental metodológico. El subsistema físico-natural, el subsistema socio-económico y el espacio organizado
- Historia Económica Argentina*: Conocimientos básicos de la evolución de la economía argentina
- Sociología*: los grandes teóricos. La organización internacional. La estructura social argentina
- Fundamentos de Climatología y Ecología: Conceptos básicos de los factores determinantes del clima. Análisis de sus elementos. Principios de ecología. Clima y biomas de la Argentina
- Geomorfología: conceptos básicos de geología. Análisis de los sistemas y procesos geomórficos a diferentes escalas. Estudio particular de la geomorfología argentina y los espacios litorales
- Hidrología continental y marina: estudio de la estructura y dinámica de la hidrósfera. Área continental y marina. Estudio particular de Argentina
- Cartografía: Desarrollo de las técnicas de representación gráfica necesarias para la cartografía temática
- Aerofotointerpretación y teledetección: Principios de la Teledetección. Interpretación de la información: visual y digital. Aplicación a estudios sistemáticos e integrales dentro y fuera de Argentina.
- Estadística: Conceptos básicos para la recolección, procesamiento e interpretación de la información estadística
- Principios de Matemática e Informática: Conocimientos matemáticos básicos para su aplicación a la estadística e introducción al manejo de los programas elementales en computación
- Geografía Social: la sociedad y su relación con las variables temporo-espaciales. Evolución de la organización económico-social. La relación espacio-sociedad. Estudio particular de Argentina
- Geografía Económica: Estudio de la dimensión espacial de los fenómenos y procesos económicos. Instrumental y estructura económica de la Argentina
- Geografía Política: estudio de las formaciones estatales. La materialización institucional y territorial. Estructura y dinámica de las Relaciones Internacionales. Estudio particular de la Argentina.
- Política y Economía de los Recursos Naturales: estudio del manejo y uso de los Recursos Naturales. La interacción Sociedad- Naturaleza. El pensamiento económico y el discurso ecológico. Medio ambiente y planificación del desarrollo.

Estudio particular de Argentina.

- Geografía Urbana: estructura de los sistemas urbanos. Incidencia de los factores culturales, sociales, económicos y naturales con el fenómeno urbano. La producción social del espacio urbano. Estudio de la problemática urbana Argentina.
- Geografía Rural: la organización del espacio rural. Delimitación y caracteres. Producción social del espacio rural. Relaciones urbano-rural. Estudio particular de la Argentina.
- Teoría y método de la Investigación Geográfica: Análisis de los diferentes marcos teórico-metodológicos actuales que involucren diferentes corrientes de pensamiento. La Geografía y la problemática inter, intra y transdisciplinaria.
- Problemática Territorial Argentina: estudio de recorte espacial integrando los diferentes subsistemas (físico y social) utilizando las herramientas del área instrumental- operativa
- Problemática Territorial de América Latina: estudio de recorte espacial integrando los diferentes subsistemas. modelos de organización territorial. Criterios de diferenciación espacial. Vinculaciones con la Argentina.
- Área Socio Territorial I: estudio de recorte espacial integrando los diferentes subsistemas (físico y social) utilizando las herramientas del área instrumental-operativa. Vinculación de los distintos espacios con la Argentina. Modelos de organización territorial. Criterios de diferenciación espacial.
- Área Socio Territorial II: estudio de recorte espacial integrando los diferentes subsistemas (físico y social) utilizando las herramientas del área instrumental- operativa. Vinculación de los distintos espacios con la Argentina. Modelos de organización territorial. Criterios de diferenciación espacial.
- Seminario de Recursos Oceánicos: trabajos especiales de profundización de temas vinculados con el uso del espacio marítimo como integración sociedad-medio ambiente. Aplicaciones en el caso argentino.
- Seminario de Uso de la tierra y ordenamiento espacial: trabajos especiales de profundización de temas vinculados con problemáticas y temas derivados de la organización espacial
- Elementos de Economía*: Conceptos básicos de las teorías económicas
- Geología*: Geología estructural y geología marina
- Edafología: el suelo como complejo geomorfológico-biológico. Su importancia potencial y efectiva como insumo productivo. Los suelos de la Argentina
- Geografía Física Argentina: estudio integrado del medio ambiente natural de Argentina. Su integración al sistema socio-económico. Problemas ambientales en el espacio argentino.
- Demogeografía: fuentes de documentación en estudios de la población. Variables demográficas. Estructura y dinámica de la población. Medidas y representaciones gráficas.
- Introducción a la Antropología*: aportes desde diferentes concepciones teóricas de la Antropología a la concepción del espacio como construcción cultural. La cultura como producción social condicionada temporoespacialmente.
- Seminario de Medio ambiente y ordenamiento ambiental: trabajos especiales de profundización vinculados con la aplicación del instrumental teórico metodológico para la resolución de problemas ambientales.
- Seminario de gestión y administración territorial: trabajos especiales de profundización vinculados con problemáticas referidas a la planificación y ejecución de políticas y estrategias territoriales

Nota: *las asignaturas indicadas son dictados por otros Departamentos académicos

GRUPOS DE INVESTIGACIÓN

- Centro de Estudios Geográficos y Socio Ambientales
Director (interino): García, Mónica.
- Grupo de Estudios Sobre Población y Territorio
Director: Lucero, Patricia.

- Grupo de Estudios Medio Ambiente y Urbanización
Director: Mantobani, José M.
- Grupo de Estudios Regionales
Director: Gejo, Omar.
- Grupo Instituciones de la Ciencia Geográfica
Director: Cicalese, Guillermo.
- Grupo de Estudios de Ordenamiento Territorial
Director: García, Mónica.
- Grupo Ambiente Costero
Director: Morrel, Patricia.
- Grupo Calidad de Vida
Director: Prandín, Griselda.
- Desarrollo Rural, Ambiente y Geotecnologías
Director: Bocero, Silvia

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Los requerimientos de admisión son cumplir con alguna de las siguientes condiciones: 1) haber completado y finalizado la educación secundaria; 2) ser estudiantes que hayan cursado todo el nivel secundario en nuestro país y adeuden materias de ese nivel podrán inscribirse de manera condicional; 3) ser estudiante que haya finalizado sus estudios secundarios en otro país y cumpla con los requisitos legales; o 4) ser mayor de 25 años que no tenga estudios secundarios completos y cumpla con ciertos requisitos de la ley 24.521

La UNMDP ofrece Becas cuyos los estipendios que, a título de promoción, no implican alguna de relación laboral, se abonan para la formación de recursos humanos en el ámbito de la Universidad a estudiantes, graduados y docentes, que deseen perfeccionar su formación en disciplinas científicas, tecnológicas, humanísticas y sociales.

UNIVERSIDAD NACIONAL DE TUCUMÁN

**FACULTAD DE FILOSOFIA Y LETRAS
INSTITUTO DE ESTUDIOS GEOGRAFICOS "Dr.**

Guillermo Rohmeder"

DATE FOUNDED: 1940 y refundado en 1981

DIRECTOR: Dra. Ana Isabel Rivas

DEGREES OFFERED: M.S., Ph.D. en Ciencias Sociales

Orientación Historia o Geografía

GRANTED: 9 Masters y 2 Ph.D.s

FOR FURTHER INFORMATION WRITE TO: Dra. Ana Isabel Rivas. Av. Benjamín Aráoz 800, San Miguel de Tucumán, Argentina. Código Postal 4000.

Telephone (0054) 381-4107348. Fax (0054) 381-410171.

E-Mail: ieg@filo.unt.edu.ar. Internet: <http://www.filo.unt.edu.ar>.

PROGRAMS AND RESEARCH FACILITIES: El Instituto de Estudios Geográficos "Dr. Guillermo Rohmeder" (I.E.G.) desarrolla sus actividades académicas desde 1940, pero luego de un amplio periodo de inactividad fue reabierto en 1981. Desde su creación, el Instituto de Estudios Geográficos planteó como objetivos principales: a) llevar a cabo investigaciones en el ámbito regional y b) divulgar los resultados de dichas investigaciones a través de publicaciones periódicas (series monográficas, libros, etc.) y de las labores docentes en la carrera de grado (Profesorado y Licenciatura en Geografía) y postgrado. Actualmente el I.E.G. está integrado por geógrafos e historiadores que se desempeñan como docentes e investigadores. También participan activamente en las tareas de investigación los becarios de postgrado y los estudiantes de grado y técnicos. Desde la década del '80 el equipo académico se orientó a la generación de conocimiento en el área de las Ciencias Sociales encarando

problemáticas del ámbito provincial y regional. En este marco han surgido diversos programas y proyectos de investigación orientados hacia los estudios sociales y naturales de la provincia de Tucumán y del conjunto regional del norte argentino. Estos proyectos se ejecutan con el financiamiento de diversas instituciones nacionales como la Secretaría de Ciencia y Técnica de la Universidad Nacional de Tucumán, el Consejo Nacional de Investigaciones Científicas y Tecnológicas (CONICET) y la Agencia Nacional de Investigación Científica y Tecnológica. Durante los últimos 15 años se han formalizado emprendimientos conjuntos con instituciones nacionales - como el Grupo de Estudios Rurales de la Universidad de Buenos Aires coordinado por la Mg. Norma Giarracca, la Asociación de Estudios de Población de la República Argentina (AEPA) - e internacionales como la Philipps- Universität Marburg y la Hochschule Vechta de Alemania y el departamento de Geografía de la Universidad de Málaga, España. Mediante estos contactos se generó un importante proceso de cooperación académica y científica entre los docentes/investigadores del I.E.G. y las instituciones mencionadas. Actualmente las líneas de investigación se orientan hacia las problemáticas urbanas y rurales, procesos y problemáticas agrarias, demografía, la calidad de vida en el noroeste argentino y medición y análisis de la pobreza en el Norte Grande Argentino. El I.E.G. cuenta con una Hemeroteca y Biblioteca cuyo objetivo es apoyar las funciones de los investigadores, docentes, estudiantes y profesionales vinculados con los programas y proyectos de investigación tanto del I.E.G. como de otros centros de investigación de la UNT, de universidades de la región y del país; visitantes extranjeros y nacionales, así como de instituciones gubernamentales y no gubernamentales de nuestro medio. Realiza canje con 58 instituciones nacionales entre las que se destacan, universidades nacionales, institutos y centros de investigaciones históricas y geográficas, academias nacionales, INDEC, etc. Además mantiene un fluido canje con 76 instituciones extranjeras entre las que figuran universidades de Alemania como la de Kiel, Marburg, Hannover, Tübingen; de España como la Autónoma de Madrid, Sevilla, Cádiz, Barcelona, Zaragoza, etc.

Personal Responsible: Prof. Alicia Ferrari y Prof. Mercedes Porcel
E-mail: hemeieg@filo.unt.edu.ar

Laboratorio de cartografía digital

Este laboratorio cuenta con un equipo de especialistas que realizan tareas relacionadas con los sistemas de información geográfica (SIG), los cuales se definen como el conjunto de herramientas para el análisis de la información del territorio, desarrolladas para ser usadas con computadoras personales. Las bases de datos del SIG incluye información cartográfica del área metropolitana de San Miguel de Tucumán, de la Provincia de Tucumán y del Norte Grande Argentino, información estadística del INDEC (Censos y Encuestas) y también registros recopilados a través de las investigaciones y servicios realizados por el I.E.G. Desde este ámbito se brinda servicios relacionados con Sistemas de Información Geográfica y Procesamiento de Imágenes de Satélite: cartografía general en soporte digital, cartografía temática, análisis espacial multivariante, procesamiento de imágenes de satélite, correcciones geométricas, georeferenciación, correcciones espectrales, composición falso color, clasificación multispectral y procesamientos multitemporales.

Personal a cargo: Ing. Horacio Madariaga, Dra. Claudia M. Hernández y Lic. Federico J. Soria.

Publicaciones

Revista Breves Contribuciones del IEG, editada por el IEG
Población y Sociedad, editada por la Fundación Yocavil

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: En el área de la Geografía, por medio de un trabajo consensuado entre docentes del área de Historia y Geografía se creó en 1995 la *Maestría en Ciencias Sociales (orientación Historia o Geografía)* con sede en el Instituto de Estudios Geográficos. Su origen

respondido a las propuestas y necesidades personales de un grupo de docentes e investigadores de estas dos disciplinas y no fue el resultado de una política de postgrado general establecido en el seno de la propia Universidad. Desde el 2003 la Maestría se complementó con el Doctorado con el propósito de articular con el nivel superior y en consecuencia se creó la *Maestría y Doctorado en Ciencias Sociales (orientación Historia o Geografía)* acreditada por la CONEAU (Comisión Nacional para la Evaluación y Acreditación Universitaria). Esta carrera se desarrolla en base a una oferta de cursos básicos de contenido metodológico y de formación general, los que se complementan con temáticas específicas de cada disciplina, es decir de Geografía e Historia, siendo algunos obligatorios y otros optativos. Se cuenta con un cuerpo estable de 11 profesores que proceden de universidades nacionales e internacionales (Universidad de Buenos Aires, de la Universidad de Quilmas, Universidad del Nordeste y del extranjero se puede mencionar a la participación desde la Universidad de Marburg, Alemania; la Universidad Autónoma de Madrid, entre otros). También cuenta con un cuerpo de profesores invitados, donde a los de Buenos Aires y Tucumán, se agregan docentes de Berkeley, Madrid, Turín, entre otros. Actualmente la carrera cuenta con 25 estudiantes, quienes pueden acceder al sistema de becas que ofrece la Secretaría de Ciencia y Técnica de la UNT o las del CONICET.

Director: Dr. Alfredo S.C. Bolsi E-mail: bolsi@filo.unt.edu.ar
Secretaría: Lic. Noemí López E-mail: nlopez@filo.unt.edu.ar

FACULTY:

Bolsi, Alfredo S. C., 2007 Ph. D. Universidad Nacional de Tucumán — Geografía Histórica, Geografía de la Población y Demografía.
Wüschmidt, Enrique J., 1999 - Profesor Universidad Nacional de Tucumán — Geografía Física, Cartografía y Geografía Matemática.

UNIVERSIDAD NACIONAL DEL SUR

DEPARTAMENTO DE GEOGRAFIA y TURISMO

FECHA DE FUNDACION: 1956

TITULOS OFRECIDOS de POSGRADO: Doctorado en Geografía y Magíster en Geografía. Especialización en Turismo Rural y Comunitario. Maestría en Desarrollo y Gestión Territorial Maestría en Procesos Locales de Innovación y Desarrollo Rural (PLIDER)

TITULOS OFRECIDOS de GRADO: Licenciatura en Geografía, Profesorado en Geografía, Licenciatura en Turismo, Licenciatura en Oceanografía. Tecnicatura en Cartografía, Sistemas de Información Geográfica y Teledetección, Arquitectura

CANTIDAD DE ALUMNOS DE GRADO ENTRE TODAS LAS CARRERAS DE GRADO: 2275

Alumnos

CANTIDAD DE ALUMNOS DE DOCTORADO y de MAESTRIA: 108 Alumnos

DIRECTORA DEL DEPARTAMENTO: Mg. Stella Maris Visciarelli

SECRETARIA ACADÉMICA DEL DEPARTAMENTO: Mg. Cecilia Alejandra Rodríguez

DIRECTOR DEL PROGRAMA DE POSGRADO PARA DOCTORADO: Dra. Alicia María Campo

DIRECTORA DEL PROGRAMA DE POSGRADO PARA MAESTRIA: Dra. Alicia María Campo

SECRETARIA DE POSGRADO: Dra. María Luján Bustos

SECRETARIA DE EXTENSIÓN: Lic. María Paula Michalijos

PARA MÁS INFORMACIONES, FAVOR DE ESCRIBIR A: LIC. MARÍA PAULA MICHALIJOS. DEPARTAMENTO DE GEOGRAFIA Y TURISMO-UNS -Calle: 12 de Octubre y San Juan-4to piso- Ciudad Bahía Blanca, País: Argentina.Teléfono y fax: 54-291-4595144. Mail: extensiondgyt@uns.edu.ar - Página de la Universidad: www.uns.edu.ar – Página del departamento de Geografía y Turismo <http://www.geografiayturismo.uns.edu.ar/>

PROGRAMAS E INSTALACIONES DE INVESTIGACION: el Departamento de Geografía y Turismo cuenta con varios centros de investigación y un conjunto de actividades que contribuyen al apoyo académico y profesional de la disciplina: Centro de Documentación y Producción Cartográfica, Laboratorio de Cartografía Digital, Laboratorio de Geotecnologías (LabGeoT), Biblioteca Especializada en Geografía, Consejo Editorial y Comité Editorial de la Revista Universitaria de Geografía, CIUR- Estudios Territoriales: Centro de Investigación Urbano-Regionales, Grupos de Investigación (PGIs y PGI TIR Proyecto, de InterésRegional-), Cursos de Capacitación, de Perfeccionamiento y de Actualización para Docentes, Organización de Jornadas, Encuentros y Congresos.

PROGRAMA DE POSGRADO: El Doctorado y Magister en Geografía es personalizado, los alumnos deben obtener 100 horas entre cursos y seminarios para el Doctorado y los 80 para la Maestría. Cada año en el mes de marzo se publica el calendario con los cursos ofrecidos. Colaboran en el dictado de los mismos profesores de Universidades Nacionales y del exterior. Las temáticas responden a las diferentes temáticas de los tesis.

INCUMBENCIAS DE LOS PLANES DE ESTUDIO:

Licenciatura en Geografía

Duración: 4 años y un cuatrimestre

Los graduados en esta carrera podrán delimitar y realizar el diagnóstico de regiones geográficas con fines de ordenamiento y organización territorial. Participar en equipos interdisciplinarios para planificar, trabajar para la utilización racional de los recursos naturales y culturales; evaluar los cambios operados por factores de origen natural o antropogénico e interpretar los fenómenos que el proceso de globalización impone en todas las escalas espaciales y temporales.

Profesorado en Geografía

Duración: 4 años y un cuatrimestre

Los graduados en esta carrera podrán ejercer la profesión docente en los diferentes niveles de Educación Primaria y Educación Secundaria, en establecimientos públicos y privados, también en el nivel Terciario y Universitario. Planificar, orientar y evaluar el proceso de enseñanza y de aprendizaje de la Geografía en los diferentes niveles educativos. Participar y elaborar proyectos individuales e interdisciplinarios vinculados a las cuestiones pertinentes a la tarea docente y a la gestión educativa.

Licenciatura en Turismo

Duración: 5 años

Los graduados en esta carrera podrán desempeñarse profesionalmente en la investigación, en la planificación de los recursos, en la gestión, tanto económica como cultural, acorde a los requerimientos y necesidades de la región y del país. Elaborar políticas de desarrollo, promoción y gestión del turismo. Formular, elaborar, dirigir planes y evaluar planes de desarrollo y proyectos turísticos. Organizar, coordinar y gerenciar empresas turísticas. Desarrollar actividades de gestión operativa y gerencial en empresas y organismos de turismo tanto de competencia de nivel público como privado. Coordinar equipos interdisciplinarios de planeamiento del desarrollo de los sectores turísticos y recreativos.

Licenciatura en Oceanografía

Duración: 5 años

Los graduados en esta carrera podrán ejercer toda actividad relacionada a la investigación y la profesión en carácter independiente

o en relación de dependencia a través de trabajos específicos, asesoramientos, arbitrajes, pericias, tasaciones, etc. El ámbito de aplicación de estos alcances corresponde a toda masa de agua y su zona de influencia, los océanos, los mares, grandes lagos, sus fondos y subsuelos, entre otros. La carrera tiene varias orientaciones: física marina, geología marina, química marina y biología marina.

Tecnicatura en Cartografía, Sistemas de Información Geográfica y Teledetección.

Duración: 3 años

Las actividades profesionales del técnico consisten en la realización de tareas de asesoramiento y análisis de los datos espaciales en organismos públicos (Universidades, Municipios, Gobernaciones) o de iniciativa privada (Consultoras). Estas tareas se podrán ejercer a través de: organismos y servicios permanentes de investigación y estudios ambientales, integrantes de entidades científicas, culturales, económicas y administrativas, prestación de servicios dirigidos a la realización de determinados estudios o investigaciones de interés para instituciones públicas o particulares, inclusive pericias y arbitrajes, prestación de servicios de carácter permanente o temporario bajo la forma de consultoría o asesoría a requerimiento de organismos públicos o privados.

Arquitectura

Duración: 5 años

Las incumbencias de los Arquitectos son: Diseñar, proyectar, dirigir y ejecutar la concreción de los espacios destinados al hábitat humano, obras de recuperación, renovación, rehabilitación y refuncionalización de edificios, conjuntos de edificios y de otros espacios. Proyectar, dirigir y ejecutar la construcción de edificios, conjuntos de edificios y los espacios que ellos conforman, con su equipamiento e infraestructura y otras obras destinadas al hábitat humano y todo lo concerniente a la higiene y seguridad en obras de arquitectura. Efectuar la planificación arquitectónica y urbanística de los espacios destinados a asentamientos humanos. Realizar estudios e investigaciones referidos al ordenamiento y planificación de los espacios que conforman el hábitat y a los problemas relativos al diseño, proyecto y ejecución de obras de arquitectura. Participar en planes, programas y proyectos de ordenamiento físico-ambiental del territorio y de Participar en la elaboración de normas legales relativas al ordenamiento y planificación de los espacios que conforman el hábitat humano. Realizar arbitrajes, peritajes, tasaciones y valuaciones relacionadas con el ordenamiento y planificación de los espacios que conforman el hábitat y con los problemas relativos al diseño, proyecto y ejecución de obras de arquitectura.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA:

La enseñanza en la Universidad Nacional del Sur es libre y gratuita. Los cursos de grado no están arancelados. Las materias se cursan por cuatrimestre. El primer cuatrimestre comienza en marzo hasta finales de junio. El segundo cuatrimestre comienza en agosto hasta principios de diciembre. Hay un programa de intercambio de alumnos extranjeros con otras Universidades, que administra la Secretaria General de Relaciones Institucionales y Planeamiento. El contacto es: sriyp@uns.edu.ar. La inscripción al Programa de Posgrado es gratuita y la admisión queda sujeta al Reglamento de Estudios de Posgrados Académicos. Los cursos para la obtención de los créditos son arancelados. Consultas en posgradodgtyt@uns.edu.ar

PROFESORES de la UNIDAD ACADÉMICA DE GRADO

Angeles, Guillermo Raul — GIS y Teledetección

Bagnulo, Cecilia Beatriz — Geografía Rural y Teoría del Planeamiento

Benedetti, Graciela — Biogeografía Cultural y Teoría y Epistemología de la Geografía

Bohn, Vanesa Yael — Geografía Ambiental Argentina

Bustos, Roberto Nicolas — Desarrollo Territorial y Geografía Regional Argentina

Campo, Alicia Maria — Geografía Física

Caramelli, Sabrina Maricel — Organización de los Servicios Turísticos –Transporte y Agencias de Viajes

Ercolani, Patricia Susana — Geografía del Turismo

Fittipaldi, Rosa Angela — Geografía Histórica y Geografía Económica, Política y Social

Gallucci, Soledad — Gestión de la Calidad en Turismo – Políticas Turísticas

Garritz, Eduardo Julio — Geografía Urbana

Gentili, Jorge Osvaldo — Climatología y GIS

Geraldi, Alejandra — GIS y Teledetección

Gil, Valeria — Congresos y Convenciones

Gil, Verónica — Geografía Física e Hidrografía

Guerrero, Ana Lia Del Valle — Geografía de América y Oceanía y Geografía Turística

Haag, María Isabel — Geografía de los Recursos Turísticos

Jonke, Brenda Laura — Turismo y organización de los Servicios Turísticos

Lorda, María Amalia — Didáctica y Práctica de la Geografía

Martín María Cecilia — Geografía Regional Aplicada

Melo, Walter — Cartografía Náutica

Minervino, Mario Roberto — Patrimonio Histórico y Cultural

Monachesi, Alejandra — Gestión Ambiental y Metodología de la Investigación Rural

Moroni, Andrés — Morfología y Taller de Arquitectura I

Nieto, María Belén — Geografía de Asia

Perez, María Ines — Técnicas y Metodología de la Investigación en Geografía

Piccolo, María Cintia — Hidrografía y Oceanografía

Prieto, María Belén — Geografía de la Población – Demografía Aplicada

Prieto, María Natalia — Didáctica y Práctica de la Geografía

Rodríguez, Cecilia — Planeamiento Turístico – Gestión de Destinos Turísticos

Rosake, Paola Alejandrina — Introducción al Turismo

Rosell, María Patricia — Geografía Ambiental de la Argentina

Rubio, María Laura — Cartografía Automatizada

Sili, Marcelo Enrique — Organización y dinámica del espacio rural y Mercosur

Tonellotto, Sandra — Geografía Regional Argentina

Trellini, Mauro — Análisis Cuantitativo de la Actividad Turística

Visciarelli, Stella Maris — Geografía América y Oceanía y Geografía Turística

Vitale, Alejandro - Mareas

Zingoni Segatori, Jose María — Gestión del Patrimonio Urbano – Historia de la Arquitectura

BOLIVIA

UNIVERSIDAD MAYOR DE SAN ANDRÉS

**FACULTAD DE CIENCIAS GEOLÓGICAS
CARRERA DE INGENIERÍA GEOGRÁFICA
FUNDADA EN: 1984**

GRADOS QUE OFRECE: Técnico Superior en Ordenamiento Territorial y Catastro, Ingeniería Geográfica, Maestría en Geopolítica de los Recursos Naturales, Maestría en Teledetección y SIG

ESTUDIANTES ACTUALES: Ingeniería: 422 (2014); Maestría: 64

DIRECTOR: Msc. Erwin Galoppo von Borries

PAGINA WEB: www.geografia.umsa.bo

PARA MAYOR INFORMACION ESCRIBIR A: Erwin Galoppo, ergaloppo52@hotmail.com, Dirección de Carrera, Edif. de Geografía, Piso 3, of. 301, Campus Universitario de Cota Cota, Calle 27. Telef.: 2442881, 2612881, La Paz - Bolivia.

PROGRAMAS: La preocupación ambientalista de los últimos años y el "giro espacial" dentro de las ciencias sociales, primero en los países desarrollados y luego en el nuestro, ha vuelto a dar la importancia al objetivo de la Geografía: el análisis y la planificación del territorio o del espacio geográfico. Ideas tales como planificar el espacio geográfico, utilizar racionalmente nuestros recursos, ordenar el uso de la tierra, u ordenar el territorio, comienzan cada vez más a manejarse en los niveles de decisión gubernamentales de Bolivia y se prevé que la demanda por profesionales relacionados con estos campos, crecerá rápidamente en los próximos años. Esta demanda no solo incluye a los profesionales en otras disciplinas, sino también a los geógrafos como especialistas de la planificación del espacio. En este sentido, la Carrera de Ingeniería Geográfica, de la Facultad de Ciencias Geológicas de la UMSA, tiene el reto de responder adecuadamente a dicha demanda. Esto implica, la adecuación del Plan de Estudios de la Carrera de Ingeniería Geográfica, de acuerdo a los requerimientos de nuestra sociedad y al rápido desarrollo de la tecnología de los últimos años. La Carrera de Ingeniería Geográfica aparece por primera vez durante la década de los años 60 en la Universidad Mayor de San Andrés como Carrera de Geografía y Recursos Naturales, la misma que fue cerrada temporalmente. Desde 1984 se consolida como Carrera de Ingeniería Geográfica como parte de las carreras que ofrece la Universidad Mayor de San Andrés.

A partir de 2009 se aprueba el programa de Técnico Superior en Ordenamiento Territorial en la localidad de Achacachi, Provincia Omasuyos del Departamento de La Paz, Bolivia. El primer postgrado de la Carrera de Geografía se aprueba el año 2004 con el grado de "Maestría en Geopolítica de los Recursos Naturales", 2 años más tarde el año 2005 se aprueba la segunda "Maestría en Teledetección y SIG".

Técnico Superior en Ordenamiento Territorial y Catastro: La Carrera de Técnico Superior en Ordenamiento Territorial es parte del programa de desconcentración universitaria de la Universidad Mayor de San Andrés (UMSA) que se localiza en las áreas rurales del Departamento de La Paz. En este caso el programa se localiza en la población de Achacachi, en la Provincia Omasuyos del Departamento de La Paz, a 4 horas de la ciudad de La Paz, en el Altiplano Boliviano cerca del Lago Titicaca. La Carrera de Técnico Superior en Ordenamiento Territorial es dependiente de la Carrera de Ingeniería Geográfica de la UMSA. La duración del programa es de 3 años.

Ingeniería Geográfica: La Carrera de Ingeniería Geográfica es dependiente de la Universidad Mayor de San Andrés (UMSA) localizada en la ciudad de La Paz. La Carrera de Ingeniería Geográfica otorga el grado de Ingeniero/a. La única Carrera que otorga el grado universitario en el tema de Geografía en Bolivia, en la Universidad Pública, es la Carrera de Ingeniería Geográfica de la UMSA. La duración de la Carrera es de 5 años.

El año 2013 se aprobaron las siguientes menciones: - Cambio climático, vulnerabilidad y riesgos - Geografía humana y gestión territorial - Geomática - Gestión Ambiental y Recursos Naturales - Ordenamiento Territorial y Catastro Así, el estudiante puede optar por las áreas mencionadas Maestría en Geopolítica de los Recursos Naturales: La Maestría tiene como objetivo formar recursos humanos con sólidos conocimientos en métodos, técnicas, y procedimientos de investigación que permitirán la obtención de título de Magister en Geopolítica de los Recursos Naturales. Este programa propone preparar a sus estudiantes para la docencia, la investigación, el trabajo especializado y la consultoría nacional e internacional, en los sectores público y privado. Tiene una duración de 2 años.

Maestría en Teledetección y SIG: El objetivo de la Maestría es formar profesionales de alto nivel técnico - científico, relacionados al uso de

las técnicas y herramientas de la Teledetección Espacial y los Sistemas de Información Geográfica, capaces de utilizar en el diseño, puesta en marcha, ejecución, mantenimiento y actualización de proyectos y otras actividades relativas a temática, que califiquen teórica y técnicamente en la gestión de los recursos naturales y el medio ambiente. Tiene una duración de 2 años.

PROFESORES/PROFESORAS

Se indica el nombre, áreas de interés o materias que dicta:

Msc. Erwin Galoppo von Borries, Director de Carrera, Métodos Estadísticos en Geografía

Arq. Bertha Gozvalves Kreuzer, Docente Emérito, Planificación Territorial, Geografía Urbana y Rural, Geografía Regional

Msc. Francisco Callejas, Docente Titular, Sociología y Geografía de la Población

Ing. Edwin Machaca, Docente Titular, Geología

Ing. Edmundo Flores, Docente Titular, Climatología e Hidrología

Ing. Raul Ayala, Docente Titular, Evaluación de Impactos Ambientales, Conservación el Medio Ambiente

Lic. Roberto Viscate, Docente Titular, Métodos de Investigación, Estadística

Ing. Oscar Vidaurre, Docente Titular, Ecología, Biogeografía

PhD. Yuri Sandoval, Docente Titular, Sistemas de Información Geográfica

Lic. Raul Salas Piludo, Docente Titular, Biología

Ing. José Pedro Rivera, Docente Titular, Informatica

PhD. Vladimir Orsag, Docente Titular, Edafología

Ing. Nelson Aban, Docente Titular, Geomorfología

Ing. Juan José Flores, Docente Titular, Geografía Económica

Msc. Javier Nuñez Villalba, Docente Titular, Fotointerpretación, Percepción Remota

BRASIL

ASSOCIAÇÃO DE GEÓGRAFOS BRASILEIROS

TYPE OF INSTITUTION: Sociedade profissional/

Associação científica

PRIMARY ACTIVITY: Pesquisa

DATE OF FOUNDATION: 1934

PUBLICATIONS: Revista Terra Livre

WEBSITE: www.agb.org.br

FOR INFORMACION CONTACT: Nelson Rego (Porto Alegre), Presidente, Avenida Professor Lineu Prestes, número 338, CEP 05.508-970, bairro Cidade Universitária, São Paulo, Estado de São Paulo, São Paulo, Brasil, nacional@agb.org.br

MISSION: História da AGB A Associação dos Geógrafos Brasileiros (AGB) foi fundada por Pierre Deffontaines, em São Paulo, em 1934, no mesmo ano em que se iniciava os cursos de Geografia e História na Faculdade de Filosofia, Ciências e Letras da Universidade de São Paulo (FFCL/USP). Desde o seu surgimento a AGB congregou intelectuais de renome como: Caio Prado Junior, Luiz Fernando Moraes Rego, Rubens Borba de Moraes e Pierre Monbeig. Em 1944, AGB passou a se constituir em uma entidade de dimensões nacionais, que possuía sócios, profissionais, estudantes e colaboradores em todo o território brasileiro. As primeiras seções regionais foram criadas nos estados do Rio de Janeiro, Minas Gerais, Paraná, Pernambuco e Bahia. Em 1946, a AGB realizou em Lorena, São Paulo, a sua primeira reunião nacional, sucedida até 1955 por inúmeras reuniões anuais. Em 1956, a AGB promoveu o XVIII Congresso Internacional de Geografia da União Geográfica Internacional (UGI). Até o início dos

anos 70 a AGB era caracterizada como uma associação de pesquisadores. Mas no final dos anos 70 (1978), na reunião anual realizada em Fortaleza, Ceará, a AGB estimulada pelo crescimento do movimento estudantil brasileiro, passou por uma renovação de sua perspectiva organizacional, que se refletiu no processo de reformulação de seu estatuto que a tornou uma associação mais integrada à luta pelos direitos humanos e ao debate político e democrático da sociedade. A história institucional da AGB está integrada à história da Geografia e do pensamento geográfico brasileiro, não havendo sentido em falar do pensamento geográfico sem citá-la. Dentre seus objetivos está a promoção do conhecimento científico a partir da troca de idéias de seus associados. Isso acontece nas reuniões regulares da Associação, nos fóruns de discussão e demais grupos de estudo. O diálogo se dá também por meio das publicações que mantemos. Boa parte da produção científica da Geografia brasileira encontra-se publicada em Anais de seus Congressos e Encontros. A AGB também é responsável pelas edições da Revista Terra Livre e do Jornal AGB Em Debate. As Seções Locais são responsáveis pela publicação de várias revistas científicas como: o Boletim Paulista de Geografia, que completou 50 anos em 1999, o mais antigo em circulação; o Boletim Gaúcho de Geografia; o Prudentino de Geografia; o Fluminense de Geografia; e o Amazonense de Geografia. A AGB é uma entidade civil, sem fins lucrativos, que reúne geógrafos, professores e estudantes de Geografia preocupados com a promoção do conhecimento científico, filosófico, ético, político e técnico da Geografia para que se possa oferecer à crítica da sociedade uma abordagem geograficamente consistente dos seus/nossos problemas, com o intuito de aperfeiçoar do debate científico da Geografia e que se interessem pelo desenvolvimento de alternativas e iniciativas de promoção do bem-estar social. Nesse sentido, a AGB tem procurado reunir todos aqueles que entendem ser a Geografia uma das dimensões fundamentais da aventura do homem na superfície da Terra. Uma Diretoria Executiva Nacional e as várias Seções Locais (com eleições a cada dois anos), formam a estrutura e o corpo da AGB que, com operação com órgãos similares, irradiam suas atividades por todo o país. Destaca-se entre seus objetivos: Promover o desenvolvimento da Geografia, pesquisando e divulgando assuntos geográficos; Estimular o estudo e o ensino da Geografia, propondo medidas para seu aperfeiçoamento; Manter intercâmbio e colaboração com outras entidades brasileiras e internacionais dedicadas à pesquisa geográfica ou de interesse correlato; Analisar atos dos setores públicos ou privados que interessem e envolvam a ciência geográfica, os geógrafos e as instituições de ensino e pesquisa da Geografia, e manifestar-se a respeito; Congregar os geógrafos, professores e estudantes de Geografia e demais interessados, pela defesa e prestígio da classe e da profissão; Promover encontros, congressos, exposições, conferências, simpósios, cursos e debates, bem como o intercâmbio profissional; Representar o pensamento de seus sócios, junto aos poderes públicos e às entidades de classe, culturais ou técnicas. 2. Ata de Fundação - 17 Setembro 1934 "Em 17 de setembro de 1934, à Av. Angélica, 133, os Srs. Pierre Deffontaines, Luiz Flores de Moraes Rego, Rubens Borba de Moraes e Caio Prado Jr, resolveram os presentes fundar uma sociedade de estudos geográficos denominada Associação dos Geógrafos Brasileiros. Esta Associação terá por fim: 1º. Reuniões periódicas dos membros com exposição de um assunto de Geografia brasileira por um dos membros, seguida de discussão. 2º. Organização de excursões em comum para estudo de uma questão. 3º. Constituição de uma biblioteca especializada em Geografia, por colaboração dos membros e doações (livros, revistas e cartas). O Sr. Caio Prado Junior foi indicado para secretário, cabendo-lhe redigir as atas e ficando a seu cargo os demais serviços da secretaria. Para presidente foi indicado o Prof. Pierre Deffontaines. Para tesoureiro o sr. Rubens Borba de Moraes. A organização da biblioteca e do fichário com indicação de todos os livros, revistas e cartas existentes nas bibliotecas de São Paulo ficou a cargo dos srs Rubens Borba de Moraes e Caio Prado Junior. As reuniões serão realizadas na primeira e terceira segunda feira de cada mês, às 20 horas e meia na residência do Prof Deffontaines - Av Angélica, 133. A primeira reunião ordinária fica fixada para o dia 1º de Outubro. As reuniões se comporão de duas partes: 1º. Exposição e discussão. A exposição durará no máximo

meia hora. 2º. Relatório de livros e artigos de Geografia. As comunicações poderão ser feitas em português ou francês. As contribuições dos membros serão recolhidas pelo tesoureiro. Cada membro terá completa liberdade para fixação da sua quota. Caberá ao tesoureiro indagar de cada um, individualmente, o montante de sua contribuição. Foram propostos e aceitos como objetivos a serem tratados, os seguintes assuntos: 1º. Esquema de um programa para o estudo do solo em S. Paulo, pelo sr Moraes Rego - 1º. de Outubro. 2º. Etapas do povoamento de S. Paulo no XVI e XVII secs. pelo sr. Rubens de Moraes - 6 de Novembro. 3º. As formas karsticas no vale do Ribeira do Iguape, pelo sr. Moraes Rego. Data a ser fixada. 4º. Ensaio dos tipos de povoamento no Estado de S. Paulo, pelo Prof Deffontaines. 15 de Novembro, digo Outubro. 5º. Ensaio de divisão regional de S. Paulo, pelo Prof Deffontaines. Data a ser fixada. 6º. Contribuição ao estudo da repartição da propriedade fundiária rural no Est. de S. Paulo, pelo sr. Caio Prado Junior. 19 de Novembro. Ficou deliberado que os novos membros da Associação seriam indicados de comum acordo, pelos membros efetivos. E para constar, eu, secretário, redigi esta ata que vai assinada pelos membros fundadores presentes. CAIO PRADO JR LUIZ FLORES DE MORAES REGO PIERRE DEFFONTAINES RUBENS BORBA DE MORAES

Estrutura e Organização: Da Estrutura Administrativa Art. 10 - A AGB será organizada nos níveis nacional e local. Art. 11 - A nível nacional será constituída pela Assembléia Geral Nacional, pelas Reuniões da Gestão Coletiva e administrada pela Comissão Diretora, composta pelos Diretores de Seções Locais ou por quem regularmente o substitui e pela Diretoria Executiva Nacional. Art. 12 - A nível local, denominada Seção Local, será constituída pela Assembléia Geral Local e administrada por uma Diretoria Executiva Local. Art. 13 - Os membros de qualquer cargo de direção da AGB, a nível nacional e local, não receberão qualquer remuneração.

Propósito da Organização: A AGB é uma entidade civil, sem fins lucrativos, que reúne geógrafos, professores e estudantes de Geografia preocupados com a promoção do conhecimento científico, filosófico, ético, político e técnico da Geografia para que se possa oferecer à crítica da sociedade uma abordagem geograficamente consistente dos seus/nossos problemas, com o intuito de aperfeiçoar do debate científico da Geografia e que se interessem pelo desenvolvimento de alternativas e iniciativas de promoção do bem-estar social. Nesse sentido, a AGB tem procurado reunir todos aqueles que entendem ser a Geografia uma das dimensões fundamentais da aventura do homem na superfície da Terra. Uma Diretoria Executiva Nacional e as várias Seções Locais (com eleições a cada dois anos), formam a estrutura e o corpo da AGB que, com operação com órgãos similares, irradiam suas atividades por todo o país. Destaca-se entre seus objetivos: Promover o desenvolvimento da Geografia, pesquisando e divulgando assuntos geográficos; Estimular o estudo e o ensino da Geografia, propondo medidas para seu aperfeiçoamento; Manter intercâmbio e colaboração com outras entidades brasileiras e internacionais dedicadas à pesquisa geográfica ou de interesse correlato; Analisar atos dos setores públicos ou privados que interessem e envolvam a ciência geográfica, os geógrafos e as instituições de ensino e pesquisa da Geografia, e manifestar-se a respeito; Congregar os geógrafos, professores e estudantes de Geografia e demais interessados, pela defesa e prestígio da classe e da profissão; Promover encontros, congressos, exposições, conferências, simpósios, cursos e debates, bem como o intercâmbio profissional; Representar o pensamento de seus sócios, junto aos poderes públicos e às entidades de classe, culturais ou técnicas.

MEMBERS: Seções Locais da AGB A AGB possui várias Seções Locais (com eleições a cada dois anos), que operam e irradiam suas atividades por todo o país, são elas:

Seção Local Aquidauana: aquidauana@agb.org.br
Seção Local Aracaju: aracaju@agb.org.br
Seção Local Baixo Amazonas: baamazonas@agb.org.br
Seção Local Bauru-SP: atendimento@agbbauru.org.br
Seção Local Belém - PA:

Seção Local Belo Horizonte: bh@agb.org.br
 Seção Local Cáceres: caceres@agb.org.br
 Seção Local Campinas: campinas@agb.org.br
 Seção Local Campina Grande: capinagrande@agb.org.br
 Seção Local Campo Grande: campogrande@agb.org.br
 Seção Local Catalão: catalao@agb.org.br
 Seção Local Cuiabá: agb-cuiaba@yahoo.com.br
 Seção Local Curitiba-PR: curitiba@agb.org.br
 Seção Local Distrito Federal: distritofederal@agb.org.br
 Seção Local Dourados: dourados@agb.org.br
 Seção Local Fortaleza-CE: fortaleza@agb.org.br
 Seção Local Florianópolis: agbflorianopolis@gmail.com
 Seção Local Guarabira: guarabira@agb.org.br e alternativo agbguarabira@gmail.com
 Seção Local Goiânia: goiania@agb.org.br
 Seção Local Jataí-GO: agbjatai@yahoo.com.br
 Seção Local João Pessoa: agbjoapessoa@yahoo.com.br
 Seção Local Juiz de Fora-MG: agbjuizdefora@gmail.com
 Seção Local Manaus: manaus@agb.org.br
 Seção Local Marechal Cândido Rondon-PR: mcrondon@agb.org.br
 Seção Local Niterói-RJ: niteroi@agb.org.br; agbniteroi@yahoo.com.br
 Seção Local Porto Alegre-RS: portoalegre@agb.org.br
 Seção Local Presidente Prudente-SP: prudente@agb.org.br
 Seção Local Recife-PE: recife@agb.org.br ou agbrecife@gmail.com
 Seção Local Rio Branco: riobranco@agb.org.br
 Seção Local Rio de Janeiro-RJ: rio@agb.org.br
 Seção Local São Paulo: saopaulo@agb.org.br
 Seção Local Três Lagoas: treslagoas@agb.org.br
 Seção Local Uberaba: uberaba@agb.org.br
 Seção Local Viçosa-MG: vicos@agb.org.br
 Seção Local Vitória-ES: agb.vitoria@gmail.com

EVENTO ANUAL:

http://www.agb.org.br/index.php?option=com_content&view=article&id=52&Itemid=45 (2500 a 5000 participantes cada ano)

ASSOCIAÇÃO PROFISSIONAL DE GEÓGRAFOS DE SANTA CATARINA

TYPE OF INSTITUTION: Sociedade profissional/
 Associação científica, Sociedade civil sem fins econômicos

PRIMARY ACTIVITY: Comunicação / networking, Defesa dos interesses dos Geógrafos Profissionais do Estado de Santa Catarina

WEBSITE: www.aprogeosc.blogspot.com

DATE OF FOUNDATION: 28 de novembro de 2008

FOR INFORMATION CONTACT: Marcos Piovezan, Diretor-Presidente, Rua das Cerejeiras, 255 - Carvoeira Florianópolis - SC CEP 88040/510 www.aprogeosc.blogspot.com e-mail: contato@aprogeosc.com.br, Telefones: (48) 9947-3026 (48) 3879-2120, e-mail: contato@aprogeosc.com.br

STRUCTURE AND DESCRIPTION OF ORGANIZATION: DA ESTRUTURA DA ENTIDADE DAS ASSEMBLÉIAS GERAIS ART. 11º - As Assembléias Gerais Ordinárias e Extraordinárias são instâncias máximas da entidade e soberanas em suas resoluções. PARÁGRAFO - 1º - As sessões das Assembléias Gerais Ordinárias serão anunciadas com 30 (trinta) dias de antecedência, através de edital e reunir-se-ão com um mínimo de dois terços dos Associados em primeira convocação, ou com qualquer número, em segunda convocação, 30 minutos após a primeira, deliberando por maioria dos

votos, pelo número de presentes. PARÁGRAFO - 2º - Para as deliberações que tratem da destituição dos administradores ou alteração do estatuto é exigido o voto concorde de dois terços dos presentes à assembléia especialmente convocada para esse fim, não podendo ela deliberar, em primeira convocação, sem a maioria absoluta dos associados, ou com menos de um terço nas convocações seguintes. PARÁGRAFO - 3º - As sessões das Assembléias Gerais Extraordinárias serão anunciadas com 7 (sete) dias de antecedência, através de edital. Realizar-se-ão com um mínimo de dois terços dos Associados em primeira convocação, ou com qualquer número, em segunda convocação, 30 minutos após a primeira deliberando por maioria dos votos, pelo número de presentes. PARÁGRAFO - 4º - As Assembléia Gerais ocorrerão, no mínimo, a cada seis meses. PARÁGRAFO - 5º - As Assembléias Gerais serão convocadas pelo Presidente da Diretoria Executiva ou por maioria dos Associados em dia com suas obrigações, garantindo-se a um quinto dos associados em dia com suas obrigações o direito de provê-la. ART. 12º - Os trabalhos das Assembléias Gerais serão presididos pela Diretoria Executiva. ART. 13º - Compete à Assembléia Geral: a) Eleger e empossar os membros da Diretoria; b) Emendar ou reformar este estatuto nos termos do artigo 25; c) Deliberar sobre assuntos de sua competência previstos neste estatuto e outras matérias que lhe sejam encaminhadas pela Diretoria ou pelos associados; d) Apreciar relatórios, balanços, autorizar a alienação, vendas ou permutas de bens móveis e imóveis.

PURPOSE OF ORGANIZATION: ART. 1º - A ASSOCIAÇÃO PROFISSIONAL DOS GEÓGRAFOS DO ESTADO DE SANTA CATARINA - APROGEO-SC - é uma sociedade civil, sem fins econômicos, regendo-se pelo presente Estatuto e tendo por objetivos: a) Representar perante as autoridades administrativas, legislativas, judiciárias e demais instituições de caráter público ou privado os interesses individuais e coletivos dos associados, em relação à categoria profissional representada pela Associação; b) Promover a defesa e a divulgação da profissão de Geógrafo, bem como o desenvolvimento da Geografia Aplicada; c) Apoiar grupos autônomos na pesquisa científica e na investigação tecnológica no âmbito profissional; d) Promover o desenvolvimento das categorias pertinentes à Lei 6.664/79 no que se refere a: a) reconhecimentos, b) levantamentos, c) estudos, d) pesquisas, e) arbitramentos e f) na organização, planejamento e disseminação da informação geográfica nos campos específicos da Geografia, entendida no sentido amplo em que abrange o conjunto das operações geográficas relativas à topografia, geodésia, cartografia, geomática, fisiografia, biogeografia, recursos hídricos, antropogeografia, geoeconomia, Geografia Legal e divulgação/disseminação da informação que, direta ou indiretamente conduzem à caracterização do evento no espaço geográfico. e) Propugnar pela defesa e ampliação do mercado de trabalho do Geógrafo e pela sua remuneração justa e condigna, atuando junto às entidades públicas e privadas, firmando convênios ou utilizando quaisquer outras formas de ação que possibilitem estes objetivos; f) Colaborar com o Estado como órgão técnico e consultivo, no planejamento, no estudo e solução dos problemas geográficos; g) Zelar pelo cumprimento do Código de Ética Profissional; h) Promover, em princípio, anualmente, uma Reunião-Consulta sobre Geografia, procurando debater temas pertinentes aos interesses de Geógrafos de órgãos oficiais e particulares; i) Participar de congressos, reuniões, conferências e exposições de interesse dos associados; j) Manter intercâmbio informativo-cultural com entidades estaduais, nacionais e internacionais de atividades afins; l) Proporcionar facilidades para constituição e funcionamento de comissões de estudo, particularmente quando designadas nas reuniões de consulta.

PROGRAMS OFFERED: METAS 2011 - Atuar na defesa das atribuições dos Geógrafos, dentro do Sistema CONFEA; - Participação na elaboração da Matriz do Conhecimento Geográfico (Resolução 1.012) - Deliberar funções para cada membro da APROGEO/SC, bem como, estipular prazos e acompanhá-los passo-a-passo; - Maior presença na Câmara da Agrimensura, que cuida dos

interesses do Geógrafo dentro do nosso Conselho Regional - CREA/SC; - Divulgar a APROGEO/SC, para os futuros Geógrafos nas instituições de ensino, em jornais, programas de TV, entre outras formas de publicações; - Palestrar nos centros de ensino, como forma de identificação da associação para os Geógrafos e futuros profissionais; - Cadastramento de pessoas interessadas em ajudar nos procedimentos burocráticos da APROGEO/SC; - Contactar diretorias das demais Associações em prol dos Geógrafos, em todo território nacional; - Estabelecer parcerias com outras entidades, associações, instituições, empresas, etc;- Elaborar material de divulgação (cartazes, panfletos, folders); - Curso de Capacitação para o Geógrafo sobre atuação no mercado de trabalho.

MEMBERS: Sanata Catarina, unidade da Federação do Brasil.

UNIVERSIDADE DE BRASÍLIA

DEPARTAMENTO DE GEOGRAFIA

FUNDADO: 01 de fevereiro de 1972

PROGRAMAS: Bacharelado, Mestrado, Doutorado, Licenciatura Presencial, Licenciatura (à Distância)

URL PROGRAMA ON-LINE:

<http://www.serverweb.unb.br/matriculaweb/graduacao/curriculo.aspx?cod=3859> e

http://vsites.unb.br/ih/novo_portal/portal_gea/lsie/revista/revista_index.htm

CONTATO PROGRAMA DE BACHARELADO:

Fernando Luiz Araújo Sobrinho, geografia@unb.br; flsobrinho@unb.br

CONTATO PROGRAMA DE POS GRADUACAO:

Roberto Arnaldo Trancoso Gomes, posgea@unb.br; robertogomes@unb.br

CENTROS DE PESQUISA: Instituto de Ciências Humanas

SITE DA INTERNET:

http://vsites.unb.br/ih/novo_portal/portal_gea/index.html e <http://www.posgea.unb.br/site/index>

CONTATO PARA MAIS INFORMAÇÕES: Fernando Luiz Araújo Sobrinho, Chefe de Departamento, Brasília, Telefone: 0xx61.3107.7253, geografia@unb.br; flsobrinho@unb.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA:

APRESENTAÇÃO O curso de Geografia na Universidade de Brasília é ministrado há 46 anos. Desde a sua criação consolidou-se como grande formador de profissionais no mercado local e nacional. Atualmente, o curso conta com cerca de 500 alunos. Nos últimos anos, as disciplinas oferecidas pelo Departamento têm tido grande procura por parte de alunos de outros cursos, como por exemplo Geologia, Engenharia Florestal, Sociologia, Turismo, Ciências Sociais, Ciências Ambientais, dentre outros.

HABILITAÇÕES O Departamento de Geografia oferece habilitações na área de Licenciatura a Bacharelado. Para ambas habilitações, o total mínimo de créditos para a formatura é de 168. Para a conclusão do curso, o aluno deve permanecer na faculdade no mínimo 6 semestres, e no máximo 14. Ao exceder esse limite o aluno entra em processo de desligamento. O aluno pode optar por fazer as duas opções de habilitação, sendo que, uma determinada disciplina, por exemplo, não necessariamente inclui-se nas duas opções. Há também oferta de curso de licenciatura em Geografia pelo sistema Universidade Aberta do Brasil, na modalidade à distância com duração de 8 semestres.

OBJETIVOS DO CURSO O curso visa a formação de professores da educação em diversos níveis, bacharéis com atuação em diversas áreas da Geografia e pesquisadores. O aluno formado em Licenciatura pode

exercer sua profissão sendo professor dos níveis fundamental, médio e superior, tanto em instituições públicas quanto privadas. Com o Bacharelado concluído, o aluno torna-se apto a entrar no mercado de trabalho como pesquisador e também atuar em diversas áreas técnicas como o geoprocessamento, planejamento urbano, gestão do uso do solo e território, avaliação de impacto ambiental, dentre outras áreas de trabalho, podendo trabalhar em diversos órgãos, prestando consultoria ou através de empresas privadas.

O ESTUDANTE DE GEOGRAFIA O estudante de Geografia necessariamente deve ter aptidão para pesquisa, seja ela de campo ou teórica e ter grande perceptividade. Saber entender o que acontece no espaço local, regional e mundial é de suma importância.

LABORATÓRIOS O Departamento de Geografia possui diversos laboratórios que oferecem atividades de ensino, pesquisa e extensão, possibilitando a produção de conhecimento e a prática de professores e discentes. Os laboratórios que integram o GEA, são os seguintes: 1) Laboratório de Cartografia 2) Laboratório de Geografia Física Aplicada 3) Laboratório de Geoiconografias e mídias aplicadas 4) Laboratório de Climatologia 5) Laboratório de Ensino de Geografia 6) Laboratório de Análises Territoriais 7) Centro de Cartografia Aplicada e Análises Espaciais 8) Laboratório de Análises Espaciais 9) Laboratório de Geografia da Saúde 9) Laboratório Georedes.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO,

AJUDA FINANCEIRA: O aluno ingressante cumpre 168 créditos entre disciplinas obrigatórias (116 créditos), optativas (28 créditos) e módulo livre (24 créditos). A partir do segundo semestre poderá fazer dupla habilitação cumprindo para isso os créditos obrigatórios e optativos de cada área de formação. No curso de Licenciatura em Geografia (modalidade à distância), a grade é fechada contemplando os requisitos básicos para a formação de professores definidos pelo Ministério da Educação. Ao final do curso obtém o título de bacharel em Geografia e caso tenha feito a opção para dupla habilitação o de licenciado em geografia. No caso do curso EAD recebe o título de licenciado em Geografia. Todos os cursos oferecidos pelo Departamento de Geografia da UnB são gratuitos, pois são oferecidos por instituição pública de ensino federal.

PROFESSORES:

CHEFE DO DEPARTAMENTO: Fernando Luiz Araújo Sobrinho Doutor em Geografia Área de Pesquisa: Geografia do Turismo, Rede Urbana, Desenvolvimento Urbano e Regional, Geografia Regional, Geografia Urbana, Geografia Agrária.

SUBCHEFE DO DEPARTAMENTO: Osmar Abílio Diniz, Doutor em Geologia Área de Pesquisa: Geoprocessamento, Geotecnologias, Geologia, Análises territoriais, Sensoriamento Remoto e Fotointerpretação.

COORDENADOR: Juscelino Eudâmides Bezerra Doutor em Geografia Área de Pesquisa: Geografia Econômica, Geografia Agrária, Redes de produção global.

DOCENTE PERMANENTE

Dante Flávio Reis da Costa Júnior Doutor em Geografia Área de Pesquisa: Epistemologia da Geografia, História do Pensamento Geográfico, Metodologia e Métodos da Geografia, Geografia Histórica.

Ercília Torres Steinke Doutora em Geografia Área de Pesquisa: Climatologia, Geografia Física, Análises climatológicas regionais, Meteorologia.

Everaldo Batista Costa Doutor em Geografia Área de Pesquisa: Geografia Cultural, Urbana e do Turismo.

Fernando Luiz Araújo Sobrinho Doutor em Geografia Área de Pesquisa: Geografia do Turismo, Rede Urbana, Desenvolvimento Urbano e Regional, Geografia Regional, Geografia Urbana, Geografia Agrária.

Gloria Maria Vargas Doutora em Geografia Área de Pesquisa: Geografia Política e Econômica. Desenvolvimento Regional.

Hellen da Costa Gurgel Doutora em Geografia Área de Pesquisa: Geografia da Saúde, Cartografia, Geoprocessamento, Geoinformação, Cartografia aplicada ao planejamento, Políticas públicas e gestão do território.

Marli de Oliveira Sales Doutora em Pedagogia Área de Pesquisa: Metodologia do Ensino e Aprendizagem em Geografia. Elaboração e avaliação de material didático.

Juscelino Eudâmidas Bezerra Doutor em Geografia Área de Pesquisa: Geografia Econômica, Geografia Agrária, Redes de produção global.

Marília Steinberger Doutora em Economia Área de Pesquisa: Planejamento Urbano e Regional.

Mario Diniz de Araújo Neto Doutor em Geografia Área de Pesquisa: Gerenciamento de Recursos Hídricos e Zoneamento Ambiental.

Neio Lúcio Oliveira Campos Doutor em Geografia Área de Pesquisa: Planejamento Urbano.

Nelba Azevedo Penna Doutora em Geografia Área de Pesquisa: Planejamento Urbano, Geografia Humana, Educação.

Osmar Abílio de Carvalho Júnior Doutor em Sensoriamento Remoto e Fotointerpretação Área de Pesquisa: Sensoriamento Remoto e Fotointerpretação.

Rafael Rodrigues da Franca Doutor em Geografia Área de Pesquisa: Climatologia, Geografia Física, Análises climatológicas regionais, Meteorologia.

Rafael Sânzio Araújo dos Anjos Doutor em Cartografia Área de Pesquisa: Cartografia Temática, Sensoriamento Remoto para estudos urbanos, Sistemas de Informação Geográfica (SIG), monitoração e vetores de crescimento urbano, dinâmica espacial urbana no território do Distrito Federal.

Renato Fontes Guimarães Doutor em Sensoriamento Remoto e Fotointerpretação Área de Pesquisa: Cartografia, Fotointerpretação, Sensoriamento Remoto e Sistemas de Informações Geográficas.

Roberto Arnaldo Trancoso Gomes Doutor em Geografia Área de Pesquisa: Cartografia, Fotointerpretação, Sensoriamento Remoto e Sistemas de Informações Geográficas.

Rogério Elias Uagoda Doutor em Geografia Área de Pesquisa: Geomorfologia, Geologia, Geoprocessamento, Geografia Física.

Roselir de Oliveira Nascimento Doutora em Geografia Área de Pesquisa: Geomorfologia, Pedologia e Geografia Física.

Ruth Elias de Paula Laranja Doutora em Geografia Área de Pesquisa: Biogeografia, Desenvolvimento Regional e Planejamento Ambiental.

Shadia Hussein de Araújo Doutora em Geografia Área de Pesquisa: Geografia Econômica, Geografia Cultural, Geografia da Religião, Geografia da População, Geografia Política, Oriente Médio.

Valdir Adilson Steinke Doutor em Ecologia Área de Pesquisa: Geografia Física e Meio Ambiente.

Violeta de Faria Pereira Doutoranda em Geografia Área de Pesquisa: Geografia Agrária e Movimentos Sociais no campo.

Waleska Valença Manyari Doutora em Geografia Área de Pesquisa: Desenvolvimento Regional, Descentralização Industrial, Novas Territorializações.

UNIVERSIDADE DE CAXIAS DO SUL

CENTRO DE CIÊNCIAS HUMANAS E DA EDUCAÇÃO
FUNDADO: 10 de fevereiro de 1967

PROGRAMAS: Bacharelado, Licenciatura, Licenciatura (à Distância/Virtuais)

URL PROGRAMA ON-LINE:

<https://ucsvirtual.ucs.br/portais/curso191/>

<https://ucsvirtual.ucs.br/portais/curso139/>

CONTATO PROGRAMA DE BACHARELADO/POS GRADUACAO: Rozalia Brandão Torres,
 rbtorres@ucs.br

BACHARELADOS OUTORGADO ANUALMENTE:

curso em implantação, ainda sem ter ocorrido uma turma egressa

POS GRADUACAO OUTORGADO ANUALMENTE: 17

SITE DA INTERNET: <http://www.ucs.br/portais/curso191/>

CONTATO PARA MAIS INFORMAÇÕES: Fernando Ben, Diretor do Centro, Bento Gonçalves, Rio Grande do Sul, Brasil, Telefone: 5193340189, Fax: 5434495200, zaiazinn@gmail.com e rbtorres@ucs.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: Compõem, entre outras, as seguintes disciplinas presentes nos cursos de licenciatura e bacharelado em Geografia da Universidade de Caxias do Sul:

INTRODUÇÃO AO ESTUDO DA GEOGRAFIA: Ementa - Estudo das concepções do objeto e da evolução da Geografia enquanto ciência e das diferentes escolas teórico-metodológicas de interpretação do espaço geográfico, com ênfase nos conceitos básicos. O ensino de Geografia na Educação Básica e a pesquisa em Geografia.

GEOGRAFIA FÍSICA: Ementa - Estudo das diferentes teorias que explicam a origem do Universo e do Sistema Solar. Caracterização da Terra e da Lua, incluindo dimensões, orientação e localização espacial, movimentos e suas relações e consequências na natureza e no cômputo do tempo.

FUNDAMENTOS DE ESTATÍSTICA: Ementa - Estudo dos fundamentos básicos da estatística, de métodos e técnicas de coleta, da organização e análise de dados. Caracterização de população e amostragem. Estudo de medidas de tendência central e de variabilidade. Noções de regressão, correlação e séries cronológicas.

POPULAÇÃO E TERRITÓRIO: Ementa - Estudo das relações entre população, território e ideologia. Identificação e análise dos indicadores da dinâmica e da estrutura da população, com base em levantamento de dados populacionais.

GEOLOGIA GERAL E PEDOLOGIA: Ementa - Estudo da formação da Terra, suas modificações ao longo do tempo e influência dos agentes geológicos endógenos e exógenos. Caracterização e identificação dos minerais, rochas e solos.

CLIMATOLOGIA I: Ementa - Estudo dos conceitos de tempo, de clima e dos fatores meteorológicos controladores da dinâmica da circulação atmosférica. Caracterização da estrutura e composição da atmosfera.

CARTOGRAFIA GERAL: Ementa - Estudo dos conceitos cartográficos básicos e gerais para a Geografia. A evolução da cartografia e das técnicas de representação e interpretação do espaço

geográfico. Elementos cartográficos. Alfabetização, leitura e interpretação cartográficas.

GEOGRAFIA URBANA: Ementa - Estudo da paisagem urbana e do lugar. Identificação e análise da dinâmica interna da cidade. Estudo dos processos que diferenciam as cidades nos espaços regional, nacional e global. Caracterização da constituição da rede urbana. Avaliação das diferenças na urbanização de países ricos e pobres. Análise do meio urbano local.

GEOGRAFIA RURAL: Ementa - Estudo dos conceitos básicos da organização do espaço rural no Brasil e no mundo. Caracterização da organização do espaço rural, suas atividades econômicas e relações com o meio urbano. Comércio internacional de produtos primários.

CLIMATOLOGIA II: Ementa - Estudo da circulação atmosférica, da variabilidade espacial do clima e seus fatores determinantes. Aplicação da climatologia na agricultura, no meio urbano e os problemas ambientais/climáticos decorrentes da poluição atmosférica.

GEOMORFOLOGIA: Ementa - Estudo dos conceitos básicos da geomorfologia nas escalas espacial e temporal. Análise e caracterização das unidades morfoestruturais e morfoesculturais do globo e da influência da geodinâmica e do clima, respectivamente.

HIDROLOGIA: Ementa - Estudo dos conceitos básicos da hidrologia e dos ciclos da água na natureza. Caracterização das águas continentais e oceânicas. Análise das políticas públicas em relação aos recursos hídricos e do impacto da ação humana na natureza.

GESTÃO DE RECURSOS HÍDRICOS: Ementa - Gestão de Recursos Hídricos. Modelos de Gestão. Políticas e Sistemas de Recursos Hídricos Nacional e no Estadual: diretrizes e instrumentos.

GEOGRAFIA ECONÔMICA: Ementa - Estudo dos conceitos básicos do capitalismo. Caracterização e análise da Divisão Internacional do Trabalho. Avaliação do Brasil no contexto da DIT. Análise dos processos de industrialização, dos circuitos da economia e da organização do espaço geográfico.

GEOGRAFIA DO BRASIL I - Ementa - Estudo das características físico-naturais do território brasileiro, das diferentes paisagens e os seus fatores determinantes.

SENSORIAMENTO REMOTO E GEOPROCESSAMENTO: Ementa - Estudo dos conceitos básicos e das aplicações do Sensoriamento Remoto na análise do espaço geográfico. Análise dos sistemas sensores existentes e dos produtos gerados. Estudo teórico/prático de técnicas de processamento digital e de interpretação visual de imagens. Uso dos Sistemas de Informação Geográfica (SIG's) na análise espacial e suas aplicações no ensino de Geografia.

GEOGRAFIA DO BRASIL II: Ementa - Estudo da formação sócio-espacial do Brasil através da análise das transformações dos meios geográficos. Análise da organização produtiva e identificação das articulações das regiões e das diferenças regionais no território brasileiro.

CARTOGRAFIA DIGITAL: Ementa - As representações de dados geográficos. Os conceitos básicos da cartografia temática. A cartografia temática por computador: equipamentos e softwares. Técnicas de representação cartográfica de informações geográficas. Símbolos e convenções cartográficas. Os elementos cartográficos e a arte final das representações cartográficas.

BIOGEOGRAFIA: Ementa - Análise dos fatores bióticos e abióticos e a distribuição das espécies nos diversos biomas terrestres. Caracterização das Unidades de Conservação e sua biodiversidade.

ORGANIZAÇÃO DO ESPAÇO MUNDIAL I: Ementa - Estudo do conceito de região segundo diferentes concepções teórico-metodológicas. Conceituação de desenvolvimento desigual e combinado. Análise das transformações culturais e políticas do mundo contemporâneo através do conceito de organização do espaço mundial.

GEOGRAFIA DO RIO GRANDE DO SUL: Ementa - Análise da sucessão dos meios geográficos no espaço rio-grandense. Estudo do espaço físico e dos processos de ocupação e de estruturação do território gaúcho. A passagem do meio natural para o meio técnico-científico informacional. Análise da posição e da função da economia gaúcha no contexto nacional. Exame das diferenças regionais do Rio Grande do Sul e dos processos que as configuraram. A regionalização macro-econômica do Rio Grande do Sul.

GEOPOLÍTICA: Ementa - Estudo dos conceitos básicos em Geografia Política e caracterização da nova geopolítica mundial. Análise das concepções clássicas e contemporâneas de Estado e de suas relações com a distribuição do espaço. Exame da geopolítica brasileira.

GEOGRAFIA DOS PROBLEMAS AMBIENTAIS: Ementa - Estudo sobre os problemas ambientais, planejamento e impactos da organização social sobre o ambiente. Análise do uso dos recursos naturais e suas relações com a qualidade ambiental.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: Plano de Execução Curricular – Licenciatura em Geografia: 655 I Plano Curricular de Duração Média: 4 anos Reconhecido: Decreto n.º 69.347, de 11 de Outubro de 1971 (DOU de 13.10.71, p.8.235) Carga Horária Mínima CNE: 2.800 h/a (Res. CNE/CP n.º 2/2002) Carga Horária UCS: 2.670 h/a (164 créditos) + 200 h/a Ativ. Compl. 2870h/a - Res. CEPE No. 68/04 Curso de Bacharelado em Geografia: 671G (CARVI) Plano Curricular de Duração Média: 4 anos Reconhecido: Decreto n.º 69.347, de 11 de Outubro de 1971 (DOU de 13.10.71, p.8.235) Carga Horária Mínima CNE: 2.400 h/a (Res. CNE/CES n.º 8/2007) Carga Horária UCS: 2.490 h/a (166 créditos) + 100 h/a Ativ. Compl.= 2.590h/a - Res. CEPE No. 68/04

PROFESSORES: São professores das disciplinas específicas do curso: Ivanira Falcade, Doutora em Geografia - viticultura e indicações geográficas; Adriana Trinidad, Mestrado em Geografia - Análise Ambiental e Territorial; Rozalia Brandão Torres, Doutorado em Geografia - Análise Ambiental e Territorial – Representações sociais sobre os areais e mídia; Marcos Vieira Porto, Mestrado em Geologia e Geofísica Marinha - Redimensionamento do Traçado Insular do Limite Exterior da Plataforma Continental Brasileira

UNIVERSIDADE DE SÃO PAULO

DEPARTAMENTO DE GEOGRAFIA – FACULDADE DE FILOSOFIA, LETRAS E CIÊNCIAS HUMANAS - FFLCH

DATA DA FUNDAÇÃO: 1934

CURSOS OFERECIDOS: Bacharelado e Licenciatura em Geografia

CONTATO PROGRAMA DE BACHARELADO:

Emerson Galvani, egalvani@usp.br

CONTATO PROGRAMA DE LICENCIATURA: Eduardo Donizete Giroto, egiroto@usp.br

CONTATO PROGRAMA DE PÓS GRADUAÇÃO: Ligia Vizeu Barozzo, lija@usp.br

SITE DA INTERNET:

Graduação: www.geografia.ffmpeg.usp.br

Pós-Graduação em Geografia Física:

<http://sites.usp.br/posgf/>

Pós-Graduação em Geografia Humana:

<http://ppgh.ffmpeg.usp.br/>

CONTATO PARA MAIS INFORMAÇÕES: flg@usp.br

PROGRAMAS E INSTALAÇÕES DE PESQUISA: Os Laboratórios de Pesquisa em Geografia vêm desenvolvendo um trabalho complementar de apoio à Graduação - estágios supervisionados, grupos de estudo, palestras, pesquisas de iniciação científica dentre outras. O objetivo é consolidar uma rede de linhas de pesquisa que vai da graduação, com o desenvolvimento das disciplinas de Iniciação à Pesquisa, dos Estágios e Trabalhos de Graduação Individuais, à pesquisa no âmbito da pós-graduação, fazendo a ligação entre a graduação e a pós-graduação, por meio dos Laboratórios de Pesquisa.

Em termos de espaço físico o Departamento de Geografia conta com onze laboratórios descritos a seguir:

- Laboratório de Cartografia - LABCART
- Laboratório de Climatologia e Biogeografia - LCB
- Laboratório de Ensino e Material Didático - LEMADI
- Laboratório de Estudos Regionais em Geografia - LERGEO
- Laboratório de Geografia Agrária – Agrária
- Laboratório de Geografia Política - Geopo
- Laboratório de Geografia Política, Planejamento Ambiental e Territorial - LABOPLAN
- Laboratório de Geografia Urbana - LABUR
- Laboratório de Geomorfologia - LGEO
- Laboratório de Pedologia - LABOPED
- Laboratório de Sensoriamento Remoto e Aerofotogeografia - LASERE

PLANO DE ACADÊMICOS, REQUISITOS DE ADMISSÃO, E AJUDA FINANCEIRA:

Informações Básicas do Currículo

Para conclusão do bacharelado em Geografia, o aluno deverá cumprir 206 créditos, que perfazem disciplinas obrigatórias (138 créditos) e optativas (68 créditos), com a exigência de cursar 2/3 dos créditos em optativas eletivas no Departamento de Geografia, os demais créditos podem ser cumpridos em outros cursos da USP ou dentro do próprio Departamento de Geografia. Informações detalhadas sobre a grade horária do curso podem ser obtidos em: <https://uspdigital.usp.br/jupiterweb/listarGradeCurricular?codcg=8&codcur=8021&codhab=104&tipo=N>. Para a conclusão da licenciatura, além dos créditos referentes ao Bacharelado, o discente precisa cumprir 400 horas de estágio supervisionado distribuídos em 4 disciplinas, além de 400 horas de Atividades Práticas como Componente Curricular (PCC, distribuídas em diferentes disciplinas

por todo o percurso formativo. Além disso, é necessário o cumprimento de 200 horas de Atividades Teórico-Práticas de Aprofundamento (ATPA), realizadas em diferentes espaços formativos dentro e fora da universidade, tais como visita à museus, cinema, exposições, participação em eventos, etc.

A duração mínima do curso de graduação é de 4 anos, no diurno (período integral nos primeiros semestres) e de 5 anos no noturno. O curso prevê a elaboração de um Trabalho de Graduação Individual - TGI (obrigatório), que consiste na elaboração de uma monografia no último ano. O processo de ingresso no Ensino superior da Universidade de São Paulo é coordenado pela Fundação da Vestibular da USP – FUVest e nos últimos anos a instituição passou a utilizar os resultados do Processo Seleção Unificada – SISU, que tem como uma das bases os resultados obtidos na avaliação do Exame Nacional do Ensino Médio – ENEM. A USP é uma instituição pública sem cobrança de mensalidades para os cursos regulares.

O quadro de professores do Departamento de Geografia da USP pode ser obtido acessando: <http://www.geografia.ffmpeg.usp.br/> em seguida clicar em “professores”.

UNIVERSIDADE DO ESTADO DO RIO DE JANEIRO

DEPARTAMENTO DE CIÊNCIAS HUMANAS E FILOSOFIA

FUNDADO: 4 de dezembro de 1950

PROGRAMAS: Licenciatura

URL PROGRAMA ON-LINE: <http://www.cap.uerj.br/site/>

CENTROS DE PESQUISA: laboratório de ensino de geografia

SITE DA INTERNET: <http://www.cap.uerj.br/site/>

CONTATO PARA MAIS INFORMAÇÕES: Cesar Alvarez Campos de Oliveira, CHEFE DE DEPARTAMENTO, RIO DE JANEIRO, BRASIL, Telefone: (21) 2333-7872 | (21) 2333-7873 | (21) 2333-7874 | (21) 2333-7875 | (21) 2333-7876, professorfabiotadeu@gmail.com

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O Laboratório de Ensino de Geografia, instalado no CAp/UERJ, abriga o Grupo de Pesquisa em Educação Geográfica, GPEG. As linhas de pesquisa desenvolvidas pelo GPEG (Grupo de Pesquisas em Educação Geográfica) tem como foco comum o desenvolvimento de estratégias metodológicas que possam colaborar com as práticas cotidianas de Educação Geográfica nos estabelecimentos de ensino, com efeitos multiplicadores na sociedade um todo.

Linhas de Pesquisa A Metodologia de Seminários como Estratégia de Autonomização Discente Coordenador: Prof^o. Dr^o. Augusto César Pinheiro da Silva Cartografia Escolar: currículo, metodologias e recursos didáticos Coordenadores: Prof^o. Dr^o. Cesar Alvarez Campos de Oliveira e Prof^o. Ms. Ronaldo Goulart Duarte A Produção Audiovisual no Ensino Básico: a Linguagem Imagética como Recurso para a Educação Geográfica Coordenadores: Prof^o. Dr^o. Rejane Cristina de Araujo Rodrigues e Prof^o. Ms. Fábio Tadeu Santana.

UNIVERSIDADE ESTADUAL DE LONDRINA

DEPARTAMENTO DE GEOCIÊNCIAS

FUNDADO: 1961

PROGRAMAS: Associado / técnico, Bacharelado, Mestrado, Licenciatura

CONTATO PROGRAMA DE BACHARELADO: Edna ou Regina, dgeo@geo.uel.br

BACHARELADOS OUTORGADO ANUALMENTE: 40

CONTATO PROGRAMA DE POS GRADUACAO:

Anderson, spgce@uel.br

POS GRADUACAO OUTORGADO ANUALMENTE: 20

CENTROS DE PESQUISA: Centro de Ciências Exatas – CCE

SITE DA INTERNET: <http://www.geo.uel.br/>

CONTATOS PARA MAIS INFORMAÇÕES: Prof. Dr CARLOS ALBERTO HIRATA Chefe do Departamento de Geociências; Prof. Dr PEDRO RODOLFO S. VENDRAME Coordenador do Mestrado e doutorado em Geografia. Rodovia Celso Garcia Cid, Pr 445 Km 380, Campus Universitário Cx. Postal 6001, CEP 86051-980, Londrina - PR Fone: (43) 3371-4000, Fax: (43)3371-4216, e-mail: dgeo@geo.uel.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O Curso de Geografia, em Londrina, teve início em março de 1958 na então Faculdade de Filosofia Ciências e Letras, tendo sido incorporado à Universidade Estadual de Londrina em 1972. Atualmente o curso está locado no Departamento de Geociências do Centro de Ciências Exatas da UEL, ocupando dois prédios próprios, dotados de oito salas de aula, sendo que quatro delas funcionam também como laboratórios e uma é de uso exclusivo do curso de Mestrado, doze salas de permanência de professores e os seguintes Laboratórios: Informática e Sensoriamento Remoto; Informática e Geoprocessamento; Aerofoto; Topografia; Cartografia; Pesquisas Urbanas e Regionais; Geografia Física; Estudos Agrários; Pedologia; Mineralogia; Microscopia e preparação de amostras e o de Ensino de Geografia. Conta ainda com uma Biblioteca de Geologia, uma sala onde funciona o grupo PET Programa Especial de Treinamento, uma sala ocupada pela seção Local da AGB Associação dos Geógrafos Brasileiros. Conta com 5 funcionários para o atendimento a 3218 alunos. Oferece Disciplinas a outros sete cursos da Universidade: História, Ciências Sociais, Química, Agronomia, Ciências Biológicas, Engenharia Civil e Arquitetura. Oferece os seguintes cursos de pós-graduação: Lato sensu - Especialização no Ensino de Geografia e Especialização em Análise Ambiental em Ciências da Terra; Stricto sensu – Mestrado e Doutorado em Geografia. Seu corpo docente é composto por professores de diferentes formações: Geógrafos, Geólogos, Agrônomos e Engenheiros Cívicos. A qualificação de seu corpo docente tem sido uma das metas do Departamento, fato corroborado pela instalação e funcionamento de cursos de Pós-graduação.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: Geografia Habilitação: Bacharelado e Licenciatura Turno: Matutino e Noturno Duração: 4 anos O curso O curso de Geografia da UEL deve propiciar as condições para que o estudante compreenda pressupostos filosóficos e epistemológicos, bem como desenvolver a capacidade de conexão entre as áreas do conhecimento e suas repercussões no entendimento das interações espaço sociedade, além de proporcionar uma formação profissional de qualidade e adequada às necessidades e demandas atuais. Onde pode atuar Escolas de ensino médio, institutos de pesquisa e de ensino superior. Saiba mais• A matriz curricular do curso é estruturada em disciplinas de tronco comum (licenciatura e bacharelado) nos dois primeiros anos; ao final do segundo ano o estudante opta por uma das habilitações. Para o contínuo alcance dos objetivos citados o curso

disponibiliza laboratórios e acervo bibliográfico, viagens de campo coordenadas por professores no decorrer dos anos letivos, para as mais variadas regiões do Brasil e do Paraná. Os projetos de pesquisa, ensino e extensão desenvolvidos pelos professores envolvem a participação dos estudantes que aprimoram o uso de técnicas, metodologias e métodos específicos da ciência geográfica e da ciência em geral, ampliando sua formação. O curso pretende levar o estudante à investigação geográfica; identificar e discutir as diferentes escalas da Geografia; selecionar a linguagem científica adequada para o tratamento e análise da informação geográfica com ênfase na elaboração de mapeamentos; atuar como professor em conformidade com a legislação vigente.

DOCENTES: Linha de Pesquisa e Orientação

Adriana Castreghini de Freitas Pereira — Topografia

Airton Nozawa — Aerofotogrametria

André Celligoi — Gestão de recursos hídricos subterrâneos

Angelo Spoladore — Geologia, Geomorfologia, Análise ambiental, Gestão de recursos hídricos subterrâneos

Carlos Alberto Hirata — Geografia Física, Meio ambiente e Planejamento Urbano

Claudio Roberto Braguetto — Geografia industrial, Geografia regional, Geografia agrária

Cleuber Moraes Brito — Análise ambiental, Mineração e meio ambiente

Deise Fabiana Ely — Geografia física, Climatologia geográfica, Epistemologia da geografia

Edilson Luis de Oliveira — Geografia urbana, Epistemologia da geografia

Edison Archela — Geologia e geomorfologia, Ensino de geologia, Recursos hídricos subterrâneos

Eliane Tomiasi Paulino — Geografia agrária, Geografia e ensino, Análise regional, Epistemologia da geografia

Eloiza Cristiane Torres — Geomorfologia, Recursos naturais, Ensino de geografia, Dinâmica da paisagem

Fábio Cesar Alves Cunha — Planejamento urbano e regional, Geografia urbana, Análise e planejamento ambiental, Discurso e representações geográficas, Geografia e ensino

Fernanda Leite Ribeiro — Topografia

Geraldo Terceiro Correa — Biogeografia, Recursos naturais, Hidrogeografia, Geomorfologia, Análise ambiental

Ideni Terezinha Antonello — Geografia agrária, Geografia regional, Epistemologia da geografia, Ensino de geografia

Jeani Delgado Paschoal Moura — Geografia agrária, Geografia e ensino

José Paulo Peccinini Pinese — Geologia, Geomorfologia, Análise ambiental, Geografia e turismo

Luciano Nardini Gomes — Topografia, Georreferenciamento, Conservação de Solos

Márcia Siqueira de Carvalho — Geografia agrária, Geografia e ensino, Geografia da saúde, Epistemologia da geografia

Margarida de Cássia Campos — Ensino de geografia

Maria del Carmen M. H. Calvente — Geografia e ensino, Geografia e turismo

Mirian Vizintim F. Barros — Geoprocessamento, Sensoriamento remoto, Planejamento urbano e regional, Análise ambiental

Nilson Cesar Fraga — Planejamento Urbano e Regional, Análise Ambiental, Território, Rede e Poder, Meio Ambiente e Desenvolvimento

Oswaldo Coelho Pereira Neto — Geoprocessamento

Pedro Rodolfo S. Vendrame — Pedologia e Solos

Rigoberto Lazaro Prieto CAINZOS — Geoprocessamento, Uso/ocupação do Solo, Geoprocessamento aplicado à Análise Ambiental

Rosana Figueiredo Salvi — Epistemologia da Geografia

Rosely Maria de Lima — Geomorfologia, Hidrogeografia, Planejamento urbano e regional, Geografia e ensino, Análise ambiental

Ruth Youko Tsukamoto — Geografia agrária, Geografia e ensino

UNIVERSIDADE ESTADUAL DO OESTE DO PARANÁ

DEPARTAMENTO DE GEOGRAFIA

FUNDADO: 02 de novembro de 1996

PROGRAMAS: Mestrado, Licenciatura

URL PROGRAMA ON-LINE:

<http://portalpos.unioeste.br/index.php/geografia-m-c-rondon>

CONTATO PROGRAMA DE BACHARELADO: Karin

Linete Hornes rondon.col.geografia@unioeste.br

CONTATO PROGRAMA DE POS GRADUACAO:

Ericson Hideki Hayakawa,

rondon.pos.geografia@unioeste.br mestradogeografia.mc.rondon@gmail.com

CENTROS DE PESQUISA: Centro de Ciências Humanas,
Educação e Letras

SITE DA INTERNET:

<http://portalpos.unioeste.br/index.php/geografia-m-c-rondon>

CONTATO PARA MAIS INFORMAÇÕES: Edilson Hobold,
Chefe de Departamento, Marechal Cândido Rondon, Telefone: 45
32847852, rondon.cchel@unioeste.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA:

APRESENTAÇÃO O curso de Geografia na Universidade Estadual do Oeste do Paraná, campus Marechal Cândido Rondon, é ministrado há 21 anos. Desde a sua implantação tomou-se o cuidado para que o curso buscasse desenvolver plenamente as atividades de ensino além de envolver-se com a pesquisa e a extensão. Atualmente, o curso conta com 102 alunos. **HABILITAÇÕES** O Curso de Geografia oferece habilitação na área de Bacharelado. O curso tem duração de 4 anos, podendo ser concluído em no máximo 7 anos. **OBJETIVOS DO CURSO** Tendo como pressuposto que a Geografia estuda a interação sociedade-natureza e espaço-sociedade, a formação profissional nesta área tem como objetivo capacitar para a compreensão dos elementos e processos constituintes do espaço, de forma totalizante e dinâmica. Quanto à licenciatura capacitar para a formação de professores de Geografia do Ensino Fundamental e Médio priorizando a discussão teórico-metodológica e sua aplicabilidade para a compreensão e construção de conhecimentos e habilidades voltadas à sua formação como professor. **O ESTUDANTE DE GEOGRAFIA** De acordo com as Diretrizes Curriculares Nacionais para os cursos de Geografia o profissional desta área deve ter como perfil geral: “Compreender os elementos e processos concernentes ao meio natural e ao construído, com base nos fundamentos filosóficos, teóricos e metodológicos da Geografia”. Neste sentido o licenciado deverá possuir as seguintes habilidades e competências:

- Domínio teórico-metodológico do conhecimento na área, que estimule sua capacidade de encontrar respostas às problemáticas com as quais se defronta no seu contexto de atuação e competência para promover a construção neste;
- Capacidade no enfrentamento dos problemas que emergem no grupo com o qual trabalha, contribuir na emergência das potencialidades e projetos deste grupo e na sua transformação em ação de desenvolvimento com base em ações e reflexões conjuntas.

Assim sendo, é fundamental desenvolver, no acadêmico, a capacidade de buscar informações, a curiosidade e o gosto pelo aperfeiçoamento pessoal e profissional. Os atributos do profissional em Geografia

devem proporcionar-lhe uma postura crítica e de abertura para o novo em sua profissão, no sentido de que embora exista um campo de atuação previamente definido com base na área do saber, isto não significa limite intransponível, mas diante da dinâmica da vida social e das descobertas e avanços proporcionados pela pesquisa científica, a área de atuação pode ser ampliada e a eficácia do profissional torna-se maior, valorizando-se a criatividade humana. **LABORATÓRIOS** O Curso de Geografia possui diversos laboratórios que oferecem atividades de ensino, pesquisa e extensão, possibilitando a produção de conhecimento e a prática de professores e discentes. Os laboratórios que integram o Curso, são os seguintes: 1) LEG-Laboratório de Ensino em Geografia 2) Laboratório GEOLUTAS 3) Laboratório de Cartografia e Geoprocessamento 4) LEDA-Laboratório de Estudos da Dinâmica Ambiental 5) GEA-Grupo Multidisciplinar de Estudos Ambientais 6) GEFTA-Grupo de Estudos sobre Fronteira, Território e Ambiente

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: o aluno ingressante cumpre 00 disciplinas obrigatórias, e tem 0 disciplinas optativas. Ao final do curso obtém o título de licenciado em Geografia. O curso é gratuito, pois é oferecido por instituição pública de ensino estadual.

PROFESSORES:

CHEFE DO DEPARTAMENTO: Karin Linete Hornes

SUBCHEFE DO DEPARTAMENTO: José Edézio da Cunha. Doutor em Geografia. Área de pesquisa: Geografia Física. Tem experiência na área de Geografia, com ênfase na relação solo - relevo para a compreensão da paisagem. Atua principalmente nos seguintes temas: estrutura e funcionamento da paisagem, erosão hídrica, análise ambiental.

COORDENADOR: Karin Linete Hornes. Doutora em Geografia

DOCENTE PERMANENTE:

Djoni Roos, Doutor em Geografia — Tem experiência na área de Geografia com ênfase em Geografia Agrária e Geografia Econômica. Possui pesquisas nos seguintes temas: Campesinato, Renda Capitalista da Terra, Conflitos no Campo, Movimentos Sociais, Luta pela Terra e Assentamentos rurais. É coordenador do laboratório de Geografia das Lutas no Campo e na Cidade (GEOLUTAS).

Edson dos Santos Dias, Doutor em Geografia — área de pesquisa: Geografia Humana, com ênfase em Geografia Regional e Meio Ambiente, atuando principalmente nos seguintes temas: novas configurações territoriais decorrentes da implantação de usinas hidrelétricas; grandes projetos de investimento e suas consequências socioambientais; PCH - pequenas centrais hidrelétricas; Energia e Sociedade.

Ericson Hideki Hayakawa, Doutor em Geografia — Desenvolve projetos na área de geotecnologias (sensoriamento remoto e geoprocessamento) e suas aplicações em geografia e geociências

Fábio de Oliveira Neves, Doutor em Geografia — Tem experiência na área de Geografia Humana, atuando principalmente nos temas de: geografia urbana e gestão de resíduos sólidos.

João Edmilson Fabrini, Doutor em Geografia — Possui artigos científicos e livros publicados sobre movimentos sociais, lutas camponesas, assentamentos de sem-terra, reforma agrária, cooperativas agrícolas.

Karin Linete Hornes, Doutora em Geografia.

Leila Limberger, Doutora em Geografia — Área de pesquisa: Geografia Física. Tem experiência na área de Geociências, atuando principalmente nos seguintes temas: teleconexões, TSM, variabilidade climática, bacia amazônica.

Lia Dorotéa Pfluck, Doutora em Geografia.

Márcia Regina Calegari, Doutora em Geografia — Área de Concentração: Produção do Espaço e Meio Ambiente - Linha: Dinâmica, Utilização e Preservação do Meio Ambiente e no programa de Mestrado em Geografia da Universidade Estadual do Oeste do Paraná - Campus de Marechal Cândido Rondon - Área de Concentração: Espaço de fronteira: território e ambiente

- Linha: Dinâmica e gestão ambiental em zona subtropical. Tem experiência em análise de assembleia de fitólitos aplicada em estudos ambientais (reconstituição paleoambiental), também atua na área de Geociências, com ênfase em Pedologia, principalmente nos seguintes temas: gênese de solo, o solo como registro de mudanças ambientais, relação solo-paisagem (análise estrutural da cobertura pedológica) e morfopedologia.

Maristela Ferrari, Doutora em Geografia — Tem experiência na área de pesquisa e Ensino em Geografia. Seus temas de maior interesse estão relacionados a Geografia Humana, com ênfase em Geografia Política e Regional, atuando principalmente nos seguintes temas: Geografia Política e da Fronteira.

Marli Terezinha Szumilo Schlosser, Doutora em Geografia — Tem experiência na área de História e Geografia, atuando principalmente nos temas: discurso, esquete, colonização, rádio, modernização, agroecologia e Educação do campo.

Mateus Marchesan Pires, Doutor em Geografia — Tem experiência na área de Geografia, com ênfase em Ensino de Geografia, Linguagens no Ensino de Geografia, Representações e Imagem.

Oscar Vicente Quinonez Fernandez, Doutor em Geografia.

Tarcísio Vanderlinde, Doutor em História — Tem experiência nas áreas de Geografia e História, com ênfase em agroecologia, migrações, identidades e religiosidades.

Terezinha Corrêa Lindino, Doutora em Educação — Tem experiência na área de Educação, com ênfase em Orientação Educacional, atuando principalmente nos seguintes temas: Educação e Trabalho, Políticas Educacionais, Formação de Professores, Educação Ambiental, Qualificação Docente e Ensino em Ciências.

Vanda Moreira Martins, Doutora em Geografia — ÁREA DO CONHECIMENTO EM QUE ATUA: Geografia Física-Pedologia-Geomorfologia.

UNIVERSIDADE ESTADUAL PAULISTA "JÚLIO DE MESQUITA FILHO"

**DEPARTAMENTO DE GEOGRAFIA E
DEPARTAMENTO DE PLANEJAMENTO
TERRITORIAL E GEOPROCESSAMENTO
FUNDADO: 1958**

PROGRAMAS: Bacharelado, Mestrado, Doutorado,
Licenciatura

URL PROGRAMA ON-LINE:

<http://www.rc.unesp.br/igce/grad/geografia/informacoes.php>

CONTATO PROGRAMA DE BACHARELADO: Prof. Dr.

Auro Aparecido Mendes, auroam@rc.unesp.br

BACHARELADOS OUTORGADO ANUALMENTE: 30

CONTATO PROGRAMA DE POS GRADUACAO: Prof.

Dr. Antônio Carlos Tavares, atavares@rc.unesp.br

POS GRADUACAO OUTORGADO ANUALMENTE: 20

CENTROS DE PESQUISA: LABORATÓRIO DE APOIO

AO ESTUDO DA GEOGRAFIA - LAEGE;

LABORATÓRIO DE CLIMATOLOGIA;

LABORATÓRIO DE ESTUDOS TERRITORIAIS

(LAET); Planejamento Municipal (LPM); Observatório

Territorial; Laboratório de Análises de Formações

Superficiais - LAFS; Laboratório de Geomorfologia

SITE DA INTERNET:

<http://www.rc.unesp.br/igce/grad/geografia/>

CONTATO PARA MAIS INFORMAÇÕES: Prof. Dr. Auro Aparecido Mendes, Coordenador do Curso de Geografia, Rio Claro, São Paulo, Brasil,
Telefone: +55 (19) 3526-9204, auroam@rc.unesp.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O Curso de Geografia do IGCE – UNESP/Campus de Rio Claro foi implantado em 1958 e é considerado um dos mais tradicionais e conceituados do Brasil. Compreende duas modalidades: Licenciatura (Períodos Integral e Noturno) e Bacharelado (Período Integral). O curso é gratuito e dispõe de 40 vagas em cada período; os prazos para integralização curricular são de 4 anos (tanto para o Período Integral, quanto para o Noturno). A modalidade Bacharelado apresenta três possibilidades de formação: a) Bacharelado com Ênfase em Análise Ambiental e Geoprocessamento; b) Bacharelado com Ênfase em Análise Sócio-Espacial e Planejamento Territorial; c) Bacharelado Regular (sem ênfase). O programa do curso consiste em um núcleo comum, abrangendo os quatro primeiros semestres, que contém as disciplinas de conteúdo geográfico básico, e de atividades específicas, nos semestres seguintes, conforme a modalidade escolhida. São considerados os conceitos sobre a produção do espaço na perspectiva de um desenvolvimento que respeite os limites sustentáveis do uso dos recursos naturais. O objetivo do curso é o de possibilitar uma formação abrangente nas ciências geográficas, a fim de que os futuros profissionais possam desempenhar de maneira eficiente suas funções, quer como licenciado, na regência de aulas no ensino fundamental e médio, quer como bacharel, no desempenho de suas atribuições técnicas e de pesquisa em empresas e instituições públicas e privadas. A Geografia é um dos caminhos para que possamos compreender o mundo em que vivemos. Os temas enfocados por essa ciência são bastante diversos, capazes de oferecer instrumentos essenciais para a compreensão da realidade social e para a intervenção no ordenamento do meio, na perspectiva do equilíbrio homem/natureza.

PROFESSORES:

Prof. Dra. Andréia Medinilha Pancher — Cartografia, Cartografia Temática, Geoprocessamento

Prof. Dr. Adler Guilherme Viadana — Biogeografia de Sistemas Aquáticos; Evolução da Paisagem Geográfica

Prof. Dra. Ana Tereza Caceres Cortez — Biogeografia, Ecologia, Recursos Naturais

Prof. Dr. Anderson L. H. Christofletti — Análise do Desenvolvimento Sustentável em Bacias Hidrográficas; Climatologia Urbana; Geometria Fractal Aplicada em Climatologia; Impactos Ambientais Causados pelas Anomalias Climáticas; Variabilidade Climática

Prof. Dr. Antonio Carlos Tavares — Climatologia

Prof. Dr. Auro Aparecido Mendes — Geografia econômica, Geografia industrial

Prof. Dra. Bernadete Castro Oliveira — Antropologia Social Patrimônio Cultural e Meio Ambiente, Ensino de Antropologia

Prof. Dra. Cenira Maria Lupinacci da Cunha — Geomorfologia Cartografia, Geomorfológica Análise Ambiental

Prof. Dra. Darlene Aparecida de Oliveira Ferreira — Geografia Rural, Uso do Solo Urbano, Agricultura Familiar, Relação Cidade-Campo

Prof. Dr. Elson Luciano Silva Pires — Economia Política do Trabalho Economia Urbana e Regional

Prof. Dr. Enéas Rente Ferreira — Geografia dos transportes

Prof. Dr. Fabiano Tomazini da Conceição — Geomorfologia Geoquímica Manejo de Bacias Hidrográficas

Prof. Dr. Fadel David Antonio Filho — Geografia regional, ensino de geografia

Prof. Dra. Iara Nocentini André — Climatologia

Prof. Dr. João Afonso Zavattini — Climatologia Geográfica

Prof. Dr. José Gilberto de Souza — Geografia Agrária; Mercados e Tributação da Terra Rural; Políticas Públicas; Teoria e Método de Pesquisa em Geografia

Prof. Dra. Magda Adelaide Lombardo — Cartografia Análise da Informação Geográfica

Prof. Dr. Manuel B. Rolando Berríos Godoy — Meio Ambiente Recursos Naturais, Resíduos Sólidos Urbanos, Industriais e Especiais Cargas Perigosas

Prof. Dra. Maria Isabel Castreghini de Freitas — Cartografia Sensoriamento remoto aplicado à análise ambiental Sistema de Informação Geográfica (SIG)

Prof. Dra. Maria Juraci Zani Dos Santos — Geografia Física, Climatologia, Agroclimatologia, Bioclimatologia

Prof. Dra. Nádia Regina do Nascimento — Pedologia, Pedogênese Geomorfologia: relações morfogênese e pedogênese, Análise Ambiental: poluição dos solos, degradação desolos

Prof. Dr. Paulo Roberto Teixeira Godoy — Geografia Regional do Estado de São Paulo: Economia e Recursos Naturais

Prof. Dr. Roberto Braga — Planejamento urbano e regional, Planejamento ambiental, Políticas públicas e desenvolvimento local, Geografia urbana e regional

Prof. Dr. Samuel Frederico

Prof. Dra. Sandra Elisa Contri Pitton — Climatologia Aplicada e Qualidade Ambiental e de Vida

Prof. Dr. Sérgio dos Anjos — Cartografia Geoprocessamento

Prof. Dra. Silvana Maria Pintaudi — Geografia do Comércio, Serviços e do Consumo, Geografia Urbana

Prof. Dra. Silvia Ap. Guarnieri Ortigoza — Geografia Humana do Brasil; Geografia Regional e Geografia Urbana

Prof. Dra. Solange T. De Lima Guimarães — Paisagem, percepção da paisagem, estudos ambientais, educação ambiental

UNIVERSIDADE FEDERAL DA GRANDE DOURADOS

FACULDADE DE CIÊNCIAS HUMANAS

FUNDADO: 2006

PROGRAMAS: Bacharelado, Licenciatura

CONTATO PROGRAMA DE BACHARELADO: Sedeval

Nardoque, geografia@ufgd.edu.br

BACHARELADOS OUTORGADOS ANUALMENTE: 10

CONTATO PROGRAMA DE POS GRADUACAO: Jones

Dari, mestradogeografia@ufgd.edu.br

POS GRADUACAO OUTORGADO ANUALMENTE: 10

CENTROS DE PESQUISA: LAPET / LAPLAN / LABGEO / LEUA / LGF / LEG

SITE DA INTERNET: <http://www.ufgd.edu.br/fch/geografia>

CONTATO PARA MAIS INFORMAÇÕES: Prof. Dr. Sedeval Nardoque, Coordenador do Curso de Geografia, Dourados, MS, Brasil, Telefone: 55 67 3410-2268, geografia@ufgd.edu.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: Curso: Geografia Modalidades do Curso: Bacharelado e Licenciatura Título acadêmico conferido: Bacharel e/ou Licenciado em Geografia Modalidade de ensino: Presencial Regime de matrícula: Seriado semestral a partir de 2009 Período de integralização: Mínimo 8 (oito) semestres para Licenciatura ou Bacharelado e 10 (dez) Semestres para Licenciatura e Bacharelado. Máximo 15 (quinze) semestres Carga Horária: - Bacharelado 3.312 horas - Licenciatura 3.630 horas Número de vagas: 70 (setenta) por turma Turno de funcionamento: Noturno e Sábados (manhã e tarde) Secretaria da Coordenação Coordenador: Prof. Dr. Sedeval Nardoque Secretário: Gilson Carlos Visú Horário de Atendimento ao Público: de segunda-feira a sexta-feira, das 13h15min às 17 h e 18 h às 22h. Endereço: Unidade II do Campus de Dourados, Rodovia Dourados – Itahum – Km 12 – Cidade Universitária Fone: (67) 3410-2268 Histórico do Curso: Legalmente, o Curso de Geografia do Campus de Dourados (UFMS) obteve autorização de funcionamento através da Portaria RTR/UFMS nº 102, de 9 de setembro de 1982 e reconhecimento pela Portaria MEC nº 553, de 11 de novembro de 1987, publicada no Diário Oficial da

União de 12 de novembro de 1987. Foi criado em 1983 com funcionamento no período matutino, oferecendo 32 vagas para formação em Licenciatura Plena. A partir de 1991 o período de funcionamento foi transferido para o noturno com a ampliação para 45 vagas. A demanda matutina mostrou-se insuficiente por tratar-se de um curso de licenciatura cuja clientela potencial são alunos que exercem atividades profissionais durante o dia. Em 1999, o curso teve seu número de vagas novamente ampliado para 50. Durante todo período de funcionamento, o curso tem primado, por melhorias na qualidade do ensino, extensão e pesquisa, com destaque para esta última. É possível elencar ganhos qualitativos para o curso de Geografia da UFGD no que diz respeito à qualificação do corpo docente e à inserção do curso na comunidade através de atividades de pesquisa e de extensão. Com a criação da UFGD em 2005 e sua implantação em 2006, o curso de Geografia teve seu quadro docente ampliado de dez para dezesseis professores sendo: 14 doutores, 1 mestre e 1 especialista. Tal ampliação representou não só maior número de docentes diretamente envolvidos com o curso como também a diversificação de áreas de pesquisa, com destaque para formação de um núcleo voltado às temáticas ambientais e da Geografia Física. No ano de 2007, foi implantado Programa de Pós-Graduação em Geografia –nível Mestrado. É de reconhecido saber que o funcionamento do Mestrado em muito 4 alavanca a qualidade da formação da graduação e isso deve ser computado como um dos pontos fortes do Curso de Geografia da UFGD.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO,

AJUDA FINANCEIRA: OBJETIVOS: Licenciatura Geral: Formar profissionais para o exercício do magistério no ensino fundamental, médio e superior. Específicos: Formar profissionais com domínio dos conhecimentos da ciência geográfica que assegurem uma base sólida para a construção de uma prática pedagógica autônoma e sintonizada com as atuais necessidades do ensino desta disciplina; Habilitar o profissional a realizar a transposição didática dos conhecimentos geográficos de acordo com o estágio de desenvolvimento cognitivo dos alunos; Habilitar o profissional para o planejamento e execução das atividades didáticas, visando o desenvolvimento do processo de alfabetização geográfica dos alunos no ensino fundamental e médio. Bacharelado Objetivo Geral: Formar profissionais com domínio das habilidades e competências necessárias ao exercício da profissão de Geógrafo, segundo as especificações da Lei no 6664/79 e alterações decorrentes. Objetivos Específicos: Formar profissionais habilitados a:- realizar reconhecimentos, levantamentos, estudos e pesquisas de caráter físico-geográfico, biogeográfico, antropogeográfico e geoeconômico e as realizadas nos campos gerais e especiais da Geografia que se fizerem necessárias;- delimitar e caracterizar regiões e sub-regiões geográfico-naturais e zonas geoeconômicas para fins de planejamento e organização do espaço;- equacionar em escala nacional, regional ou local problemas relacionados ao potencial geocológico do País, objetivando a elaboração de medidas que visem o desenvolvimento e a diminuição dos impactos socioambientais negativos;- analisar e elaborar medidas de gestão do território, respeitando a capacidade de resiliência do ambiente e as características sociais existentes;- elaborar zoneamento socioambiental, de áreas urbanas e rurais, com vistas ao planejamento, incluindo, as escalas nacional, regional e local;- realizar estudos de diagnóstico e análise dos aspectos ecológicos e etológicos da paisagem geográfica e problemas conexos;- trabalhar na elaboração de políticas de povoamento, migração interna, migração e colonização de regiões novas ou de revalorização de regiões de velho povoamento;- trabalhar no estudo físico-cultural dos setores geoeconômicos destinados ao planejamento da produção;- atuar na estruturação ou reestruturação dos sistemas de circulação e de divisão administrativa da União, dos Estados, dos Territórios e dos Municípios quando necessário;- participar de levantamentos e mapeamentos destinados à solução de problemas socioambientais nas escalas nacional, regional e local.

CORPO DOCENTE:

Adauto de Oliveira Souza, Doutor em Geografia

Adelsom Soares Filho, Mestre em Geografia
 André Geraldo Berezuk, Doutor em Geografia
 Cleonice Gardin, Doutora
 Charlei Aparecido da Silva, Doutor em Geografia
 Edvaldo César Moretti, Pós-Doutor em Geografia
 Flaviana Gasparotti Nunes, Doutora em Geografia
 Jones Dari Goetttert, Doutor em Geografia
 Lisandra Pereira Lamoso, Doutora em Geografia
 Márcia Yukari Mizusaki, Doutora em Geografia
 Maria José Martinelli Silva Calixto, Doutora em Geografia
 Mário Cezar Tompes da Silva, Doutor em Geografia
 Mário Geraldini, Especialista em Geografia
 Pedro Alcântara de Lima, Doutor em Geografia
 Sedeval Nardoque, Doutor em Geografia
 Silvana de Abreu, Doutora em Geografia

UNIVERSIDADE FEDERAL DE MATO GROSSO DO SUL

CURSO DE GEOGRAFIA

FUNDADO: 1962

PROGRAMAS: Bacharelado

URL PROGRAMA ON-LINE:

<http://geoufmscg.blogspot.com>

CONTATO PROGRAMA DE BACHARELADO: Ana

Paula Correia de Araújo, geo.ccet@ufms.br

CONTATO PROGRAMA DE POS GRADUACAO:

Programa de pós-graduação ainda em elaboração

CENTROS DE PESQUISA: Centro de Ciências Exatas e
Tecnologias

SITE DA INTERNET: <http://geoufmscg.blogspot.com>

CONTATO PARA MAIS INFORMAÇÕES: Ana Paula Correia de
Araújo, Coordenador, Campo Grande, Mato Grosso do Sul, Brasil,
Telefone: (67) 3345-7450, geo.ccet@ufms.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O curso de Geografia UFMS/CCET é um curso novo que privilegia a formação científica, técnica e aplicada necessária à atuação do geógrafo, em atendimento à Lei 6.664, de 26/06/1979, que cria a profissão e define suas atribuições profissionais. As instalações estão ainda em fase de construção. Em breve, o curso oferecerá aos seus estudantes e profissionais laboratórios e gabinetes de estudos e pesquisa, além de desfrutar das bases de pesquisa da UFMS, situadas no Pantanal Sul-Mato-Grossense. A proposta é de um curso aberto e atuante, com base em parcerias com órgãos públicos e ONG's, e voltado para a inserção de seus estudantes no mercado de trabalho.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO,

AJUDA FINANCEIRA: A Geografia consolida teoricamente sua posição como prática social, pedagógica e científica que busca conhecer, explicar e ensinar a organização do espaço, tanto em relação aos aspectos físicos como humanos. A dinâmica e a complexidade das análises geográficas, bem como suas relações com outras áreas do conhecimento, podem ser percebidas na estrutura curricular proposta para o curso, na modalidade Bacharelado. As particularidades e as generalidades são analisadas nas diferentes escalas geográficas e históricas. O curso de Bacharelado visa formar geógrafos com capacidade de responder as necessidades atuais do país revendo as formas tradicionais de utilização de recursos, analisando as transformações recentes no país e no mundo, participando da reorganização dos espaços mal aproveitados e na organização dos espaços a serem conquistados. Profissional capacitado, por uma linguagem científica moderna, a um trabalho interdisciplinar, (fundamental para o encontro de soluções que atenuem os desequilíbrios setoriais e regionais), bem como em firmas particulares

de planejamento, indica a crescente demanda de “profissionais do espaço terrestre” que a Universidade deve preparar. Os conteúdos básicos e complementares da Geografia organizam-se em torno de: Núcleo específico – conteúdos referentes ao conhecimento geográfico; Núcleo complementar – conteúdos considerados necessários à aquisição de conhecimento geográfico e que podem ser oriundos de outras áreas de conhecimento, mas não excluem os de natureza específica da Geografia; Núcleo de opções livres – disciplinas optativas, cujos conteúdos serão escolhidos pelo próprio aluno, com orientação de um professor. O Aluno deverá cumprir seis disciplinas optativas de 68h/a, ao longo do curso, oferecidas na modalidade presencial e/ou distância, totalizando 408 h/a de carga horária. O Curso de Graduação de Bacharelado em Geografia será ministrado em quatro anos (8 semestres). A estrutura curricular envolve disciplinas obrigatórias e optativas visando estreitar as relações no plano didático-pedagógico e qualificar o currículo do profissional formado na Instituição. Em paralelo, o currículo contém o Trabalho de Conclusão de Curso – TCC, obrigatório, desenvolvido durante o último ano do Curso, sob supervisão de um professor orientador previamente estabelecido. O Trabalho de Conclusão de Curso envolve: desenvolvimento de projeto de pesquisa ou; produto (vídeo, cartilha, jogos, software, etc.) ou; projeto de intervenção. Os eixos de conteúdos básicos e específicos e livres se articulam através de atividades complementares, Estágios, trabalhos de campo e aulas práticas. O Estágio Obrigatório será presencial, em empresas públicas e privadas do estado de Mato Grosso do Sul, e supervisionado. Atividades de campo serão previamente agendadas com os alunos e professores para sua realização a partir das necessidades de cada disciplina e do curso.

PROFESSORES:

Ana Paula Correia de Araújo — Geógrafa, doutora em Geografia -
Geografia Rural - Universidade Federal do Rio de Janeiro

Icléia Albuquerque de Vargas — Geógrafa, doutora em Meio
Ambiente e Desenvolvimento - Universidade Federal do Paraná

Antônio Conceição Paranhos Filho — Geólogo, doutor em Geologia
Ambiental - Universidade Federal do Paraná

Emília Mariko Kashimoto — Geógrafa e Arqueóloga, livre-docente
em Arqueologia - Universidade de São Paulo

Sérgio Ricardo Oliveira Martins — Geógrafo, doutor em Geografia
Humana - População e Desenvolvimento - Universidade de São
Paulo

Júlio César Gonçalves — Geógrafo, doutor em Geografia Física -
Climatologia - Universidade de São Paulo

Mara Aline Santos Ribeiro — Geógrafa, doutoranda em Geografia -
Universidade de Campinas

Sérgio Wilton Gomes Isquierdo — Geógrafo, doutor em Geografia
Física - Universidade de São Paulo

UNIVERSIDADE FEDERAL DE MINAS GERAIS

DEPARTAMENTO DE GEOGRAFIA

FUNDADO: 1929

PROGRAMAS: Bacharelado, Mestrado, Doutorado,
Licenciatura, Bacharelado (à Distância/Virtuais)

URL PROGRAMA ON-LINE:

<http://www.igc.ufmg.br/departamentos/geografia.htm>

<http://www.igc.ufmg.br/cursos/geografia.htm>

<http://www.ufmg.br/pos/geografia/>

CONTATO PROGRAMA DE BACHARELADO: Ana

Maria Simões, geoggrad@igc.ufmg.br

BACHARELADOS OUTORGADO ANUALMENTE: 20

POS GRADUACAO OUTORGADO ANUALMENTE: 20

CONTATO PROGRAMA DE POS GRADUACAO:

Antônio Pereira Magalhães Junior, posgeog@igc.ufmg.br

CENTROS DE PESQUISA: Centro de Pesquisa Manoel

Teixeira da Costa

SITE DA INTERNET: www.igc.ufmg.br

CONTATO PARA MAIS INFORMAÇÕES: Antônio Pereira Magalhães Junior, Coordenador do Programa de Pós-Graduação em Geografia, Belo Horizonte, Brasil,
Telefone: (31) 3409 5404; 3409 5421, Fax: (31) 3409 5410, 269 geografia@igc.ufmg.br; posgeog@igc.ufmg.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA:

A 269eografia269 do Departamento de Geografia na UFMG antecede a própria criação do Instituto de Geociências, pois o Departamento fazia parte da antiga Faculdade de Filosofia desta Universidade, atendendo então, prioritariamente, ao curso de graduação em Geografia e História, posteriormente desmembrados. Atualmente o Departamento atende a quatro cursos de graduação no Instituto de Geociências (Geografia Diurno, Geografia Noturno, Turismo e Geologia), além de outros na Escola de Arquitetura e Faculdade de Filosofia e Ciências Humanas da UFMG. Atende ainda aos cursos de pós-graduação strito sensu (mestrado e doutorado) em Geografia, além de apoiar cursos de especialização ligados ao Programa de Pós-Graduação em Geografia e outros. Seu corpo docente é formado por vinte e três doutores, dez 269eograf e um especialista. O Departamento de Geografia da UFMG compreende dois cursos de graduação: Geografia e Turismo, sendo que o curso de Geografia é oferecido nos turnos diurno (40 vagas anuais) e noturno (80 vagas anuais). O curso de Turismo é ofertado somente no período diurno (40 vagas anuais). O Programa de Pós-Graduação em Geografia 269eogra os cursos de Mestrado e Doutorado em Geografia, em duas áreas de concentração: Análise Ambiental e Organização do Espaço. Atualmente são 22 professores credenciados no Programa e 160 alunos. O curso de Mestrado foi iniciado em 1988 e o de Doutorado foi iniciado em 2003. Atualmente possui conceito 5 no sistema da CAPES. O Departamento de Geografia possui atualmente 34 professores, sendo que 27 já são doutores e os demais estão cursando o doutorado. O curso de Geografia e o Programa de Pós-Graduação em Geografia da UFMG são considerados de excelente qualidade em nível nacional, estando sempre posicionados nas primeiras posições nos rankings elaborados pelos órgãos do governo federal e agências de fomento. Tradicionalmente, o Departamento de 269eografia da UFMG se destaca nas áreas de Geomorfologia, pedologia, Geografia e meio ambiente, recursos hídricos, 269eografia269gí, 269eografia urbana e 269eografia social. O Departamento de Geografia funciona no Instituto de Geociências da UFMG. Conta com 269eogra 269eografia269gí (Laboratório de Geomorfologia; Laboratório de Geoprocessamento, etc.), biblioteca e 269eografia. O curso de Geografia tem a duração de 04 anos (08 períodos letivos) no período diurno e 05 anos (10 períodos letivos) no período noturno. Os alunos

cursam disciplinas obrigatórias e disciplinas optativas, a maioria com carga horária de 60 horas-aula. Muitas das disciplinas possuem atividades práticas e trabalhos de campo que permitem aos alunos a complementação dos conteúdos teóricos. O curso de Geografia conta, para os trabalhos de campo, com as instalações do Instituto Casa da Glória situado na cidade de Diamantina, o qual permite a hospedagem e alimentação dos alunos e 269eografia269. O Instituto Casa da Glória apresenta excelentes instalações e permite que os alunos conheçam diferentes dimensões geográficas de uma das mais ricas regiões do Brasil em termos físicos e humanos. O curso de mestrado tem a duração máxima de 02 anos e o de doutorado tem a duração máxima de 04 anos. Também é ofertado o curso de graduação em Geografia, modalidade bacharelado, à 269eografia. São contemplados 4 cidades de Minas Gerais, totalizando 160 alunos. O curso á 269eografia segue o mesmo padrão e estrutura do curso presencial. As ementas das disciplinas ofertadas (e seus objetivos), além de outras informações, podem ser encontradas no site www.igc.ufmg.br (Departamento de Geografia).

REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA:

Para o ingresso no curso de graduação, ocorre um 269eograf seletivo de vestibular anual no qual são abertas 40 vagas para o turno diurno e 80 vagas (2 turmas) para o período noturno. Para o Programa de Pós-graduação também há um 269eograf seletivo marcado pelas seguintes etapas: Análise dos projetos pelos prováveis orientadores indicados pelos candidatos; prova de idiomas; prova de conhecimentos específicos; análise do currículo e histórico escolar; entrevista. Em 2011 foram disponibilizadas 09 vagas para o doutorado e 23 vagas para o mestrado. O curso de graduação recebe apoio 269eografia269 da Pró-Reitoria de Graduação em termos de recursos e bolsas de iniciação científica para alunos. Também recebe apoio de agências de fomento nacionais como a CAPES, o CNPq e a FAPEMIG. Diversos alunos são contemplados com bolsas de iniciação científica e alguns 269eografia269 são bolsistas do CNPq. As disciplinas comuns às modalidades de licenciatura e bacharelado, ou à modalidade de licenciatura dos cursos diurno e noturno, permitem que o aluno matriculado no curso diurno possa cursa-las no curso noturno e vice-versa (no caso da licenciatura). Para isto, basta que o aluno siga as 269eografia269 curriculares e que haja vaga disponível. Após formado, o aluno pode optar por cursar a outra modalidade do curso (licenciatura ou bacharelado), solicitando continuação de estudos. Para isto, 269eogra cursar as disciplinas exigidas. A duração média da complementação é de um ano e meio. Ocorrem duas entradas por ano no curso de 269eografia, sendo uma no início do 1º semestre letivo para os alunos do curso diurno (40 vagas), e outra no início do 2º semestre letivo para os alunos do curso noturno (40 vagas). São oferecidas 40 vagas anuais para o curso diurno (entradas no 1º semestre) e 40 vagas anuais para o curso noturno (entradas no 2º semestre). Os alunos dos cursos de Geografia possuem diferentes opções de estágios e 269eografia269gí nacionais e internacionais oferecidos dentro dos programas e acordos da UFMG, incluindo países do Mercosul, Europa e EUA.

CORPO DOCENTE:

Adriana Monteiro da Costa (Dra) — Pedologia Situação funcional: Professor Adjunto

Allaoua Saadi (Dr.) — Geomorfologia; turismo Situação funcional: Professor Titular

Altair Sancho Pivoto dos Santos (mestre) — Turismo Situação funcional: Professor Assistente

Ana Maria Simões Coelho (mestre) — História do pensamento geográfico; Prática de ensino Situação funcional: Professora Assistente

Ana Paula Guimarães Santos (mestre) — Turismo Situação funcional: Professora

André Augusto Rodrigues Salgado (Dr.) — Geomorfologia Situação funcional: Professor Adjunto

André Velloso Batista Ferreira (Dr.) — Metodologia da pesquisa em geografia; Geografia humana Situação funcional: Professor Adjunto

Antônio Pereira Magalhães Júnior (Dr.) — Geografia e recursos hídricos; geomorfologia; geografia e meio ambiente Situação funcional: Professor Adjunto

Bernardo Machado Gontijo (Dr.) — Biogeografia; geografia e meio ambiente Situação funcional: Professor Adjunto

Carlos Henrique Jardim (Dr.) — Climatologia Situação funcional: Professor Adjunto

Cássio Eduardo Vianna Hissa (Dr.) — Metodologia da pesquisa em geografia; geografia humana Situação funcional: Professor Adjunto

Célio Augusto da Cunha Horta (mestre) — Geografia humana; geografia política Situação funcional: Professor Assistente

Claúdia Lamounier Freitas (mestre) — Turismo Situação funcional: Professor Adjunto

Claudinei Lourenço (Dr.) — História do pensamento geográfico; Prática de ensino Situação funcional: Professor Adjunto

Cristiane Valéria de Oliveira (Dra.) — Pedologia; geografia e meio ambiente Situação funcional: Professor Associado

Cristina Helena Ribeiro Rocha Augustin (Dra.) — Geomorfologia; geografia e meio ambiente Situação funcional: Professor Titular

Doralice Barros Perreira (Dra.) — Geografia humana Situação funcional: Professor Adjunto

Fabiana Andrade Bernardes Almeida (mestre) — Turismo Situação funcional: Professor Assistente

Geraldo Magela Costa (Dr.) — Geografia urbana; planejamento urbano Situação funcional: Professor

Helder Lages Jardim (Dr.) — Geoprocessamento; sensoriamento remoto; cartografia Situação funcional: Professor Adjunto

Heloísa Soares de Moura Costa (Dra.) — Planejamento regional; planejamento urbano; geografia humana Situação funcional: Professor Associado

Janise Bruno Dias (Dra.) — Biogeografia; geografia e meio ambiente Situação funcional: Professor Adjunto E-mail: janisebruno@yahoo.com.br Telefone: 3409-5438 Sala: 325

Magda Luzimar de Abreu (Dra.) — Climatologia Situação funcional: Professor Associado E-mail: magda@csr.ufmg.br Telefone: 3409-6233 Sala: 313

Márcia Maria Lousada (mestre) — Turismo Situação funcional: Professor Assistente E-mail: lousadamarcia@yahoo.com.br Telefone: 3409-5409 Sala: 326

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Maria Luíza Grossi Araújo (Dra.) — Geografia agrária; geografia humana Situação funcional: Professora Adjunto E-mail: mluizagrossi@bol.com.br Telefone: 3409-5436 Sala: 321

Mariana de Oliveira Lacerda (mestre) — Turismo Situação funcional: Professor Assistente E-mail: mirilacerda@gmail.com Telefone: 3409-6237 Sala: 2046

Marly Nogueira (Dra.) — Geografia urbana; geografia humana Situação funcional: Professor Adjunto E-mail: nogueira.marly@yahoo.com.br Telefone: 3409-5431 Sala: 308

Philippe Maillard (Dr.) — Geoprocessamento Situação funcional: Professor Adjunto E-mail: philippe@ufmg.br Telefone: 3409-5461 Sala: 319

Raflo Edmundo da Silva Matos (Dr.) — Geografia urbana; geografia humana Situação funcional: Professor Associado E-mail: raflo@ufmg.br Telefone: 3409-5426 Sala: 330

Ricardo Alexandrino Garcia (Dr.) — Métodos quantitativos em geografia; geografia urbana Situação funcional: Professor Adjunto E-mail: alexandrinogarcia@gmail.com Telefone: 3409-6331 Sala: 308

Roberto Célio Valadão (Dr.) — Geomorfologia; geografia e meio ambiente Situação funcional: Professor Associado E-mail: valadao@ufmg.br Telefone: 3409-5434 Sala: 315

Sandra Maria Lucas Pinto Silva (mestre) — Geografia humana Situação funcional: Professora Assistente E-mail: sandralucasgeo@yahoo.com.br Telefone: 3409-5422 Sala: 317

Sérgio Manuel Merêncio Martins (Dr.) — Geografia urbana; geografia humana Situação funcional: Professor Adjunto E-mail: sergiomartins@ufmg.br Telefone: 3409-5439 Sala: 307

Valéria Amorim do Carmo (Dra.) — Cartografia; Sensoriamento remoto; geografia e educação Situação funcional: Professor Adjunto E-mail: vamorimbh@yahoo.com.br Telefone: 3409-5432 Sala: 2044

Valéria de Oliveira Roque Ascenção (Dra.) — Prática de ensino em geografia; geografia e educação Situação funcional: Professor Adjunto E-mail: valeriaroque@gmail.com Telefone: 3409-5493 Sala: 329

Wilma Lúcia Macagnan Carvalho (Dra.) — Geomorfologia; geografia e meio ambiente Situação funcional: Professor Associado E-mail: vlmc@ufmg.br Telefone: 3409-5435 Sala: 311

Weber Soares (Dr.) — Geografia humana; geografia urbana; redes Situação funcional: Professor Adjunto E-mail: weber.igc@gmail.com Telefone: 3409-5436 Sala: 321

Wellington Lopes Assis (Dr.) — Climatologia Situação funcional: Professor Adjunto E-mail: assisw@gmail.com Telefone: 3409-5430 Sala: 305

William Rosa Alves (mestre) — Geografia humana Situação funcional: Professor Assistente E-mail: wralves.bhz@uol.com.br Telefone: 3409-5437 Sala: 323

UNIVERSIDADE FEDERAL DE PERNAMBUCO (UFPE)

DEPARTAMENTO DE CIÊNCIAS GEOGRÁFICAS

DATE FOUNDED: 1950

GRADUATE PROGRAM FOUNDED: 1976 (Master); 2004 (Doctor)

DEGREES OFFERED: Bacharelado, Licenciatura, Mestrado e Doutorado em Geografia

GRANTED 5/1/09-7/31/10: Bacharelados e Licenciados, 123; Mestres, 17; Doutores, 8

STUDENTS: Mestrado, 65; Doutorado, 38

CHAIR: Dr. Ranyere Nóbrega

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Departamento de Ciências Geográficas, Cidade Universitária, Edifício dos Institutos Básicos, CFCH, 60 andar, Cep 50640001 - Recife, Estado de Pernambuco, Brasil. Phone Number: 55-81-21268275; Fax Number: 55-81-21268275; e-mail address: Depcienciasgeograficas@yahoo.com.br.

PROGRAMS AND RESEARCH FACILITIES: The Department offers Geography Programs at Undergraduate (Bacharelado e Licenciatura) and Graduate (Master and Doctor) levels and these Programs provide training in Area and Systematic Studies. The Department through its Programs aims to strengthening a comprehensive view of Geography seeing this discipline as broadly interested in the study of the relationship between Society/Culture and Environment. Graduate courses are designed to facilitate student's research on their topics of interest and allow them to adopt applied or basic research attitudes. The Geography Graduate and Undergraduate Programs at the Universidade Federal de Pernambuco (UFPE) are surrounded by many others consolidated and productive Graduate and Undergraduate Programs in the Human Sciences (History and Archaeology, Anthropology, Political Science, Sociology, Urban Development, Economics, Social Work, Psicologia, Education, Philosophy), in the Environmental Sciences and Engineering (Cartography, Geology, Environmental Sciences, Oceanography, Computer Sciences etc), in the Health Sciences (Public Health, Tropical Diseases, Medicine, Odontology, Nutrition, Occupational Therapy, etc), in the Law Sciences and in Education. Not few of these programs are on the highest positions of prestige in the country and

are highly interactive at international level. It results that students from Brazil or abroad, being they at Graduate or Undergraduate Programs, are expected to benefit from these strong advantages which exist beyond the strict confines of the Department. The UFPE has a high record of professional sustained cooperation with other Universities in Brazil and abroad. Main focal topics of graduate research are: a) Settlement & Change in Developing Regions; b) Urban Planning; c) Economic & Regional Planning; d) Tourism, Development and Spatial & Environmental Changes; e) Geomorphology, Water Resources and Ecology.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System. Program duration: Undergraduate, 4 to 6 years; Master, 2 years including Thesis; Doctor, 4 years including Dissertation. *Admission graduate requirements:* interests in the field coincident with those of the Department, and clear evidence of competence to pursue graduate work at the Mestrado (Master) or Doutorado (Doctor) level; application requires curriculum vitae and research project (details: www.ufpe.br or cmgeo@ufpe.br), and other additional requirements (writing test, Portuguese language proficiency, letters of recommendation, for example) according to the Graduate Program Coordination. *Financial Aid:* possibilities of support through Brazilian federal programs which are available for nationals and foreigners (www.capes.gov.br).

FACULTY:

Nilson Crocia de Barros, Dr (1987) and Livre Docente (2004), U. de São Paulo — regional development, history of geography
Jan Bitoun, Dr, U. de Paris, 1982 — urban geography & policy
Tânia Bacelar de Araújo, Dr, U. de Paris, 1982 — economic & policy
Marlene Silva, Dr, U. de São Paulo, 1994 — agricultural geography
Ana Cristina Fernandes, Dr, U. of Sussex, 1996 — economic & regional policy
Edvânia T. Gomes, Dr, U. de São Paulo, 1997 — urban geography
Alcindo José de Sá, Dr, U. de São Paulo, 1998 — economics & agriculture
Eugênia Pereira, Dr, U. Federal Rural de Pernambuco, 1998 — botany
Maria Fernanda Torres, Dr, Universidade de São Paulo, 1999 — oceanography
Maria Bezerra de Araújo, Dr, U. Federal de Viçosa, 2000 — environment & soils
Antônio Carlos Correa, Dr, U. Estadual Paulista/R. Claro, 2001 — Geomorphology and Quaternary
Claudio Castilho, Dr, U. de Paris, 2001 — urban geography & tourism
Aldemir D. Barbosa, Dr, U. Federal do Rio de Janeiro, 2003 — environment & tourism
Vanice Selva, Dr, U. Federal do R. de Janeiro, 2003 — environment & tourism
Caio Amorim Maciel, Dr, U. Federal do R. de Janeiro, 2004 — cultural & rural geography
Silvana Neves, Dr, U. Federal da Bahia, 2004 — environment & geomorphology
Hernani Loebler Campos, Dr, U. Federal do R. de Janeiro, 2004 — water resources & management
Josicleda Domiciano Galvino, Dr, U. Federal da Paraíba, 2005 — environment & geotechnology
Claudio Ubiratan Gonçalves, Dr, U. Federal Fluminense, 2005 — rural & regional planning
Fernando Mota Filho, Dr, U. Federal de Pernambuco, 2006 — environment & planning
Rui B. Pordéus, Dr, U. Federal do Rio de Janeiro, 2007 — environment & geotechnology
Ranyere Silva Nóbrega, Dr, U. Federal de Campina Grande, 2008 — meteorology

* Taís Correa, MSc, U. F. de Pernambuco, 1984

* L. J. de Oliveira, MSc, U. F. de Pernambuco, 1982

* Activities only at the undergraduate program.

UNIVERSIDADE FEDERAL DE SANTA CATARINA

DEPARTAMENTO DE GEOCIÊNCIAS

FUNDADO: 18 de dezembro de 1960

PROGRAMAS: Bacharelado, Mestrado, Doutorado, Licenciatura

URL PROGRAMA ON-LINE:

<http://www.cfhh.ufsc.br/geografia/>

CONTATO PROGRAMA DE BACHARELADO: Valmir

Volpato, volpato@cfh.ufsc.br

BACHARELADOS OUTORGADO ANUALMENTE: 20
CONTATO PROGRAMA DE POS GRADUACAO:

Juliana Blau, secpgegeo@cfh.ufsc.br

POS GRADUACAO OUTORGADO ANUALMENTE: 20
CENTROS DE PESQUISA: Centro de Filosofia e Ciências Humanas

SITE DA INTERNET: <http://www.cfhh.ufsc.br/geografia/>

CONTATO PARA MAIS INFORMAÇÕES: Valmir Volpato, Expediente da Coordenadoria, Florianópolis, Santa Catarina, Brasil, Telefone: +55 (48) 3721-9256, Fax: +55 (48) 3721-9983, volpato@cfh.ufsc.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O Curso de Graduação em Geografia é parte integrante do Departamento de Geociências, nas suas atividades de Ensino/Pesquisa/Extensão, vinculado ao Centro de Filosofia e Ciências Humanas. É atendido por quatro áreas específicas do Departamento de Geociências (Fonte: <http://www.cfhh.ufsc.br/geografia/>): 1.Geologia; 2.Cartografia; 3.Geografia física; 4.Geografia humana. O Curso de Geografia da UFSC está definido com base no Currículo Mínimo do CFE e na Lei que regulamenta a Profissão de Geógrafo, pelo sistema CONFEA/CREAs. O Curso de Graduação em Geografia da UFSC tem por objetivo formar Geógrafos nas habilitações de Licenciatura e Bacharelado, como profissionais devidamente habilitados a desenvolver trabalhos de ensino, de pesquisa e de aplicação técnica, nos campos gerais e específicos da ciência geográfica, bem como no equacionamento e proposição de soluções para problemas relativos aos usos dos recursos naturais e implicações sócio-espaciais, em âmbito local, regional e nacional. Assim, o profissional da Geografia deverá saber usar em seu trabalho (ensino, pesquisa e atividades de aplicação técnica), conhecimentos de investigação científica adquiridos na formação acadêmica, a partir de princípios, métodos e técnicas da Ciência Geográfica. Princípios Básicos •Compromisso com a construção do conhecimento geográfico, com a cultura brasileira e com a democracia cidadã. •Compromisso ético com a vida em suas diferentes manifestações naturais e sociais. •Respeito à pluralidade de indivíduos, ambientes, culturas e interação profissional. •Compromisso com a qualificação e competência profissional geográfica. •Atuação propositiva na busca de soluções relativas a questões geográficas. •Envolvimento permanente com os fundamentos teóricos e metodológicos da ciência geográfica. •Desenvolvimento crescente das habilidades gerais e específicas da geografia. Objetivos do Curso Formar profissionais devidamente habilitados a desenvolver atividades de ensino, de pesquisa e de aplicação técnica, a partir de princípios, métodos e técnicas da Ciência Geográfica. Na habilitação LICENCIATURA, formar profissionais para o magistério do ensino fundamental e médio. Na habilitação BACHARELADO, formar profissionais para trabalhar em atividades de reconhecimento, levantamentos, estudos e pesquisas de caráter físico-geográfico e geoeconômico, realizações nos campos gerais e específicos da geografia. Habilidades que articulam tanto a formação de bacharel quanto a de licenciado 1.Articular os elementos conceituais e empíricos, concernentes ao conhecimento científicos dos processos espaciais e sociais. 2.Conhecer, analisar, interpretar e por

em prática as diversas manifestações do conhecimento geográfico, tanto ao nível técnico-profissional enquanto bacharel, quanto ao nível do ensino fundamental e médio enquanto licenciado. 3. Articular, interpretar e explorar integralmente, nos diferentes níveis do ensino, da pesquisa, e das atividades voltadas à extensão universitária, os eventos e/ou fenômenos geográficos dirigidos aos elementos naturais e humanos, nas diferentes escalas espaço-temporais. 4. Dominar métodos e técnicas instrumentais de laboratório e de campo, relativas à produção e aplicação do conhecimento geográfico. 5. Planejar, propor, elaborar e executar projetos de pesquisa e de extensão acadêmica no âmbito da Geografia. 6. Interpretar mapas temáticos ou outras representações gráficas e cartográficas. 7. Dominar a língua portuguesa como forma de expressão, para viabilizar a produção e a difusão do conhecimento geográfico. Habilidades mais específicas ao campo do licenciado 1. Atuar no processo ensino-aprendizagem junto às escolas, públicas e privadas, no nível de ensino fundamental e médio. 2. Organizar e dominar os conhecimentos sobre a natureza e sociedade, adequando-os ao processo de ensino-aprendizagem em Geografia nos diferentes níveis de ensino.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: Fonte: <http://www.cfh.ufsc.br/geografia>

1. O aluno fará opção no vestibular exclusivamente para o Curso de Geografia diurno ou para o noturno. A opção do aluno por Licenciatura ou Bacharelado será feita ao longo do curso. O aluno poderá graduar-se nas duas habilitações desde que cumpra os respectivos currículos. 2. Entrarão duas turmas por ano: uma para o período matutino (diurno) no primeiro semestre do ano letivo e outra para o período noturno no segundo semestre do ano letivo. 3. O curso oferecerá 80 vagas anualmente, sendo 40 vagas para o turno matutino e 40 vagas para o noturno. 4. A duração da habilitação Bacharelado será de 8 semestres, sendo o mínimo de 6 semestres e o máximo de 14 semestres para a integralização das disciplinas. A duração da habilitação Licenciatura será de 9 semestres, sendo o mínimo de 7 semestres e o máximo de 16 semestres para a integralização das disciplinas. 5. As disciplinas terão 18 semanas de aulas por semestre letivo. 6. Como disciplinas optativas, o aluno poderá escolher quaisquer disciplinas oferecidas pela UFSC, obedecidos os pré-requisitos na sua origem, não podendo ultrapassar 20% da carga horária mínima do curso. (Conforme estabelecido pelo documento “Orientações Básicas para a Reforma Curricular nos Cursos de Graduação” elaborado pela equipe DCN/DEG/PREG-UFSC [Professora Dra. Araci Hack Catapan, Professor Dr. Marcos Laffin e assessoria especial de prof. Dra. Maria Conceição Manhães]) 7. As disciplinas obrigatórias específicas do currículo do curso de Bacharelado poderão ser optativas para o curso de Licenciatura, da mesma forma que as disciplinas obrigatórias específicas do currículo do curso de Licenciatura poderão ser optativas para o Curso de Bacharelado. 8. Para subsidiar o aluno na escolha da habilitação que deseja desenvolver no decorrer do curso - Bacharelado ou Licenciatura - foi incluído na quarta e última unidade do Programa da Disciplina História do Pensamento Geográfico oferecida na 1ª fase, conteúdo programático específico denominado “A formação profissional e o mundo do trabalho: Bacharelado e Licenciatura”, destinado a detalhar as diferenças entre as duas habilitações. 9. O aluno deverá desenvolver ao longo do curso atividades acadêmico-científico-culturais correspondentes a 200 horas, detalhado no link Atividades Acadêmicas 10. O Exame Nacional de Desempenho dos Estudantes – ENADE, é componente curricular obrigatório conforme Lei no 10.861, de 14 de abril de 2004, “sendo inscrito no histórico escolar do estudante somente a sua situação regular com relação a essa obrigação, atestada pela efetiva participação ou, quando for o caso, dispensa oficial pelo Ministério da Educação, em forma estabelecida em regulamento”. 11. A carga de horas/aula semanal média em sala de aula será para Bacharelado será de 20 H/A e para Licenciatura será de 20 H/A, considerando-se a realização de optativas. 12. O currículo deverá ser implantado gradativamente (Conforme Resolução nº 017/CUn/97), com implantação da 1ª fase no primeiro semestre do ano de 2007, evitando prejuízos aos alunos vinculados ao currículo atual (implantados em 1992/1 – diurno e 1992/2- noturno). 13. As

horas/aula assinaladas com as letras PCC, (veja link Matriz Curricular), correspondem às horas-aula de Prática como Componente Curricular, voltadas à formação do futuro professor, conforme regulamentação específica. (Resolução Nº 2, de 19 de fevereiro de 2002 e Resolução Nº 1, de 18 de fevereiro de 2002) 14. As horas/aula indicadas na observação a serem realizadas fora do horário normal de aula (veja link Matriz Curricular), correspondem a atividades que poderão ocorrer em finais de semana (sábado e/ou domingo) e/ou durante a semana, de acordo com plano de ensino e destinam-se a: 1) realização de trabalho de campo; 2) levantamento de dados em órgãos públicos para trabalhos acadêmicos; 3) leituras obrigatórias das respectivas disciplinas; 4) realização de trabalhos em equipes: teóricos ou práticos; 5) realização de avaliação com consulta bibliográfica: provas, monografias, etc.; 6) assistência de aulas em estabelecimentos de ensino que estão desenvolvendo conteúdos relativos à respectiva disciplina.

PROFESSORES:

Alessandra Larissa D'Oliveira Fonseca — Oceano
Ângela da Veiga Beltrame — Biogeografia
Carla Van Der Haagen Custodio Bonetti — Oceanografia Costeira
Carlos José Espíndola — Econômica
Clécio Azevedo da Silva — Rural / Alimentação
Edison Ramos Tomazzoli — Geologia
Élson Manoel Pereira — Urbana
Érico Porto Filho — Ambiental
Ewerton Vieira Machado — Urbana
Gerusa Maria Duarte — Geologia / Recursos Hídricos
Harrysson Luiz da Silva — Brasil
Jarbas Bonetti Filho — Oceanografia
João Carlos Rocha Gré — Sedimentologia
Joel Robert Georges Marcel Pellerin — Cartografia
José Messias Bastos — Econômica
Juan Antonio Flores — Geologia
Leila Christina Duarte Dias — História da Geografia
Luiz Antônio Paulino — Cartografia
Luiz Fernando Scheibe — Geologia / Ambiental
Magaly Mendonça — Climatologia
Marcelo Accioly Teixeira de Oliveira — Geomorfologia
Marcos Aurélio da Silva — Econômica
Maria Lúcia de Paula Herrmann — Geomorfologia
Nazareno José de Campos — Urbana / Rural
Norberto Olmiro Horn Filho — Geologia
Paulo Roberto Pagliosa Alves — Oceano
Rosemy da Silva Nascimento — Cartografia e Educação Ambiental
Ruth Emília Nogueira Locho — Cartografia
Walquíria Krüger Corrêa — Rural Curriculum Vitae Lattes

UNIVERSIDADE FEDERAL DE SANTA MARIA

DEPARTAMENTO DE GEOCIÊNCIAS

FUNDADO: 13 de setembro de 1961.

PROGRAMAS: Bacharelado, Licenciatura Plena, Licenciatura Plena (à Distância/Virtuais), Mestrado, Doutorado, Pós-doutorado.

URL PROGRAMA ON-LINE: www.ufsm.br/geografia e www.ufsm.br/ppggeo

CONTATO PROGRAMA DE BACHARELADO: Sandra Ana Bolfe (sabolfe@hotmail.com)

CONTATO PROGRAMA DE LICENCIATURA PLENA: Sandra Ana Bolfe (sabolfe@hotmail.com)

CONTATO PROGRAMA DE LICENCIATURA PLENA (À DISTÂNCIA/VIRTUAL): Meri Lourdes Bezzi (meribezzi@yahoo.com.br)

CONTATO PROGRAMA DE PÓS-GRADUAÇÃO: Romário trentin (romario.trentin@gmail.com)

CENTROS DE PESQUISA: Centro de Ciências Naturais e Exatas / Universidade Federal de Santa Maria

SITE DA INTERNET: www.ufsm.br/ccne

CONTATO PARA MAIS INFORMAÇÕES: Adriano Severo Figueiró – Chefe de Departamento (adri.geo.ufsm@gmail.com)

PROGRAMAS E INSTITUIÇÕES DE PESQUISA:

APRESENTAÇÃO O curso de Geografia na Universidade Federal de Santa Maria é ministrado há 44 anos. Desde a sua criação, consolidou-se como grande formador de profissionais no mercado local, regional e nacional. Atualmente, o curso conta com 270 alunos. Nos últimos anos, as disciplinas oferecidas pelo Departamento de Geociências têm tido grande procura por parte de alunos de outros cursos.

HABILITAÇÕES:

O Departamento de Geociências oferece habilitações na área de Licenciatura Plena a Bacharelado. Para a conclusão do curso, o aluno deve permanecer na faculdade no mínimo 6 semestres, e no máximo 12. Ao exceder esse limite o aluno entra em processo de jubileamento. O aluno deve optar por fazer uma opção de habilitação já na inscrição do processo seletivo. **OBJETIVOS DO CURSO** O curso visa a formação de professores de ensino básico e médio, geógrafos e pesquisadores em Geografia. O aluno formado em Licenciatura Plena pode exercer sua profissão dando aulas de Geografia no ensino básico, tanto em escolas públicas quanto em particulares. Com o Bacharelado concluído, o aluno torna-se apto a entrar no mercado de trabalho, também como pesquisador, podendo trabalhar em diversos órgãos, ou apenas prestando consultoria. **O ESTUDANTE DE GEOGRAFIA** O estudante de Geografia necessariamente deve ter aptidão para pesquisa, seja ela de campo ou teórica e ter grande perceptividade. Saber compreender e analisar o que acontece no espaço local, regional e mundial é de suma importância. **LABORATÓRIOS** O Departamento de Geociências possui diversos laboratórios que oferecem atividades de ensino, pesquisa e extensão, possibilitando a produção de conhecimento e a prática de professores e discentes. Os laboratórios que integram a lista são: **GPET – Grupo de Pesquisa em Educação e Território;** **NERA – Núcleo de Estudos e Pesquisas Regionais e Agrários;** **NEA – Núcleo de Estudos Ambientais – CLIMAGEO/SAGEO;** **LEPER – Laboratório de Estudo e Pesquisa Regional;** **LAGED – Laboratório de Geoecologia e Educação Ambiental;** **LaGeoUr – Laboratório de Geografia Urbana;** **LAGEOLAM – Laboratório de Geologia Ambiental;** **LABGEOTEC – Laboratório de Geotecnologias;** **HIDROGEO – Laboratório de Hidrogeografia;** **LABHIDROGEO – Laboratório de Hidrogeologia;** **Laboratório de Geomorfologia e Percepção da Paisagem;** **Laboratório de Geografia e EAD;** **Laboratório de Geoprocessamento;** **Laboratório**

de Paleobiologia/Estratigrafia; **Núcleo de Ensino em Geografia;** **Laboratório de Sedimentologia;** **Grupo de Pesquisa em Educação e Território;** **Núcleo de Estudos Regionais e Agrários;** **Laboratório de Estudos e Pesquisas Regionais;** **Laboratório de Geografia Urbana;** **Laboratório de Estudo Ambiental;** **Laboratório de Geologia Ambiental;** **Laboratório de Cartografia.**

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA:

O aluno ingressante no curso de Geografia Licenciatura Plena cumpre um total de 51 disciplinas obrigatórias e 10 optativas. O aluno ingressante no curso de Geografia Bacharelado cumpre um total de 53 disciplinas obrigatórias e 10 optativas. Ao final do curso obtêm, respectivamente, o título de licenciado em Geografia e bacharel em Geografia. O curso é gratuito, pois é oferecido por instituição pública de ensino federal.

PROFESSORES:

Adriano Severo Figueiró, (adri.geo.ufsm@gmail.com) — Geoecologia, Biogeografia, Geoconservação, Educação ambiental.

André Weissheimer de Borba, (awborba.geo@gmail.com) — Geoconservação.

Andrea Valli Nummer (a.nummer@gmail.com) — Geomorfologia, Castástrofes / áreas de risco, Geografia física (geral).

Átila Augusto Stock da Rosa (atiladarosa@gmail.com) — Paleontologia.

Bernardo Sayão Penna e Souza (bernardosp@yahoo.com.br) — Geomorfologia, Geografia física (geral), Sensoriamento remoto.

Benhur Pinós da Costa (benpinos@gmail.com) — Geografia econômica, Estudos de gêneros, Geografia social.

Carlos Alberto da F. Pires (calpires@terra.com.br) — Geostatística.

Carmen Rejane F. Wizniewsky (carmenrejanefw@gmail.com) — Educação geográfica, Geografia rural, Geografia social.

Cássio Arthur Wollmann (cassio_geo@yahoo.com.br) — Climatologia, Conservação, Geografia aplicada, Geografia física (geral).

Cesar de David (cdedavid2009@gmail.com) — Educação geográfica, Geografia rural, Geografia social, Geografia política.

Edgardo Ramos Medeiros (edgardomedeiros@gmail.com) — Solos, Estudos ambientais, Castástrofes / áreas de risco, Geografia física (geral).

Eduardo Schiavone Cardoso (educard@smail.ufsm.br) — Geografia econômica, Geografia social, Desenvolvimento regional.

Eliane Maria Foletto (efoletto@gmail.com) — Conservação, uso da terra, gestão de recursos hídricos, Geografia física (geral).

Gilda Maria Cabral Benaduce (g.benaduce@gmail.com) — Educação geográfica, Geografia urbana, Geografia da População.

José Luiz Silvério da Silva (silveriufsm@gmail.com) — Recursos hídricos, Estudos ambientais, Geografia física (geral).

Lauro Cesar Figueiredo (laurocfigueiredo@hotmail.com) — Pensamento geográfico, Ecologia cultural, Geografia cultural.

Lilian Hahn Mariano da Rocha (lhrocha@yahoo.com) — Geografia urbana, Planejamento (regional, urbano), Geografia social.

Luis Eduardo de Souza Robaina (lesrobaina@yahoo.com.br) — Geomorfologia, Castástrofes / áreas de risco, Geografia física (geral).

Mauro Kumpfer Werlang (wermakwer@gmail.com) — Métodos quantitativos, Geomorfologia, Geografia física (geral).

Meri Lourdes Bezzi (meribezzi@yahoo.com.br) — Pensamento geográfico, Geografia cultural, Geografia rural.

Rivaldo Mauro de Faria (rivaldo.faria@ufsm.br) — Geografia médica, Geografia urbana, Planejamento (regional, urbano).

Roberto Cassol (rtocassol@gmail.com) — SIG, SIG (Programa de certificação), Geografia física (geral).

Romário Trentin (romario.trentin@gmail.com) — Geomorfologia, Castástrofes / áreas de risco, Geografia física (geral), SIG.
Sandra Ana Bolfe (sabolfe@hotmail.com) — Educação geográfica, Geografia urbana, Geografia da População.
Waterloo Pereira Filho (waterloopf@gmail.com) — SIG, Sensoriamento remoto, Geografia física (geral)

CHEFE DO DEPARTAMENTO:

Adriano Severo Figueiró (adri.geo.ufsm@gmail.com)

SUBCHEFE DO DEPARTAMENTO:

Rivaldo Mauro de faria (rivaldo.faria@ufsm.br)

COORDENADOR DE GRADUAÇÃO:

Sandra Ana Bolfe (sabolfe@hotmail.com)

COORDENADOR PROGRAMA DE PÓS-GRADUACAO:

Romário trentin (romario.trentin@gmail.com)

DOCENTE PERMANENTE:

Adriano Severo Figueiró, André Weissheimer de Borba, Andrea Valli Nummer, Átila Augusto Stock da Rosa, Bernardo Sayão Penna e Souza, Benhur Pinós da Costa, Carlos Alberto da F. Pires, Carmen Rejane F. Wizniewsky, Cássio Arthur Wollmann, Cesar de David, Edgardo Ramos Medeiros, Eduardo Schiavone Cardoso, Eliane Maria Foletto, Gilda Maria Cabral Benaduce, José Luiz Silvério da Silva, Lauro Cesar Figueiredo, Lilian Hahn Mariano da Rocha, Luis Eduardo de Souza Robaina, Mauro Kumpfer Werlang, Meri Lourdes Bezzi, Rivaldo Mauro de Faria, Roberto Cassol, Romário Trentin, Sandra Ana Bolfe, Waterloo Pereira Filho.

UNIVERSIDADE FEDERAL DE UBERLÂNDIA

**FACULDADE DE CIÊNCIAS INTEGRADAS DO
PONTAL**

FUNDADO: 1969

PROGRAMAS: Bacharelado, Licenciatura

URL PROGRAMA ON-LINE:

<http://www.facip.ufu.br/geografia>

CONTATO PROGRAMA DE BACHARELADO: Gerusa

Gonçalves Moura, cocgeo@pontal.ufu.br

SITE DA INTERNET: <http://www.facip.ufu.br/geografia>

CONTATO PARA MAIS INFORMAÇÕES: Gerusa Gonçalves Moura, Coordenadora do Curso, Ituiutaba, Minas Gerais, Brasil, Telefone: (34) 3271-5248, Fax: (34) 3271-5249, cocgeo@pontal.ufu.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O curso de Geografia da Faculdade de Ciências Integradas do Pontal - FACIP/UFU parte do princípio da indissociabilidade entre ensino, pesquisa e extensão, além da necessidade de articulação entre bacharelado e licenciatura. Portanto, apresenta uma estrutura curricular única que visa a preparação simultânea de licenciados e bacharéis, partindo de três núcleos de formação: 1. Núcleo de Formação Específica (constituído por conhecimentos da Ciência Geográfica); 2. Núcleo de Formação Pedagógica (constituído pelos conhecimentos teórico-práticos da área de educação e de ensino); 3. Núcleo de Formação Acadêmico-Científico-Cultural (engloba as atividades acadêmicas complementares e o Trabalho de Conclusão de Curso, que pode ser uma monografia ou um relatório de estágio profissional). Sendo assim, o curso se baseia em linhas de pesquisa que estão relacionadas com os três núcleos de formação da estrutura curricular, citados acima. Essas linhas de pesquisa são: a) Gestão socioambiental em bacias hidrográficas; b) Planejamento e

desenvolvimento regional; c) Ensino de Geografia: desenvolvimento de metodologias e práticas educativas. No que se refere às instâncias, o curso conta com infraestrutura de salas de aula, auditórios e laboratórios para o desenvolvimento das atividades teóricas e práticas, além da possibilidade de realização de viagens de campo. Merecem destaque o Laboratório de Geografia Humana e Ensino; o Laboratório de Geotecnologias; e o Núcleo de Análises Ambientais em Geociências. Essas características do programa e das instalações fornecem subsídios para que os profissionais formados neste curso sejam aptos a: I) analisar as configurações socioespaciais; II) diagnosticar e propor alternativas levando em conta a relação teoria prática; III) elaborar e executar projetos de pesquisas no âmbito da Geografia; IV) tratar o ensino, a pesquisa e a extensão como elementos indissociáveis, de modo que estes possam compor a prática dos profissionais em Geografia; V) desenvolver investigações científicas sobre os aspectos socioeconômicos, políticos e socioambientais, e os processos deles resultantes; VI) habilitar profissionais para o exercício do magistério de Geografia nas séries iniciais/finais do Ensino Fundamental (e/ou) do Ensino Médio em instituições públicas ou privadas de ensino e em todo o território nacional; VII) compreender, de forma ampla e consciente, o processo educativo, considerando as características das diferentes realidades e níveis de especialidade em que se processam.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO,

AJUDA FINANCEIRA: O curso de Geografia da Faculdade de Ciências Integradas do Pontal - FACIP/UFU, que integra as modalidades licenciatura e bacharelado, tem duração de 10 semestres, com carga horária mínima de 3320 horas, sendo: 2040 horas dedicadas para o Núcleo de Formação Específica em Geografia; 1080 horas para o Núcleo de Formação Pedagógica; e mais 200 horas referentes ao Núcleo de Formação Acadêmica-científico-cultural. A estrutura curricular do curso apresenta um conjunto de disciplinas que garantem uma formação balanceada entre os aspectos sociais e ambientais por meio de atividades teóricas e práticas. Cabe ressaltar ainda que ao longo do curso o aluno pode cursar disciplinas optativas e participar de atividades de campo. No que se refere aos requisitos para admissão, o candidato deve ser aprovado no processo seletivo da Universidade Federal de Uberlândia, baseado no Sistema de Seleção Unificada - Sisu, disponibilizando anualmente 26 vagas para o período matutino e 30 vagas para o período noturno. Em relação ao financiamento, existem vários projetos em desenvolvimento com apoio da própria universidade, além de outros órgãos de fomento como a Fundação de Amparo à Pesquisa de Minas Gerais - FAPEMIG, o Conselho Nacional de Desenvolvimento Científico e Tecnológico - CNPq, a Coordenação de Aperfeiçoamento de Pessoal de Nível Superior - CAPES, Ministério da Educação - MEC, entre outros.

PROFESSORES:

Anderson Pereira Portugez — Geografia Humana; Turismo; Desenvolvimento

Antônio de Oliveira Júnior — Planejamento Urbano; Planejamento e Gestão do Território; Sistemas de Infraestrutura do Território

Carlos Roberto dos Anjos Candeiro — Geociências; Paleontologia Estratigráfica; Geografia Física; Paleozoologia

Carlos Roberto Loboda — Geografia Urbana, Espaços Públicos, Áreas Verdes Públicas Urbanas, Geografia Econômica; Ensino de Geografia

Gerusa Gonçalves Moura — Ensino de Geografia, Geografia Urbana, Representações Cartográficas, Representações e Imagens

Gilnei Machado — Climatologia Geográfica; Hidrogeografia; Geoecologia; Geomorfologia; Ensino-Aprendizagem

Hélio Carlos Miranda de Oliveira — Geografia Urbana, Cidade Média, Relação Cidade-Campo, Rede Urbana, Metodologia científica, Educação a distância

Joelma Cristina dos Santos — Geografia Econômica, Geografia Agrária, Geografia do Trabalho, relação capital x trabalho, mundo do trabalho, relação cidade-campo, agroindústria canavieira

Jussara dos Santos Rosendo — Sensoriamento Remoto, Sistemas de Informação Geográfica, Cartografia, Geoprocessamento, Monitoramento de bacias hidrográficas, Uso da terra, Estoque de Carbono nos solos

Kátia Gisele de Oliveira Pereira — Geociências, Geomorfologia, Climatologia, Gestão de bacias hidrográficas, Meio ambiente e cidadania

Maria Beatriz Junqueira Bernardes — Educação ambiental; Ensino de geografia

Nágela Aparecida de Melo — Geografia urbana; Cidade; Campo; Cidade Média; Pequena Cidade

Patrícia Francisca de Matos — Geografia agrária, Modernização da agricultura, Cerrado, Reforma agrária, Movimentos sociais

Rildo Aparecido Costa — Geociências, Geografia Física, Uso e Apropriação do meio físico, Biogeografia, Geomorfologia, Análise de bacias hidrográficas, Planejamento e Gestão Ambiental

Roberto Barboza Castanho — Geoprocessamento, Cartografia, Sistema de Informações Geográficas, Sensoriamento Remoto, Fotointerpretação

Saul Moreira Silva — Geografia física, Geomorfologia, Levantamento e classificação dos solos, Pedologia, Ensino solos

Sérgio Gonçalves — Geografia Humana, Movimento dos Trabalhadores Sem Terra, Desenvolvimento rural, Assentamentos rurais, Geografia agrária e Planejamento regional

Vitor Koiti Miyazaki — Geografia Urbana, Cidade Média, Rede Urbana, Aglomeração urbana, Morfologia urbana

UNIVERSIDAD FEDERAL DO CEARÁ

DEPARTAMENTO DE GEOGRAFIA

FUNDADO: 19 de novembro de 1954

PROGRAMAS: Bacharelado, Mestrado, Doutorado, Licenciatura

URL PROGRAMA ON-LINE:

<http://www.posgeografia.ufc.br/>

CONTATO PROGRAMA DE BACHARELADO:

geograf@ufc.br

BACHARELADOS OUTORGADO ANUALMENTE: 50

CONTATO PROGRAMA DE POS GRADUACAO:

posgeog@ufc.br

POS GRADUACAO OUTORGADO ANUALMENTE: 20

CENTROS DE PESQUISA: Centro de Ciências

SITE DA INTERNET: <http://www.geografia.ufc.br/portal/>

CONTATO PARA MAIS INFORMAÇÕES: Dr. Alessandra Bezerra da Rocha, Fortaleza, Ceará/CE, Brasil, Telefone: (85) 33660000, alessandrarocho@hotmail.com

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O Curso tem como objetivo formar um profissional de Geografia, seja o licenciado, seja o bacharel apto para exercer com eficácia e competência suas funções:- Propiciar meios e instrumentos para o bacharel realizar reconhecimentos, levantamentos, estudos e pesquisas de caráter físico-geográfico, antropogeográfico e geoeconômico no campo específico da Geografia;- Considerando a Geografia como uma Ciência Social que estuda a sociedade através do espaço, o educando deverá ser capaz de analisar, interpretar e pensar criticamente a realidade próxima, tendo em vista sua transformação e contradições espaciais como reflexos das relações sociais.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: O Curso de Geografia ocupa e funciona em edifício de qualidade, no bloco 911, do Campus do Pici da UFC, na

área do Centro de Ciências. Este dado é importante, pois provoca constantes encontros, bem como, facilita o contato com profissionais e pesquisadores de outras áreas do conhecimento de vários setores da Universidade. Em várias ocasiões, participamos de reuniões com esses profissionais. No Departamento de Geografia, desenvolvemos as atividades em vários laboratórios e gabinetes que facilitam as condições de trabalho. O Curso de Geografia foi criado em 1963, e tem prestado significativa contribuição ao desenvolvimento cearense, com a formação de pessoal especializado em diversas áreas. Mantém cursos regulares de Licenciatura e Bacharelado. Em 1995, iniciou o curso de Mestrado em "Desenvolvimento e Meio Ambiente" em conjunto com os Departamentos de Biologia, Economia Agrícola e Geologia. Em 2005, iniciou mais um curso de pós-graduação, o Curso de Mestrado em Geografia. Em 2009, iniciou o Curso de Doutorado em Geografia. Possui instalações apropriadas ao desenvolvimento de várias atividades de Ensino, Pesquisa e Extensão: salas especiais de projeção, auditório acústico e climatizado e salas de aula climatizadas. É equipado com 9 (nove) Laboratórios especializados. O Departamento de Geografia tem mantido CONVÊNIOS com organizações nacionais e internacionais, que têm contribuído para o desenvolvimento de pesquisas em seus laboratórios. Dentre esses destacam-se: PROJETO STATUS Fundação Nacional do Meio Ambiente - Diagnóstico Sócio-Ambiental e da qualidade de vida dos Tremembé de Amofala - Itarema - CE. Concluído ALFA - América Latina - Formação Acadêmica (Comunidade Européia e várias universidades). Concluído Projeto WAVES - UFC / Governo alemão. Concluído CAPES/COFECUB - Departamento de Geografia - Instituto Francês de Urbanismo (Université de Paris 8) - 1995 - 1999. SUDENE - Delimitação e Regionalização do Nordeste Semi-Árido. PETROBRÁS/FIEC - Abastecimento de gás natural para as indústrias de Fortaleza. METROFOR - Trem Metropolitano de Fortaleza. IPLANCE - ÁRIDAS. Prefeitura Municipal de Icapuí - Diagnóstico Sócio-Ambiental. FBFF/FASE/Arquidiocese de Fortaleza: Problemas e Soluções. Arquidiocese de Fortaleza: Delimitação e Mapeamento das Áreas de Índios Tapebas da Região Metropolitana de Fortaleza. CNBB - 2a. Semana Social Brasileira e Ante-Projeto de Lei de Saneamento Básico. URCA - Curso de Especialização.

UNIVERSIDADE FEDERAL DO MARANHÃO

DEPARTAMENTO DE GEOCIÊNCIAS

FUNDADO: 28/07/56

PROGRAMAS: Bacharelado, Licenciatura

SITE DA INTERNET:

http://www.ufma.br/paginas/pagina_cursos.php?cod=4

CONTATO PARA MAIS INFORMAÇÕES: Juarez Soares Diniz, Chefe de Departamento, São Luís, Maranhão, Brasil, Telefone: 98 3301-8330, Fax: 98 3301-8329, juarezsd@yahoo.com.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O profissional da Geografia deve conhecer a natureza através do estudo dos aspectos que interferem na vida e na organização espacial das sociedades e em suas inter-relações. Deve, ainda, estudar os aspectos estruturais da sociedade e as formas como essa sociedade se apropria da natureza. O Bacharel em Geografia poderá exercer, com registro no CREA, atividades de pesquisa, planejamento regional e ambiental, contribuindo para solucionar problemas de organização do espaço nos seus diferentes enfoques. O Licenciado em Geografia está habilitado ao exercício do magistério, fundamental e médio, podendo também atuar no ensino de disciplinas não-instrumentais em cursos superiores de Geografia e afins. Poderá exercer cargos administrativos e/ou integrar equipes de projetos. Seus campos de atuação estão nas diversas instituições de estudo, pesquisa e ensino das áreas das Geociências e Ciências Humanas, especificamente Órgãos públicos e privados de estudos, planos e projetos ambientais (EIAS/RIMAs),

Centros de pesquisas espaciais e afins, Órgãos de planejamento regional e similares, Empresas de produção cartográfica convencional, Políticas urbanas/agrícolas, Ensino público ou privado, Políticas educacionais, Geoestatísticas.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: Para ingressar no curso de Geografia (Bac-Lic) o candidato deve ter concluído o ensino médio e prestar o Exame Nacional do Ensino Médio - ENEM, e estar classificado entre os 48 primeiros lugares. Para integralização do curso na modalidade bacharelado o estudante deve cumprir 112 créditos das disciplinas do Núcleo de Fundamentação Humanística, 16 créditos do Núcleo de Fundamentação Teórico-Complementar, 6 do Núcleo de Estágio Curricular e 14 créditos do Núcleo de Atividades complementares. Na modalidade licenciatura deve cumprir ainda 22 créditos do Núcleo de Formação Pedagógica e 29 do Núcleo das Práticas Pedagógicas e Estágio Curricular

UNIVERSIDADE FEDERAL DO PIAUÍ

FUNDAÇÃO: 1968

SITE: www.ufpi.edu.br

FOR MORE INFORMATION CONTACT: Luiz de Sousa Santos Júnior, Reitor, Campus Universitário Ministro Petrônio Portella - Bairro Ininga - Teresina - PI CEP: 64049-550, Telefone: (86)3215-5525, Fax: (86)3215-5526, comunicação@ufpi.edu.br

ESTRUTURA E ORGANIZAÇÃO: A UFPI é uma instituição de educação superior, mantida pela Fundação Universidade Federal do Piauí – FUFPI (criada pela Lei nº 5.528, de 12.11.68), que goza de autonomia didático-científica, administrativa e de gestão financeira e patrimonial, sediada em Teresina, Estado do Piauí, e que mantém outras Unidades Acadêmicas no interior do Estado. Seus objetivos são: cultivar o saber em todos os campos do conhecimento puro e aplicado, de forma a: a) estimular a criação cultural e o desenvolvimento do espírito científico e do pensamento reflexivo; b) formar diplomados nas diferentes áreas do conhecimento, aptos para inserção em setores profissionais e para a participação no desenvolvimento da sociedade brasileira, e colaborar na sua formação contínua; c) incentivar o trabalho de pesquisa e investigação científica, visando o desenvolvimento da ciência e da tecnologia e da criação e difusão da cultura, e, desse modo, desenvolver o entendimento e do meio em que vive; d) promover a divulgação de conhecimentos culturais, científicos e técnicos que constituem patrimônio da humanidade e comunicar o saber através do ensino, de publicação ou de outras formas de comunicação; e) suscitar o desejo permanente de aperfeiçoamento cultural e profissional e possibilitar a correspondente concretização, integrando os conhecimentos que vão sendo adquiridos numa estrutura intelectual sistematizadora do conhecimento de cada geração; f) estimular o conhecimento dos problemas do mundo presente, em particular os nacionais e regionais, prestar serviços especializados à comunidade e estabelecer com esta uma relação de reciprocidade; g) promover extensão, aberta à participação da população, visando à difusão das conquistas e benefícios resultantes da criação cultural e da pesquisa científica e tecnológica geradas na instituição. A administração da UFPI é realizada nos planos de deliberação e execução, em nível superior e em nível setorial. A deliberação é realizada pelos Conselhos Superiores, que são: 1) Conselho de Administração (CAD), 2) Conselho de Ensino, Pesquisa e Extensão (CEPEX); e, 3) Conselho Universitário (CONSUN).

PROPOSITO DE ORGANIZAÇÃO: Estabelecimento de políticas de ensino, pesquisa e extensão que assegurem níveis crescentes solidez e legitimidade; Defesa de um sistema de educação superior sólido, diversificado, com padrões crescentes de qualidade, atendidos

os requisitos de infra-estrutura e recursos humanos, para possibilitar a sua permanente afirmação como instituição geradora e promotora do conhecimento; Gratuidade de ensino, entendida como a não cobrança de anuidades, taxas ou mensalidades nos cursos/programas de Graduação, de Mestrado e de Doutorado; Defesa permanente da autonomia universitária; Interação continuada com a sociedade; Integração e interação com os demais níveis e graus de ensino; Consolidação crescente dos programas voltados para a inserção nacional e internacional; Apoio ao desenvolvimento de políticas públicas voltadas para a busca de sociedades não discriminatórias, mais igualitárias e mais justas; Gestão racional, transparente e democrática do orçamento e do cotidiano da Universidade; Aperfeiçoamento de um modelo de gestão descentralizada, priorizando a estrutura colegiada e em permanente diálogo com todas as instâncias que compõem a comunidade universitária; Respeito à diversidade das forças que constituem a Universidade, fonte de sua maior riqueza, incluindo-se aí todo o seu corpo social (segmento segmentos docente, discente e de funcionários técnicos e administrativos), assegurando-se a pluralidade de idéias no contexto dos diferentes perfis de atuação.

UNIVERSIDADE FEDERAL DO RIO DE JANEIRO

DEPARTAMENTO DE GEOGRAFIA

FUNDADO: 1935

PROGRAMAS: Bacharelado, Licenciatura, Mestrado e Doutorado

BACHARELADOS OUTORGADOS ANUALMENTE: 35

LICENCIATURAS OUTORGADAS ANUALMENTE: 40

POS-GRADUAÇÕES OUTORGADAS ANUALMENTE: 40

SITE DA INTERNET: www.geografia.ufrj.br

CONTATO PARA MAIS INFORMAÇÕES:

Chefe de Departamento: Prof.ª Msc. Letícia parente Ribeiro
E-mail: depgeografiaufrj@gmail.com Telefone: +55 21 2590-1880
Av. Athos da Silveira Ramos, 274, Cidade Universitária. Rio de Janeiro, RJ, Brasil. Prédio do CCMN, Bloco G, Sala 25. CEP 21941-916.

Coordenador da Pós-Graduação: Prof. Dr. Manoel do Couto Fernandes. Email: ppgg.geografia@ppgg.igeo.ufrj.br, Telefone: +55 21 2270-7773, +55 21 3938-9535. Av. Athos da Silveira Ramos, 274. Cidade Universitária. Rio de Janeiro, RJ, Brasil. Prédio do CCMN, Bloco I, Sala 20. CEP 21941-916

PROGRAMAS E INSTITUIÇÕES DE PESQUISA:

O Departamento de Geografia é um centro de excelência em ensino e pesquisa geográfica no Brasil. O Departamento oferece cursos de graduação (licenciatura e bacharelado) e o Programa de Pós-graduação (mestrado e doutorado), além de cursos de extensão de curta duração. Possui 16 laboratórios, núcleos e grupos de pesquisa onde seus professores desenvolvem trabalhos juntamente com os alunos, nas seguintes linhas de pesquisa: Cultura, Informação e Cidadania; Ambiente e Território; Espaço e Dinâmicas Urbano-Regionais; Geopolítica e Territorialidade; Dinâmica Hidro Climática; Geoprocessamento; Interações Geocológicas e Biodiversidade; Processos Geomorfológicos, Evolução da Paisagem e Ensino de Geografia. Integra o Instituto de Geociências (IGEO), que por sua vez faz parte do Centro de Ciências da Matemática e da Natureza (CCMN).

PROFESSORES:

Ana Luiza Coelho Netto

Ana Maria de Souza Mello Bicalho
 Ana Maria Lima Daou
 André de Souza Avelar
 Antônio José Teixeira Guerra
 Antônio Paulo de Faria
 Carla Bernadete Madureira Cruz
 Claudio Egler
 Dieter Muehe
 Eduardo José Pereira Maia
 Elizabeth Maria Feitosa da Rocha de Souza
 Eve-Anne Buhler
 Flavia Moraes Lins de Barros
 Frédéric Monié
 Gisela Aquino Pires do Rio
 Gislene Aparecida dos Santos
 Iná Elias de Castro
 Jorge Xavier da Silva
 Josilda Rodrigues da S. Moura
 Julia Adão Bernardes
 Letícia Parente Ribeiro
 Lia Osorio Machado
 Manoel do Couto Fernandes
 Marcelo Lopes de Souza
 Maria Náise de Oliveira Peixoto
 Maria Célia Nunes Coelho
 Mônica dos Santos Marçal
 Nelson Ferreira Fernandes
 Olga Becker
 Paulo César da Costa Gomes
 Paulo Márcio Leal de Menezes
 Paulo Pereira Gusmão
 Rafael Silva de Barros
 Rafael Winter Ribeiro
 Rebeca Steiman
 Ricardo Gonçalves Cesar
 Roberto Lobato Corrêa
 Scott William Hoefle
 Telma Mendes da Silva
 William Ribeiro da Silva

UNIVERSIDADE LUTERANA DO BRASIL

CURSO DE GEOGRAFIA

FUNDADO: 16/08/1972

PROGRAMAS: Licenciatura

URL PROGRAMA ON-LINE: Matriz Curricular

Licenciatura - <http://www.ulbra.br/geografia/files/matriz-curricular-geografia-licenciatura.pdf>

Ementas Licenciatura -

<http://www.ulbra.br/geografia/files/ementa-geografia-licenciatura.pdf>

Pós-Graduação -

http://200.196.73.100/modulos/principal/curso_site.php?id=95

CONTATO PROGRAMA DE POS GRADUACAO: Rafael

Lacerda Martins, dirgeografia@ulbra.br

POS GRADUACAO OUTORGADO ANUALMENTE: 10

SITE DA INTERNET: <http://www.ulbra.br/geografia/>

CONTATO PARA MAIS INFORMAÇÕES: Dakir Larara Machado da Silva, Coordenado de Atividades, Canoas, Rio Grande do Sul, Brasil, Telefone: +55 51 3477.9101, Fax: +55 51 3477.1313, dirgeografia@ulbra.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O projeto pedagógico do curso consiste em proporcionar uma formação profissional a todos que buscam formas para conquistar os novos desafios sociais. Nesta perspectiva, o curso atua como centro de um estudo que promove atividades de ensino articuladas com pesquisa e extensão, a formação de profissionais voltados ao diálogo entre as culturas e a inserção efetiva em seu espaço. Este projeto está inserido no atual contexto do meio técnico-científico-informacional, caracterizado pela pós-modernidade, pela globalização da economia e da comunicação, pelo pluralismo político e pela emergência do poder local que está ancorado na autonomia pedagógica e na sua singularidade regional/global. Seu planejamento está em contínuo processo de construção, de forma a adequar as diferentes realidades e planos de estudo. O projeto pedagógico tem uma função articuladora, identificadora, retroalimentadora e ética. E, finalmente, uma função política, enquanto coloca o exercício da educação como algo comprometido com a qualidade de vida da sociedade, seja pela prática profissional, seja pelo exercício consciente da cidadania. O curso de Geografia, fundamentado na missão institucional procura compreender o espaço geográfico de forma dinâmica e totalizante nas suas contradições e desigualdades socioespaciais, visando o conhecimento dialético permanente entre a teoria e a prática. O curso oferece laboratórios que buscam realizar atividades práticas importantes no ensino e aprendizagem, evidenciado por diferentes disciplinas. Nos laboratórios são desenvolvidas atividades de pesquisa, junto aos professores-pesquisadores, contribuindo em metodologias do curso e áreas afins, além de atividades de desenvolvimento teórico-metodológico na área de cartografia e geoprocessamento e de ensino em Geografia. As atividades listadas a seguir dimensionam o trabalho prático e o referencial teórico incorporado no âmbito da estrutura do curso. Pode-se citar como exemplos a elaboração de mapas temáticos com contextos nas áreas ambiental e territorial; elaboração e construção de métodos de representação cartográfica, junto a pesquisadores e alunos do curso de Geografia; auxílio na elaboração de maquetes; preparação de materiais para saída de campo, como cartas imagem e topográficas e empréstimo de aparelhos de GPS; elaboração e edição de pôster (painel) referentes aos diferentes projetos de pesquisa e atividades de disciplinas desenvolvidos no curso de Geografia para divulgação em eventos científicos; procedimentos de elaboração de dados espaciais, como a digitalização de informações cartográficas e edição de informações geográficas para uso na análise, recursos didáticos e no trabalho das disciplinas do curso. Cabe salientar que os laboratórios de informática e geoprocessamento contam com o uso computacional, através de diferentes softwares específicos para a cartografia digital, sendo um excelente meio e uma inovadora ferramenta de trabalho para a representação cartográfica e análise geográfica.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO,

AJUDA FINANCEIRA: O curso de licenciatura em Geografia tem a duração mínima de sete semestres, devendo ser integralizado com uma carga horária total de 2.852 horas/aula. A matrícula no curso é efetivada por disciplina, observadas as compatibilidades de horários e limites mínimos e máximos de créditos estabelecidos, conforme calendário escolar dos demais cursos da Universidade. A conclusão do currículo pleno, tal como reconhecido pelo MEC (Ministério da Educação e Cultura), habilita o acadêmico à obtenção do diploma de licenciado em Geografia.

PROFESSORES:

Dakir Larara Machado Da Silva, Bacharel em Geografia pela UFRGS, Doutor em Geografia/UFRGS, Currículo Lattes: <http://lattes.cnpq.br/9920745735869437>

Heloisa Gaudie Ley Lindau, Licenciada e bacharel em Geografia pela UFRGS, Doutora em Geografia/UFRGS, Currículo Lattes: <http://lattes.cnpq.br/5285221106348139>

Jussara Alves Pinheiro Sommer, Licenciada em Geografia pela ULBRA, Mestre em Geografia/UFRGS, Currículo Lattes: <http://lattes.cnpq.br/4342692596958448>

Rafael Lacerda Martins, *Bacharel em Geografia pela UFRGS, Mestre em Geografia/UFRGS, Currículo Lattes: <http://lattes.cnpq.br/7154902396000406>*

Walter Otmar Steyer *Geógrafo formado pela USP, Mestre em História pela Unisinos, Currículo Lattes: <http://lattes.cnpq.br/9310592827019046>*

Paulo Cesar Pereira das Neves, *Possui graduação em Geologia pela Universidade do Vale do Rio dos Sinos (1986), mestrado em Geociências pela Universidade Federal do Rio Grande do Sul (1992), e doutorado em Geociências pela Universidade Federal do Rio Grande do Sul (1998)*

UNIVERSIDADE REGIONAL DO CARIRI (URCA)

DEPARTAMENTO DE GEOCIÊNCIAS

DATA FOUNDED: March 3rd, 1964

DEGREE OFFERED: Licenciatura (geography education)

GRANTED: average of 30 “licenciados” per semester

STUDENTS IN RESIDENCE: about 600 (80 new students per semester)

CHAIR: João Ludgero Sobreira Neto (Chefe do Departamento)

DEPARTMENT ADMINISTRATIVE ASSISTANT: Tarcisia Pajeu

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Departamento de Geociências, Universidade Regional do Cariri (URCA), Rua Coronel Antonio Luis 1161, 63105-000 Crato, CE, Brazil. Tel. 0055-88-3102.1212 extension 2786, e-mail: geocrato@yahoo.com.br; university website: <http://www.urca.br>; main publication: Cadernos de Cultura e Ciencia (<http://cadernos.urca.br>).

PROGRAMS AND RESEARCH FACILITIES: The Cariri region is a hotspot for research in popular culture, art and religion and can be considered one of the most important paleontological sites in the world due to the extraordinary quality of the fossils found in the Mesozoic limestone layers. For this reason, the faculty maintains close contacts with neighboring departments such as biology, history and social sciences, and is looking forward to establishing international research projects. Program objectives within the department include (1) the study of erosion processes and soil preservation, (2) regional studies, (3) geographic education. Areas of special strength are a) geomorphology, b) environmental zoning, c) geology, d) hydrology, e) geographic education, f) urban violence g) cartography, h) cultural geography, i) cinema and visual culture, j) human-environment interaction, k) landless movement and agrarian reform.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system (spring and fall only). Admission Requirements: Secondary School Certificate; written admission exam (vestibular) about general and specific knowledge twice a year.

FACULTY:

Alexsandra de Oliveira Magalhaes, *MSc in Geography, Fortaleza (UFC), 2006, Assistant Professor — environmental zoning, geocology, biodynamics*

Ana Roberta Duarte Pianco, *MSc in Geography, Recife (UFPE), 1998, Assistant Professor — agricultural geography, agrarian reform, landless movement (MST), geography teaching*

Antônia Carlos da Silva, *MSc in Geography, Fortaleza (UECE), 2000, Assistant Professor — geographic education*

Emerson Ribeiro, *PhD in Geography, São Paulo (USP), 2013, Assistant Professor — geographic education, artistic installations, teacher training*

Firmiana Santos Fonseca Siebra, *MSc in Regional Development, Crato (URCA), 2002, Assistant Professor — urban geography, regional geography, economic geography*

Francisco das Chagas Sousa da Costa, *MSc in Geochemistry, Salvador (UFBA), 1999, Associate Professor — geomorphology and environment, ecological zoning*

Francisco Marcelo Bezerra de Almeida, *Specialist in Geography, Crato (URCA) — Geographic thought, population geography*
Glaucio Vieira Fernandes, *MSc in Geography, Fortaleza (UECE), 2001, Associate Professor — geography teaching; geography and cinema, visual methods*

Ivan da Silva Queiroz, *PhD in Urban Planning, Recife (UFPE), 2013, Associate Professor — urban geography, urban violence*

João Cesar Abreu de Oliveira, *PhD in Education, Fortaleza (UFC), 2008, Associate Professor — agricultural geography, social movements, urban environments*

João Ludgero Sobreira Neto, *Specialist in geopolitics and environmental law; Assistant Professor — agricultural geography, population geography, environmental geography*

Jörn Seemann, *PhD in Geography, Louisiana State University, 2010, Associate Professor — cultural geography, maps and society, culture history, history of cartographic and geographic thought, cartographic education*

Josier Ferreira da Silva, *PhD in Brazilian Education, Fortaleza (UFC), 2009, Associate Professor — territorial formation, geographical and historical processes, history of education, human-environment interaction*

Juliana Maria Oliveira Silva, *PhD in Geography, Fortaleza (UFC), 2013 — climatology; hidrology; watershed management.*

Lireida Maria Albuquerque Bezerra, *MSc in Geography, Fortaleza (UFC), 2013, Assistant Professor — urban geography, environmental geography*

Maria de Lourdes Carvalho Neto, *Msc in Geography, Fortaleza (UFC), 2007, Assistant Professor — environmental geography, geomorphology, GIS*

Maria Soares da Cunha, *MSc in Geography, Recife (UFPE), 1998, Associate Professor — agricultural geography, geography teaching, regional geography*

Ricardo Mota Bacurau, *Specialist, Fortaleza (UFC), Associate Professor — industrial geography, regional development*

Rogério Wayne Noronha, *Specialist, Fortaleza (UFC), Associate Professor — climatology*

Simone Cardoso Ribeiro, *PhD in Geography, Rio de Janeiro (UFRJ), 2012, Associate Professor — ethnogeomorphology, environmental analysis, erosion processes and conservation, applied geomorphology and soil science*

EMERITUS FACULTY:

Alvimir Alves de Oliveira, *PhD in Geology, Recife (UFPE), 2006, Associate Professor — geology*

Edith Oliveira de Menezes, *MSc in Geography, São Paulo (USP), 1998 — urban geography*

UNIVERSIDADE REGIONAL DO NOROESTE DO ESTADO DO RIO GRANDE DO SUL

DEPARTAMENTO DE HUMANIDADES E EDUCAÇÃO
FUNDADO: 16/03/1956

PROGRAMAS: Licenciatura, Licenciatura (à Distância/Virtuais)

URL PROGRAMA ON-LINE:

<http://www1.unijui.edu.br/cursos/graduacao/ead-ensino-a-distancia/geografia-ead-licenciatura>

SITE DA INTERNET: www.unijui.edu.br

CONTATO PARA MAIS INFORMAÇÕES: MARIO AMARILDO ATTUATI, COORDENADOR DO CURSO DE GEOGRAFIA, ESTADO DO RIO GRANDE DO SUL, BRASIL, Telefone: 55 3332 0200, Fax: 55 3332 0256, attuati@unijui.edu.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: A UNIJUI matém programas e projetos de pesquisa e extensão por meio dos quais desenvolve intensa interação com a comunidade regional. A Geografia está alocada no Departamento de Humanidades e Educação, que conjuntamente com outras áreas do conhecimento desenvolve ações nas áreas de planejamento urbano, meio ambiente e formação continuada de professores para a Educação Básica. Estas atividades são organizadas e executadas com o apoio da estrutura da Universidade e mais especificamente dos laboratórios de Geoprocessamento e Análise Territorial, Recursos Hídricos e Ensino de Ciências Sociais. O curso de Geografia - licenciatura plena atualmente é oferecido na modalidade de educação à distância (EaD). Os alunos tem acesso a material impresso e recebem atendimento via ambiente virtual "CONECTA - UNIJUI". Demais informações podem ser obtidas através do site www.unijui.edu.br

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: OBJETIVO: o curso de Geografia - licenciatura, pretende formar profissionais para atuar na educação básica, no componente curricular específico - Geografia, com formação intelectual adequada à contribuição que a geografia pode dar para o conhecimento e interpretação do mundo, no sentido de formar cidadãos que tenham uma visão da realidade capaz de os situar na dinâmica atual e perceber os caminhos possíveis para tornar o mundo mais justo e humano. **ORGANIZAÇÃO CURRICULAR:** para concretizar a proposta político-pedagógica organizou-se uma estrutura curricular e uma sequência semestral das atividades acadêmicas, bem como parâmetros para o processo ensino-aprendizagem, tendo em vista o perfil do profissional da Geografia formado pela UNIJUI. Estabeleceu-se a participação das diversas áreas na formação do profissional da Geografia, os eixos de interseção das mesmas com a ciência geográfica, ao longo do curso, bem como a sequência pedagógica recomendada. O currículo foi estruturado em nove conjuntos de componentes curriculares que traduzem a proposta político-pedagógica do curso de Geografia. Constitui-se de componentes curriculares que tratam da formação humanística e da formação acadêmico-profissionalizante, visando atender as orientações gerais presentes na proposta de Diretrizes Curriculares Nacionais previstas para a graduação em Geografia, bem como às Diretrizes Institucionais do Ensino na UNIJUI e de sua operacionalização nos termos das Resoluções CONSU n.º 21/2005 e 29/2005. Os componentes curriculares da formação humanística desenvolvem a reflexão sobre a condição humana e a cidadania, construindo a identidade deste programa de ensino e do acadêmico de Geografia com a Universidade. Os componentes curriculares da formação acadêmico-profissionalizante desenvolvem as "dimensões teórico-prática, técnico-científica e humanística" necessárias à formação inicial do profissional da Geografia. Estão distribuídos nos

conjuntos, a saber: Fundamentos de Geociências; Fundamentos de Ciências Sociais; Instrumentalização em Geografia; Interação Profissional; Teoria, Método e Análise Geográfica; Práticas Geográficas; Formação Pedagógica e Opções Livres. Cada conjunto contempla uma parte de conteúdos essenciais para a aquisição do conhecimento geográfico, o conhecimento geográfico em si e, ainda, a educação geográfica ou o reconhecimento do mundo do trabalho. A proposta curricular prevê o atendimento de especificidades voltadas à formação de professores através de um conjunto de componentes curriculares que trata da investigação voltada para a educação geográfica. O conjunto que trata da interação profissional deve adequar-se as práticas pedagógicas necessárias ao processo de formação inicial do profissional da Geografia. OBS: sobre requisitos de admissão e ajuda financeira consultar www.unijui.edu.br

PROFESSORES:

Bernadete Maria de Azambuja — mestre em Geografia, UFSC Geografia, Urbana

Célia Clarice Atkinson — mestre em Geografia, UFSC, Geografia Urbana

Dóris Ketzer Montardo — mestre em Geologia, UFRGS, Geociências
Helena Copetti Callai — doutora em Geografia, USP, Ensino de Geografia

Leonardo Dirceu de Azambuja — doutor em Geografia, UFSC, Ensino de Geografia

Mario Amarildo Attuati — mestre em Geografia, UFSC, Geoecologia /Cartografia O corpo docente do curso conta também com a contribuição de professores das áreas de Economia, Pedagogia, História, Matemática, Sociologia e Psicologia

CHILE

PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE

INSTITUTO DE GEOGRAFÍA

DEGREES OFFERED: Bachiller - Licenciatura en Geografía, Título profesional de Geógrafo, Diplomado, Magister y Doctorado

POINT OF CONTACT: Dr. Federico Arenas, Profesor – Director, (56) 2-6864716

WEB SITE: www.geografia.uc.cl

FOR CATALOG AND FURTHER INFORMATION WRITE TO /DIRECCION INSTITUTO DE GEOGRAFIA: Av. Vicuña Mackenna 4860, Casilla 306-Correo 22, Código Postal 6904411, Comuna de Macul, Santiago, Chile. Teléfono (56) 2-354 4716 - Fax: (56) 2-552 6028.

PROGRAMS AND RESEARCH FACILITIES: Los académicos del Instituto desarrollan una serie de proyectos de investigación, dentro de las líneas de: Ordenación territorial; evaluación y estudios de impacto ambiental; catastro y evaluación de recursos naturales con aplicaciones específicas en el litoral; estudios de riesgos naturales y su modelación (tsunami); estudios de caracterización socioeconómica de la población; estudios del medio ambiente urbano; estudios urbanos relativos a vivienda social y gobernanza metropolitana; aprovechamiento de neblinas como recurso hidrológico; ecosistemas de niebla y educación ambiental como línea de investigación aplicada a la docencia. Además, como línea complementaria a todos los proyectos de investigación en nuestro Instituto, se destaca el uso y manejo de tecnologías geomáticas, representadas por Sistemas de Información Geográfica (SIG), Sistemas de Posicionamiento Global (GPS) y Percepción Remota. Estos proyectos son financiados por

DIPUC, FONDECYT; Centre de Recherches pour le Development International (IDRC), y Supply and Services, de Canadá.

ACADEMIC PROGRAMS, ADMISSION REQUIREMENTS AND FINANCIAL AID:

Pregado: Bachiller - Licenciatura en Geografía y título profesional de Geógrafo. El Geógrafo de la UC es un profesional especializado en el conocimiento de las interrelaciones del hombre con su medio ambiente natural, capacitado para desempeñarse en actividades de investigación, planificación, desarrollo y administración del espacio geográfico, en beneficio de la sociedad. Entre las asignaturas están: Geografía Física General, Climatología, Geomorfología Estructural, Geografía Regional del Mundo. Algunos Cursos que permiten la obtención del Título de Geógrafo son: Desarrollo Urbano, Planificación Territorial, Medio Ambiente y Desarrollo Sustentable. A partir del tercer semestre se desarrollan, además, prácticas en terreno.

Diplomado: a) Sistemas de Información Geográfica, b) Geomática y c) Reducción del Riesgo de Desastres: prevención y gestión. Programas de especialización orientados a profesionales que desean mantenerse al día en los conocimientos, habilidades y destrezas que caracterizan a su actividad o bien quieren extender su conocimiento hacia áreas complementarias, o acceder al manejo de nuevos procedimientos o tecnologías.

Magister: Magister en Geografía y Geomática. Los contenidos de este Magister se sitúan en el cruce de los métodos y técnicas de las líneas de investigación del Instituto de Geografía de la UC, el uso de la geomática y problemas geográficos específicos derivados de la acción humana en la superficie terrestre. El objetivo general es conocer y aplicar métodos, técnicas y tecnologías basados en la geomática y que se utilizan en la investigación geográfica para la solución de problemas que tienen que ver con el uso del territorio, desde una visión que compatibilice las potencialidades y restricciones físico-naturales con las diversas actividades humanas.

Doctorado: tiene como objetivo formar investigadores y docentes, para desempeñarse en instituciones universitarias y equivalentes; así como profesionales de alto nivel académico y con capacidad crítica, que logren ser un aporte a la sociedad actual, tanto en el sector público como privado, a través de la investigación, comprensión y solución de problemas claves, que tengan relación con la ocupación humana sobre la superficie terrestre. Sus áreas de investigación son: Metropolización y geografía urbana, Periurbanización y geografía rural, Biogeografía, cambio climático y estudios del cuaternario, Riesgos naturales, Geomorfología y espacio litoral y Geografía histórica, espacio y territorio.

PUBLICACIONES: Revista de Geografía Norte Grande, Serie GEOlibros.

FACULTY:

ARENAS VÁSQUEZ, FEDERICO — Doctor en Ciencias Económicas y Sociales, de la Universidad de Ginebra y Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: Planificación urbana y regional y Ordenamiento territorial. Profesor Titular

ASTABURUAGA, JUAN PABLO — Magister en Geografía y Geomática y Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: ordenamiento territorial y Sistemas de Información Geográfica. Profesor Asistente Adjunto.

CARVACHO BART, LUIS — Doctor Universidad de Alcalá de Henares, España. Geógrafo, Licenciado en Geografía, P.U.C.Ch. Área de investigación: SIG, Geomática. Profesor Asociado.

DEL RÍO LÓPEZ, CAMILO — Magister en Geografía y Geomática y Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: Percepción Remota, Geomática. Profesor Asistente Adjunto

GARCÍA, JUAN LUIS — Doctor en Ciencias de la Tierra, University of Maine, Estados Unidos, y Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: Cambios climáticos del Cuaternario, geomorfología y geología glacial. Profesor Asistente.

GONZÁLEZ LEIVA, JOSÉ IGNACIO — Doctor en Geografía de la Universidad de Barcelona, España. Área de investigación: Cartografía, Geografía matemática y Geografía electoral. Profesor Titular.

HENRÍQUEZ RUÍZ, CRISTIÁN — Doctor en Ciencias Ambientales (EULA) y Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: Impacto ambiental, planificación territorial, geomática y ecología urbana. Profesor Asociado.

HIDALGO DATTWYLER, RODRIGO — Doctor en Geografía humana con mención en Pensamiento Geográfico y Organización del Territorio de la Universidad de Barcelona, España. Área de investigación: Geografía humana, estudios sociales, urbanos y planificación territorial. Profesor Titular.

LAGOS LÓPEZ, MARCELO — Doctor en Ciencias Ambientales de la Universidad de Concepción y Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: Geografía física, medio ambiente, riesgos naturales y geomática. Profesor Asociado

LAMBERT, FABRICE — Doctor en física climática de la University of Bern, Suiza. Magister en Física experimental, University of Bern, Suiza. Área de investigación: Paleoclimatología, Aerosoles, Contaminación Urbana. Profesor Asistente.

LOZANO PARRA, JAVIER — Doctor en Geografía Física por la Universidad de Extremadura (España). Máster en Sistemas de Información Geográfica y Teledetección por la Universidad de Girona (España). Área de investigación: Ecología; Hidrología; Modelización ecohidrológica; Sistemas de Información Geográfica; Geografía física. Profesor Asistente.

MARTÍNEZ REYES, CAROLINA — Doctora por la Universidad de Barcelona (España), Magister en Geografía por la Universidad de Chile y Geógrafo por la Universidad de Playa Ancha. Área de investigación: Evolución costera, Geomorfología y morfodinámica de ambientes costeros, Riesgos Naturales en la costa, Manejo costero. Profesor Asistente.

NARANJO RAMÍREZ, GLORIA — Magister en Asentamientos Humanos y Medio Ambiente y Geógrafo de la Pontificia Universidad Católica de Chile. Cursando Programa de Doctorado en Arquitectura y Estudios Urbanos de la Facultad de Arquitectura, Diseño y Estudios Urbanos de la Pontificia Universidad Católica de Chile. Área de investigación: Geografía humana, rural, agraria, medio ambiente y ordenamiento territorial. Profesora Asistente.

NUÑEZ, ANDRES — Doctor en Historia de la Pontificia Universidad Católica de Chile y posdoctorado en Geografía en la misma casa de estudios. Área de investigación: Geografía Social, Geografía Cultural y Geografía Histórica. Profesor Asistente.

OSSES McINTYRE, PABLO — Magister en Economía Agraria y Geógrafo de la Pontificia Universidad Católica de Chile. Áreas de investigación: Geografía Física, Medio Ambiente, Economía y Territorio. Profesor Asociado.

PAULSEN BILBAO, ABRAHAM — Geógrafo, Pontificia Universidad Católica de Chile. Candidato a Doctor en Territorio, Sociedad y Medioambiente de la Universidad Autónoma de Madrid (UAM). Suficiencia investigativa en Psicología Educativa de la Universidad Autónoma de Madrid (UAM). Profesor Asistente

PLISCOFF, PATRICIO — Doctor en Ciencias de la Vida, Université de Lausanne, Suiza, Magister en Ciencias Biológicas, Universidad de Chile y Geógrafo de la Pontificia Universidad Católica de Chile. Área de Investigación: Biogeografía, Ecología, Bioclimatología, Biología de la Conservación. Profesor Asistente, Interdisciplinario (Instituto de Geografía, Facultad de Historia, Geografía y Ciencia Política, y Departamento de Ecología, Facultad de Ciencias Biológicas).

QUENSE ABARZUA, JORGE — Geógrafo de la Pontificia Universidad Católica de Chile. Doctor en Medioambiente de la

Universidad Joseph Fourier de Grenoble, Francia. Área de investigación: geomática, ordenamiento territorial, Geografía de la montaña. Profesor Asistente.

REHNER, JOHANNES — Geógrafo, doctorado (Dr. oec. publ.) de la Ludwig-Maximilians-Universität München (LMU), Alemania. Áreas de investigación: geografía económica y urbana, estudios asiáticos y geografía cultural. Profesor Asociado.

SALAZAR BURROWS, ALEJANDRO — Doctor en Ciencias Sociales del Institut National Agronomique Paris-Grignon (INA P-G), Francia y Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: Geografía humana, rural, espacios periurbanos y ordenamiento territorial. Profesor Asociado.

SAGREDO, ESTEBAN — Doctor en Geología, University of Cincinnati, Estados Unidos. Magíster en Ciencias (Ecología y Biología Evolutiva), Universidad de Chile. Geógrafo, Pontificia Universidad Católica de Chile. Área de Investigación: (1) Fluctuaciones glaciales en Sudamérica desde el Último Máximo Glacial; (2) Sensibilidad glacial a cambios climáticos; (3) Paleoclimatología. Profesor Asistente.

SÁNCHEZ MARTÍNEZ, MARCELA — Doctora en Filosofía y Letras, sección Geografía, Programa de Cartografía, Sistemas de Información Geográfica y Teledetección, Universidad de Alcalá de Henares, España. Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: Geografía física y geomática. Profesor Asociado.

SÁNCHEZ ACUÑA, RAFAEL — Doctor en Geografía, Universidad de Innsbruck (Austria). Geógrafo y Licenciado en Historia de la Pontificia Universidad Católica de Chile. Área de investigación: Geografía Humana, Geografía urbana y Geografía del Turismo. Profesor Asistente.

UNIVERSIDAD ACADEMIA DE HUMANISMO CRISTIANO

DEPARTAMENTO DE GEOGRAFÍA

FECHA DE FUNDACION: 1975

PROGRAMAS DE ESTUDIO: Grado asociado/técnico,
Licenciatura, Maestría

CONTACTO PARA PROGRAMA DE PREGRADO: Dra.

Macarena Barahona Jonas mbarahona@academia.cl

LICENCIATURAS OTORGADAS ANUALMENTE: 10

CENTROS DE INVESTIGACION: Programa de
Investigaciones e Intervenciones Territoriales (PIIT)

SITIO WEB: www.geoacademia.cl

PARA PEDIR UN CATÁLOGO Y MÁS INFORMACIONES, FAVOR DE ESCRIBIR A: Macarena Barahona Jonas, Jefa de Carrera y Directora de la Escuela de Geografía. Santiago, Chile, Teléfono: 56-2-27878316, Fax: 56-2-7878213, mbarahona@academia.cl

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN:

Geografía al servicio de la Transformación Social. Este proyecto aporta a la sociedad con especialistas en la comprensión e interpretación de los fenómenos espaciales, cuyo sello es el compromiso con la resolución de problemáticas sociales. Responde así, al vertiginoso desarrollo de la disciplina geográfica en distintos lugares del mundo, al ascenso del discurso espacial como una dimensión estructurante de los procesos sociales, al desarrollo desigual del territorio que que ha generado el capitalismo y al estancamiento teórico-metodológico del quehacer geográfico chileno. La carrera de Geografía se estructura sobre principios humanistas y se orienta tanto al desarrollo de profesionales de alto nivel, investigadores e interventores de los procesos de producción de espacio geográfico, como a especialistas en la reconstitución de las relaciones ser humano-medio y/o sociedad-naturaleza. Se propone un

itinerario formativo que permite la rearticulación y recomposición del mundo de la vida, desde la comprensión profunda de los procesos físico-naturales y humano-sociales, con énfasis en procedimientos de investigación e intervención social. El currículum formativo dialoga con las miradas clásicas y se abre a nuevas apuestas teóricas como las críticas, postcríticas, deconstruccionistas, humanísticas, de estudios subalternos y de estudios postcoloniales, casi ausentes en la formación de geógrafos en Chile. Al mismo tiempo, la apuesta formativa se estructura sobre la base de un ingreso progresivo de nuestros estudiantes a los centros de prácticas desde el primer año, teniendo como modelo, la inclusión profesional temprana, potenciando la reflexión crítica en acción y la posibilidad de tensionar el desarrollo del conocimiento profesional del Geógrafo. En este contexto se han desarrollado tres líneas de investigación que responden a tres campos problemáticos del espacio que se intenta estudiar, comprender y transformar: 1-Existe una necesidad creciente de profundizar en los procesos físico-naturales que estructuran y dinamizan los espacios geográficos. Estos procesos van configurando y en cierta medida, moldeando las formas de organización social y cultural que los grupos humanos tienen. En este sentido, los ambientes que pueden ser considerados como “de primera naturaleza” han sido sometidos a fuertes e incesantes acciones antrópicas poniendo en jaque los precarios equilibrios físicos, químicos y biológicos y conformando situaciones de extrema fragilidad, vulnerabilidad y peligrosidad. La re-constitución de los sitios de riesgo, que deviene de un uso “poco adecuado” del territorio por parte de los grupos humanos, requiere del estudio acabado de los sistemas morfológicos, hidrográficos, biogeográficos, oceanográficos, pedológicos y climatológicos. Con ello, se ha considerado prioritario el establecimiento de una línea de investigación que pueda aglutinar los esfuerzos de académicos que intentan por variadas vías metodológicas, estudiar los distintos ambientes físicos de nuestro país y su relación con la conformación de situaciones de riesgo. En esta línea actualmente se desarrollan proyectos de investigación regulares de financiamiento interno NTI y con colaboración de equipos nacionales e internacionales. 2-El ascenso de la diferencia, la rotura del pensamiento parametral y la incorporación de la subalternidad en los estudios sobre la ciudad y sobre el campo, han permitido dotar a la Geografía, de nuevas perspectivas de análisis en el estudio de los circuitos de vida urbano-rural. En este sentido el papel del sujeto que se proyecta en el espacio y que corporiza los procesos de acumulación y movilidad de capital, es trascendental para comprender las problemáticas sociales y las tensiones propias de la alta modernidad. En este escenario surge la posibilidad de instalar una plataforma investigacional que se ha centrado en los conflictos urbanos y rurales propios del encuentro multicultural en contexto de capitalismo tardío. En esta línea actualmente se desarrollan proyectos de investigación regulares de financiamiento interno NTI, como de financiamiento nacional FONDECYT, con colaboración de equipos nacionales e internacionales. 3-Esta línea condensa el trabajo realizado en temáticas relacionadas con la enseñanza y el aprendizaje de la Geografía en contextos educativos diferenciados. Pone énfasis en la necesidad de indagación de los espacios educativos sobre los cuales se ejecuta la acción pedagógica y valoriza de modo especial la forma en la que el contenido espacial contribuye al encuentro de actores educativos. En este sentido, se trabaja con perspectivas teóricas que permiten, tanto densificar el debate sobre la educación geográfica, como colocar al centro la idea de una enseñanza que transforma las condiciones materiales de existencia de los sujetos que participan del acto educativo. Se intenta develar estructuras de dominación, exclusión y subordinación, y se explora en los mecanismos de cambio e innovación que son posibles de ser pensados-y concretados, en el mundo escolar. En esta línea actualmente se desarrollan proyectos de investigación regulares de financiamiento interno NTI, como de financiamiento nacional FONDECYT, con colaboración de equipos nacionales e internacionales. Todas estas producciones se colocan al servicio de las actividades académicas regulares que tienen impacto en la vinculación de la unidad académica con el medio. Especial importancia tiene: el Seminario de Resistencias Territoriales (con nueve versiones al año 2014), el Ciclo sobre Geografía y Debate

Teórico Contemporáneo (nueve versiones al año 2014) y el Ciclo de Conferencias sobre la Naturaleza del Espacio (diez versiones al año 2014). Del mismo modo el proyecto IPES Intervención+Posibilidad+Espacio (con tres versiones al año 2014) fortalece el vínculo específico con las instituciones que participan del ingreso temprano al campo profesional de nuestros estudiantes (ONG's, Consultoras, Departamentos Ministeriales, Departamentos Municipales, Fundaciones, etc.)

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA

FINANCIERA: El Plan Formativo está compuesto de tres subcomponentes curriculares: Plan General Universitario (orientado al desarrollo de desempeños en la "actuación profesional CRÍTICA"), Plan Común de Área (orientado al desarrollo de desempeños comunes al campo de las ciencias sociales) y Plan de Especialidad (orientado al desarrollo de desempeños en las líneas de formación disciplinar: eje humano-social; eje físico-natural, eje de integración teórico-práctica). La duración del plan es de 5 años. Al cuarto año y luego de haber completado tanto la totalidad de los créditos como la defensa del Seminario de Grado, el estudiante recibe el grado de Licenciado en Geografía. Al quinto año, si completa los créditos complementarios de cursos profesionalizantes y aprueba la defensa de los resultados de su práctica, el estudiante recibe el título profesional de Geógrafo. En detalle, el perfil de egreso se estructura en torno a desempeños que se detallan a continuación: Desempeños de orden actitudinal esperados al final del proceso formativo * Propiciar la explicitación de la subjetividad espacial como mecanismo de entrada a la comprensión de los fenómenos territoriales, paisajísticos, geosistémicos, ambientales, regionales y lugarizados. * Promover la educación geográfica como pilar fundamental de la conciencia espacial de los sujetos a través de estrategias formales de enseñanza que promuevan aprendizajes situados y contextualizados de los contenidos curriculares. * Asignar relevancia a las instancias de encuentro pluridisciplinar como mecanismo de acción colectiva sobre los espacios. Desempeños de orden conceptual esperados al final del proceso formativo * Manejar contenidos conceptuales referidos al campo de la estructuración física y humana del espacio geográfico con la finalidad de ponerlos al servicio de las investigaciones e intervenciones sobre lo social. * Reflexionar sobre la producción de discurso geográfico como primera fuente de acción espacial, movilizandoo creencias epistemológicas que permitan la comprensión y /o explicación diagnóstica de los espacios geográficos (en sus dimensiones territoriales, paisajísticas, geosistémicas, ambientales, regionales y lugarizadas). * Construir un espacio interrelacional entre los procesos de estructuración física y los procesos de estructuración humana en perspectivas multiescalares y con la finalidad de resolver tensiones entre el mundo objetivo y el subjetivo. * Comprender cómo los procesos de integración, polarización y diferenciación de las relaciones ser humano-medio actúan como dispositivos para dotar a los espacios de una cierta localización y distribución. Desempeño de orden procedimental esperados al final del proceso formativo. * Diseñar e implementar acciones de intervención e investigación espacial que permitan movilizar contenidos, teorías y metodologías tanto del campo de las Ciencias Sociales como aquellas propiamente geográficas en situaciones de problemáticas y tensiones socio-espaciales. * Diseñar e implementar acciones tendientes a la innovación de los campos de intervención e investigación, estableciendo sinergias entre diagnósticos y estrategias ya instaladas en torno a problemáticas y tensiones socio-espaciales. * Promover la instalación del trabajo de campo como instancia de sinergia entre técnicas al servicio de la investigación y la intervención espacial.

PROFESORADO:

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Alejandra Mora Soto, *Geógrafa, Universidad de Chile Diplomada en Geomática Aplicada, Universidad de Chile Master en Ciencias en Monitoreo, Modelamiento y Manejo Ambiental, Universidad King's College London, Reino Unido.*

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Mauricio Calderón Sánchez, *Ingeniero Agrónomo Universidad de Chile, Magíster en Ciencias Agropecuarias Mención en Producción de Cultivos*

UNIVERSIDAD CATÓLICA SILVA HENRÍQUEZ

ESCUELA DE EDUCACIÓN EN HISTORIA Y GEOGRAFÍA

FECHA DE FUNDACION: 12 de mayo de 1983

PROGRAMAS DE ESTUDIO: Pedagogía en Historia y Geografía

SITIO WEB: <http://fe.ucsh.cl/escuelas/escuela-de-educacion-en-historia-y-geografia/>,
<https://www.facebook.com/historiaygeografiaucsh/>

PARA PEDIR UN CATÓLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIR A: Patricia Campos pcampos@ucsh.cl

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN:

Los profesores de Historia y Geografía de esta universidad se caracterizan por una mirada transdisciplinaria de los problemas histórico-sociales y por una comprensión del medio geográfico como asiento de la cultura que necesariamente debe protegerse para las futuras generaciones. Se trata de profesionales comprometidos, responsables, con vocación social y que cuentan con las competencias profesionales que se exigen en cada área de formación respectiva.

En la UCSH existe un ambiente de acompañamiento y calidad humana propia de una institución que se hace cargo del legado del Cardenal Raúl Silva Henríquez porque somos una institución acreditada con una reconocida tradición en formación de profesionales sin fines de lucro. Existe un compromiso con la excelencia académica, que se evidencia en su infraestructura en constante proceso de adaptación a las necesidades de los estudiantes, en la presencia de destacados académicos e investigadores que trabajan para la construcción del conocimiento que se transmite.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA:

Los jóvenes interesados en postular a la Universidad Católica Silva Henríquez, deberán rendir la Prueba PSU (Lenguaje, Matemáticas, Ciencias y/o Historia y Ciencias Sociales), y realizar su postulación, en conjunto con las universidades del CRUCH y las privadas adscritas al Sistema Único de Admisión (SUA), en el sitio del DEMRE.

Para continuar con el proceso de postulación a las carreras de pedagogías en la UCSH, deberán cumplir con algunas de las exigencias de la Ley 20.903 para continuar con su proceso de selección universitaria:

Haber rendido la PSU y obtener un rendimiento que lo ubique en el percentil 50 o superior en el promedio de las pruebas obligatorias. (Este puntaje fluctúa entre 496, 5 y 500 puntos aproximadamente) O, bien: Tener un promedio de notas de la educación media dentro del 30% superior de su establecimiento.

En el caso de no cumplir con las condiciones mencionadas anteriormente, podrían postular por la vía especial siempre y cuando cumplan con el siguiente requisito: Haber realizado y aprobado un programa de preparación y acceso de estudiantes de enseñanza media para continuar estudios de pedagogía reconocido por el Ministerio de Educación y rendir la Prueba de Selección universitaria PSU.

PROFESORADO:

Natalia Contreras Quiroz, *Profesora de Historia y Geografía, Licenciada en Educación, Magíster en Asentamientos Humanos y Medio Ambiente, Máster en Docencia Universitaria*

Nelson Infante Fabres, *Geógrafo, Doctor en Geografía Paisaje y Medio Ambiente, Magíster en Educación con Mención en Gestión Educacional, Máster En Estudios Avanzados, Diplomado en Gestión Económica, Recursos Naturales y Medio Ambiente*

Antonia Zambra Álvarez, *Geógrafa, Master en Antropología, Medio Ambiente y Desarrollo, Diplomado en Estudios de Género*

Camilo Contreras Carvajal, *Geógrafo, Magíster Planificación y Gestión de Riesgo de Desastres, Diplomado en Docencia Universitaria*

UNIVERSIDAD DE CHILE

FACULTAD DE ARQUITECTURA Y URBANISMO ESCUELA DE GEOGRAFÍA

SANTIAGO DE CHILE

DATE MASTER'S DEGREE CREATED: 1984

DEGREES OFFERED: Licenciatura en Geografía.

Geógrafo, Profesional

DIRECTOR ESCUELA: Dr. Fernando Pino Silva

DIRECTOR DEPARTAMENTO: MSc. María Victoria Soto

PROGRAMS AND RESEARCH FACILITIES: Entre 1889 y 1890, el geógrafo alemán Hans Steffen organizó la enseñanza de la Geografía en la Universidad de Chile, formando las primeras generaciones de profesores y realizando las primeras investigaciones. En esta etapa inicial, la Escuela de Steffen, formado bajo la guía del Dr. Ferdinand von Richthofen de la Universidad de Berlín, marcó el sello de la tradición alemana y de la geografía científica en Chile.

Con centro en el Instituto de Geografía y en el Departamento de Geografía del Instituto Pedagógico de la Universidad de Chile, se desarrolló un vigoroso movimiento de formación, investigación y difusión geográfica que condujo a la creación de centros de docencia e investigación en provincias, a la presencia renovadora del enfoque geográfico en los organismos públicos y de organización territorial, y a la renovación de los contenidos geográficos en la enseñanza básica y media.

Desde inicios de los 80's, la enseñanza impartida por la Escuela y por otra, la investigación en el Departamento, son armonizados con modernos métodos, incorporándose laboratorios, técnicas de teledetección y sistemas computacionales en forma progresiva.

La carrera de Geografía se consolida como tal en la Escuela de Geografía a mediados de la década de 1960, continuando en forma ininterrumpida hasta la fecha.

Grado Académico ofrecido: Licenciatura en Geografía, Magister en Geografía

Título Profesional ofrecido: Geógrafo. El programa de Magister en Geografía, fue creado en 1984, y acreditado en 2004.

La docencia de postgrado se fundamenta ineludiblemente en la investigación científica y esta última es una actividad dinámica que se complica y enriquece permanentemente con el acceso al conocimiento universal, al ejercicio interdisciplinario y al diseño de nuevos sistemas de generación y análisis de datos e informaciones.

Pocas áreas han experimentado una ampliación tan grande como el conocimiento geográfico durante las últimas décadas, debido en especial al vertiginoso desarrollo de los sistemas de observación remota del comportamiento de la Tierra, así como a la disponibilidad de cada vez más sofisticados instrumentos para el modelamiento y predicción de escenarios futuros.

Grado Académico ofrecido: Magister en Geografía, Mención Recursos Territoriales, Mención Organización Urbano Regional

UNIVERSIDAD DE LA SERENA

AREA DE CIENCIAS GEOGRAFICAS

DATE FOUNDED: 1980

GRADUATE PROGRAM FOUNDED: 1995 (Masters)

DEGREES OFFERED: Pedagogy in Geography, Masters in Geography

GRANTED: Bachelors, 260; Masters, 2

STUDENTS: Masters, 12

CHAIR: Dr. Fabián Araya Palacios

MASTER ACADEMIC PROGRAM COORDINATOR:

Dr. Guido Veliz

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. Guido Veliz (Graduate Program Coordinator), Area de Ciencias Geográficas, Departamento de Ciencias Sociales, Campus Andres Bello, Colina El Pino s/n. Universidad de La Serena, La Serena, Chile. Phone Number: 56-55-204337, Fax Number: 56-55-204314; e-mail address: gveliz@userena.cl.

PROGRAMS AND RESEARCH FACILITIES: The Area of Geographical Sciences (AGS) offers Geography Programs at Undergraduate (Pedagogy) and Graduate (Master) levels and these Programs provide training in Regional and Systematic Studies. In addition, since Geography shares almost half of its coursework with History students, interdisciplinary work is practiced with field work, adding other social sciences as well. The Department of Social Sciences, where the AGS is housed, aims to strengthening a comprehensive view of Geography, since this discipline has a strong development in regional studies, geographic information systems, environmental and territorial management, sustainable development and geography education. The AGS offers access to a computer laboratory for undergraduate students and a geographical analysis laboratory for graduate students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The AGS receives international students who take courses on a semester basis. Undergraduate students from all over Europe, Asia, Canada and the United States come to the University of La Serena and take courses such as Geography of Latin America and Globalization and World Economics. Also, graduate students visit the AGS and take independent studies and field work for their thesis in the region. Normally, both undergraduate and graduate students attend academic activities in the AGS at ULS as part of their programs in their native universities. For this purpose, any foreign student or group

of students and instructors could visit and arrange a special program in the AGS, once they have contacted the International Office at ULS. Admission requirements are based on regular programs conducted in their native countries. Financial assistance is offered to reduce cost of housing and meals.

FACULTY:

Fabian Araya, Doctoral Degree, Universidad de Cuyo, Mendoza, Argentina, 2006, Associate Professor — Geography Education, Curriculum and Assessment, Theory and Method in Geography, Pedagogy and K-12 development

Enrique Novoa, Mg. Universidad de Santiago, Chile, 1996, Associate Professor — Physical Geography, Geomorphology and Hydrology, Land Development, Environmental and Hazards, Geographic Information System

Carmen Varela, Mg. Universidad de Santiago, Chile, 1986, Lecturer — Urban Geography, Territorial Planning, Rural Development.

Guido Veliz, Ph.D. Laval University, Montreal, Canada, 1994, Professor — Urban Geography, History and Philosophy of Geography, Regional Geography and Land Use. Geography of Chile

UNIVERSIDAD DE SANTIAGO DE CHILE

DEPARTAMENTO DE INGENIERÍA GEOGRÁFICA

FECHA DE FUNDACIÓN: Enero 17 de 1958

PROGRAMAS DE ESTUDIO: Licenciatura en Ciencias de la Ingeniería, Título profesional Ingeniero Civil en Geografía

SITIO WEB: <http://www.digeo.cl>

PARA PEDIR UN CATÁLOGO Y MÁS INFORMACIONES, FAVOR DEBE ESCRIBIR A: Marcos Medina Tapia, Santiago de Chile, Teléfonos: (56 2) 27182206, (56 2) 27182230, Email: ingenieriacivil.geografica@usach.cl, marcos.medina@usach.cl.

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN:

Con fecha 31 de Diciembre de 1982 se crea la carrera de Ingeniería Civil en la especialidad de Geografía conducente al grado académico de Licenciado en Ciencias de la Ingeniería y título profesional de Ingeniero Civil Geógrafo, mediante decreto N° 1167/1982. La Unidad Académica ofrece tres programas de postgrado. El Magister en Ambiente en cualquiera de sus dos líneas de investigación: Gestión y Planificación Ambiental del Territorio y Gestión de Recursos Hídricos. El Magister en Medio Ambiente con mención en Gestión y Ordenamiento Ambiental. Y, por último, el Magister en Geomática. La infraestructura de laboratorios cuenta con instalaciones y equipos que se utilizan para impartir la enseñanza práctica en las asignaturas que lo requieran y son de uso exclusivo de la Unidad. A continuación, se presenta una descripción de los laboratorios de la Unidad. La Unidad de Instrumentos Topográficos incluye instrumental topográfico y geodésico. La Estación Meteorológica permite la medición, almacenamiento, seguimiento y visualización de variables meteorológicas. El Laboratorio de Procesamiento de Datos Topográficos y Geodésicos permite el procesamiento de datos topográficos y geodésicos. Laboratorio de Geomorfología y Fotointerpretación posibilita la realización de identificaciones e interpretaciones de elementos territoriales geomorfológicos de transformación dinámica. Laboratorio de Fotogrametría cuenta con equipamiento de Fotogrametría analógica y digital que incorpora a este laboratorio en los procesos productivos de la Geomática. El Laboratorio de Cartografía Digital permite la generación de bases cartográficas digitales confiables métricamente. Laboratorio de Sistemas de Información Geográfica está dotado de programas que permiten el trabajo de geoprocesamiento de la información territorial.

Laboratorio de Teledetección permite el procesamiento y explotación de la información contenida en imágenes satelitales. El Laboratorio de Modelamiento Ambiental y Territorial está orientado a la modelación y simulación matemática de sistemas territoriales y procesos ambientales. Laboratorio de Procesos Ambientales está capacitado para la realización de tareas de caracterización y diseño de procesos de tratamiento de residuos. Laboratorio de Bioprocesos Ambientales apoya a la docencia de bioprocesos ambientales. Laboratorio de Química Ambiental con insumos para el trabajo de laboratorio docente e investigación relacionada con la Química aplicada a problemas ambientales. Laboratorio de Ordenamiento Territorial está diseñado para promover el desarrollo de planes de ordenamiento territorial.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: El principal objetivo de la Carrera de Ingeniería Civil en Geografía es formar profesionales en el área de la Ingeniería Civil, que respondan a las necesidades actuales y futuras que imponen las actividades humanas y productivas sobre el territorio, las que se materializan en proyectos de ingeniería y/o planificación y ordenamiento territorial, dando solución a los impactos ambientales, económicos y sociales que éstas generan, apuntando con ello a un desarrollo sustentable. Por lo anterior, el rol del Ingeniero Civil en Geografía es analizar, evaluar y proponer soluciones a los impactos generados por la localización de actividades humanas (asentamientos y proyectos de actividades productivas) en los aspectos ambientales, económicos y sociales del territorio, siendo capaz de participar en el desarrollo de políticas públicas en el ámbito del territorio. Por sus conocimientos formativos y su visión integral de la realidad, el Ingeniero Civil en Geografía está llamado a trabajar en equipos de profesionales de carácter interdisciplinario en la solución de problemas territoriales. Tiene su campo ocupacional en las instituciones públicas y privadas, relacionadas con planificación, medio ambiente, proyectos de ingeniería, aprovechamiento de recursos naturales, mediciones geodésicas y fotogramétricas, estudios demográficos, asentamientos humanos, entre otros. El Plan Académico de 2012 se formuló a partir del Perfil de Egreso vigente desde el año 2009, el cual es consistente con el Modelo Educativo Institucional y contempla un total de 66 asignaturas de ciencias básicas, ciencias de la ingeniería, ciencias de la especialidad, y en ciencias humanas y sociales. El proceso de admisión es a través del sistema nacional de selección universitaria, siendo necesario rendir la Prueba de Selección Universitaria (P.S.U.). El puntaje ponderado de ingreso está compuesto de Ranking (40%), Notas Enseñanza Media (10%), Prueba de Lenguaje (10%), Prueba de Matemáticas (30%) y Prueba de Ciencias (10%). Respecto a ayuda financiera, la Universidad cuenta con becas y créditos propios del sistema universitario nacional.

PROFESORADO:

Araya Bermúdez Mario, Doctor en Geografía
Borcosque Díaz José Luis, Doctor en Geografía
Caverlotti Marcelo, Doctor © en Ciencias de la Ingeniería
Corvalán Fernando, Doctor en Ingeniería de Procesos
Díaz Bambach Miguel, Master en Ciencias Aplicadas
Espinoza Ramírez Juan Carlos, Magíster en Asentamientos Humanos y Medio Ambiente
Herrera González Víctor, Magíster en Asentamientos Humanos y Medio Ambiente
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Mauro Álvaro, Magíster en Geografía
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Quintanilla Pérez Víctor, Doctor en Ciencias Naturales
Yañez Romo Verónica, Magíster en Ciencia Regional

COLOMBIA

ASOCIACIÓN COLOMBIANA DE GEÓGRAFOS, ACOGE

TIPO DE INSTITUCION: Sociedad profesional/asociación Científica

ACTIVIDAD PRINCIPAL DE LA ASOCIACION:

Promoción profesional de la geografía

FECHA DE FUNDACION: 21 de Junio de 1967

REVISTA: e-Boletín Acoge

SITIO WEB: <http://www.acoge.org>

PARA MAS INFORMACION CONTACTAR: LUIS CARLOS JIMENEZ REYES, Presidente Del Consejo Directivo, Carrera 57-B Bis 128-60, Bogotá, Colombia, Telefono: 57-3144534052, lcjimenezre@unal.edu.co

MISION DE LA ASOCIACION: ACOGE propende por el desarrollo de la geografía como una disciplina científica y como profesión de origen universitario, en general, y en particular por el avance académico de sus afiliados en Colombia.

ESTRUCTURA Y ORGANIZACIÓN: De acuerdo con sus Estatutos, ACOGE es una entidad de derecho público privado de Colombia, sin ánimo de lucro, regida por la Asamblea General de afiliados activos, el Consejo Directivo y la Dirección Ejecutiva. Administrativamente, el manejo de la organización corresponde al Director Ejecutivo, quien es elegido por la Asamblea General para ejercicios de tres (3) años. Tanto la Dirección Ejecutiva, como el Consejo Directivo, son apoyados por comités especializados en diversas gestiones.

FINES: (1) Propender por el desarrollo académico, científico y profesional de la disciplina geográfica; (2) Contribuir a la difusión y discusión de los problemas de los que se ocupa la comunidad geográfica global; (3) Procurar el desarrollo y progreso profesional y científico de sus afiliados; (4) Apoyar las instituciones colombianas en las que se enseña la geografía como carrera profesional en los niveles superior y posgraduado; y, en fin (5) Procurar que la geografía como carrera profesional y como comunidad científica contribuya al desarrollo general de Colombia.

PROGRAMA CIENTÍFICO-TÉCNICO Se desarrolla en cooperación con las universidades que tienen Facultades o Departamentos de Geografía por medio de Grupos de Investigación especializados. **PROGRAMA DE FOMENTO DE LA GEOGRAFÍA** Se cumple por medio del patrocinio cada dos años del Congreso Colombiano de Geografía, que se ha reunido ya durante 19 ocasiones; así como de la Convención Nacional de Educación Geográfica.

MEMBRECIA: Pueden ingresar como afiliados los profesionales residentes en Colombia interesados en los fines para los cuales fue creada la Asociación. Hay cuatro tipos de miembros: (1) Regulares; (2) Asociados; (3) Estudiantes de geografía; (4) Institucionales. La categoría de miembros regulares está reservada a geógrafos profesionales, ingenieros geógrafos y licenciados en ciencias sociales.

EVENTOS ANUALES: Alternadamente se desarrollan cada dos años, el Congreso Colombiano de Geografía; y la Convención Nacional de Educación Geográfica.

GRUPO DE INVESTIGACIÓN INTERINSTITUCIONAL GEOPAIDEIA

TIPO DE INSTITUCION: Sociedad profesional/asociación Científica

ACTIVIDAD PRINCIPAL DE LA ASOCIACION: Educación

FECHA DE FUNDACION: 1995

SITIO WEB: www.geopaideia.com

PARA MAS INFORMACION CONTACTAR: Alexander Cely Rodríguez, Representante legal de la asociación, Calle 61 No. 5 - 61 Apt 401 Bogotá – Colombia, Telefono: 2 480648, Fax: 2 841981, alexcelly@gmail.com, numola1969@hotmail.com

MISION DEL GRUPO: GEOPAIDEIA nace como un grupo de investigación integrado por profesores y egresados de la Maestría en Educación con énfasis en Docencia de la Geografía de la Universidad Pedagógica Nacional (UPN). En la actualidad es un grupo de carácter interinstitucional entre la UPN y la Universidad Distrital “Francisco José de Caldas” (UDFJC), clasificado en Colciencias en categoría B, reuniendo profesores de diversas áreas de las Ciencias Sociales, interesados en la reflexión del espacio desde una perspectiva multidisciplinar con miras a aportar en la comprensión contemporánea de la geografía y su relación con el mundo cotidiano, al igual que generar propuestas pedagógicas que cualifiquen su enseñanza dentro de los procesos educativos.

ESTRUCTURA Y ORGANIZACIÓN: El grupo Geopaideia ha ido construyendo una amplia experiencia, producto del trabajo investigativo y docente sobre líneas tales como: Educación geográfica, Didáctica de la geografía, Espacio, territorio y ciudad, Geografía y literatura, Geografía y filosofía, Geografía y cultura, que posibilitan el reconocimiento de diversos procesos de conceptualización, organización y significación espacial. El grupo tiene como objeto social la gestión y promoción de la investigación y el desarrollo científico, la formulación y ejecución de proyectos de investigación; el desarrollo de procesos de formación en ciencia, tecnología e investigación; bien sea a nivel de eventos, prácticas, pasantías, trabajos de grado (monografías y tesis). La oferta de proyectos de capacitación a nivel local, regional, nacional e internacional. La producción de textos y software de divulgación científica; el desarrollo y fomento a la investigación en el ámbito educativo formal y no formal, tanto público como privado, con proyección social y de apoyo a la educación del país.

FINES: Los fines específicos del Grupo Geopaideia son: a. Consolidar un equipo de trabajo interdisciplinario, que genere procesos e impactos en los sujetos de las comunidades sobre las que orienta su quehacer b. Gestionar de común acuerdo con Entidades Nacionales o Extranjeras recursos o programas destinados a la ejecución de proyectos del Grupo Geopaideia c. Realizar la gestión de proyectos de investigación que busquen determinar posibles soluciones a los problemas educativos en las comunidades de aprendizaje. d. Realizar la promoción de proyectos y resultados de investigación mediante diversos tipos de actividades e. Generar procesos de formación a nivel de investigación en diversos ámbitos y empleando distintas metodologías, técnicas y estrategias f. Contribuir con una cultura de la investigación en los ámbitos de formación y educación, tanto a nivel técnico, tecnológico y profesional a escala local, regional, nacional e internacional. g. Realizar la gestión y promoción de proyectos y eventos de investigación h. Generar espacios de formación en ciencia, tecnología e investigación, mediante conferencias, seminarios, talleres, cursos libres, simposios, congresos, foros, conversatorios, salidas de campo y demás eventos relacionados i. Gestionar, generar, implementar y adoptar planes, programas,

proyectos y modelos de formación y cualificación j. Realizar ofertas de formación y capacitación a través de consultorías, asesorías, cursos de extensión (presenciales y/o virtuales) k. La producción, edición y divulgación de textos académicos y científicos por medio de artículos, libros, revistas, ponencias l. La producción de software de carácter científico y académico m. Asesorar proyectos comunitarios en zonas urbanas y/o rurales n. Aplicar conocimientos científicos y académicos con diversas comunidades para mejorar su calidad de vida

PROGRAMAS QUE SE OFRECEN: Dado el carácter que tiene la Asociación esta está en capacidad de: a. Desarrollar proyectos de investigación que aporten en la educación geográfica y en procesos territoriales que construyen los ciudadanos. b. Realizar actividades de formación y cualificación presenciales y/o virtuales, que comprenden cursos básicos, conferencias, talleres, seminarios, entre otras. c. Preparar, organizar y realizar talleres, foros de divulgación, conferencias, seminarios, conversatorios, cursos, muestras, encuentros. d. Crear redes de información y propiciar la relación con otras entidades similares ya sean nacionales o internacionales. e. Procurar el intercambio de publicaciones especializadas y productos elaborados por la Asociación. f. Apoyar e impulsar la edición de material necesario y propender por su difusión a través de folletos, manuales o cualquier otro medio que proporcione el conocimiento de los ejes temáticos relacionados con su objeto social a las personas, entidades o países interesados.

MIEMBROS: La Asociación es una Entidad de derecho civil sin ánimo de lucro, creada en Bogotá Distrito Capital por sus constituyentes, todos ellos domiciliados en Bogotá D.C., quienes reunidos decidieron organizar dicha ASOCIACIÓN de acuerdo a los dispuesto en la Constitución Nacional. La Asociación en la actualidad la Asociación cuenta 8 miembros.

PUBLICACIONES RECIENTES:

Moreno, N. Rodríguez, L. Sánchez J. (2011) *La salida de campo...se hace escuela al andar. Grupo de investigación Geopaideia. Editorial Geopaideia. Libro Virtual disponible en www.geopaideia.com enlace publicaciones.*

Cely A. & Moreno N. (2011) *Ciudades leídas, ciudades contadas. La ciudad latinoamericana como escenario didáctico para la enseñanza de la geografía. Bogotá D.C: Universidad Distrital Francisco José de Caldas.*

Moreno, N. (2011) *Re pensar la enseñanza de la ciudad. Alternativa para la formación ciudadana. En Producao do conhecimento e pesquisa no ensino da geografia. Goiania: Universidade Católica de Goiás y por la Universidade Federal de Goiás.*

Moreno, N. Cely A. Hurtado M. Rodríguez L. Sánchez J. (2011) *¿Qué función debe cumplir la enseñanza de las ciencias sociales en la escuela? Bogotá: Geopaideia Ediciones – Vicens Vives.*

Moreno, N. & Hurtado M. (2010) *Itinerarios Geográficos en la escuela. Lecturas desde la virtualidad. Grupo de investigación Geopaideia. Editorial Geopaideia. Libro Virtual disponible en www.geopaideia.com enlace publicaciones.*

http://www.geopaideia.com/?page_id=217

<http://www.anekumene.com/index.php/revista>

RAZÓN CARTOGRÁFICA, RED DE HISTORIA DE LAS GEOGRAFÍAS Y CARTOGRAFÍAS DE COLOMBIA

TIPO DE INSTITUCION: Sociedad profesional/asociación científica

ACTIVIDAD PRINCIPAL DE LA ASOCIACION:

Comunicación/networking

FECHA DE FUNDACION: Agosto de 2007

SITIO WEB: <http://razoncartografica.com/>

PARA MAS INFORMACION CONTACTAR: SEBASTIAN DIAZ ANGEL, COORDINADOR, Carrera 18 No 33- 46 (apto 303), Barrio Teusaquillo, Bogotá, Colombia, Telefono: (+571)3404244, razoncartografica@gmail.com

MISSION: Razón Cartográfica busca articular, promover y difundir las investigaciones relacionadas con la historia de la geografía y la cartografía en Colombia e Ibero/Latinoamérica. También le apuesta a la interlocución entre historia, geografía, cartografía y el pensamiento crítico. Nuestro objetivo principal es articular esfuerzos de todas las personas e instituciones potencialmente interesadas en la protección, la difusión y la investigación del patrimonio cartográfico, y de las colecciones y archivos documentales -privados o públicos- relacionados con geografía y cartografía en Colombia. También buscamos contribuir al desarrollo de una mirada crítica e histórica sobre conocimientos geográficos, concepciones espaciales, cartografías y representaciones del territorio; así como sobre instituciones, disciplinas, racionalidades, prácticas y personas involucradas en la producción, la codificación, el ordenamiento del espacio y la circulación y consumo de conocimientos e imaginarios geográficos y cartográficos.

ESTRUCTURA Y ORGANIZACIÓN: Esta constituido por: un Comité Coordinador, un Coordinador, un Administrador y editor del sitio web, un Directorio de Investigadores y Subscriptores del sitio web. El Comité Coordinador es quien guía las estrategias del proyecto. El Coordinador es el responsable del cumplimiento de las estrategias del proyecto. El Administrador y editor del sitio web es el encargado de mantener actualizado el sitio web (en la actualidad es el coordinador del proyecto). El Directorio de Investigadores son las personas que voluntariamente apoyan el proyecto como investigadores asociados. Los subscriptores del sitio web administran su relación con el proyecto.

FINES: Razón Cartográfica (RC) es una red informal, privada, autónoma y sin ánimo de lucro, integrada voluntariamente por personas naturales que comparten sus principios y objetivos. Su propósito es la articulación, la vinculación, la interlocución y el trabajo colaborativo en red para promover: 1. “la investigación, la publicación y la difusión de la historia de la cartografía, de la cartografía crítica, de la geografía histórica, de la historia de la geografía y del pensamiento espacial en ciencias sociales en Colombia, iberoamérica y el mundo”, 2. “la protección y la difusión del patrimonio cartográfico y de las colecciones y archivos de geografía y cartografía en Colombia, iberoamérica y el mundo”, 3. “el fortalecimiento del estudio, la discusión y la democratización del conocimiento sobre historia, geografía, cartografía y áreas afines en Colombia”, 4. “el desarrollo de una mirada crítica e histórica sobre conocimientos geográficos, concepciones espaciales, cartografías y representaciones del territorio; así como sobre instituciones, disciplinas, racionalidades, prácticas y personas involucradas en la codificación, el ordenamiento del espacio y la circulación y consumo de conocimientos e imaginarios geográficos”, 5. “el diálogo y el debate entre todos aquellos interesados por el desarrollo de los conocimientos

geográficos, y el uso de las herramientas de análisis y representación del espacio en las ciencias sociales, las artes y las humanidades” 6. “la cooperación, la alianza y el intercambio de conocimiento e información con entidades y proyectos afines a nivel local, nacional, e internacional.” Para desarrollar sus objetivos Razón Cartográfica (RC) ha establecido las siguientes estrategias: Interesar, articular y vincular permanente estudiantes, profesionales, proyectos y entidades afines. Colaborar con estudiantes, profesionales, proyectos y entidades vinculadas, aliados y afines. Explotar los TICs para aprovechar las oportunidades de interacción instantánea, horizontal y multimedial de la cultura digital para la visibilización y el desarrollo de los objetivos de RC. Archivar, comunicar y difundir permanente información y contenidos actualizados de interés para investigadores, estudiantes, profesionales, proyectos, entidades y público en general, sobre temas afines a RC. Gestionar y apoyar la construcción y desarrollo de escenarios y procesos locales de investigación, discusión, difusión y publicación de temas afines a RC. Organizar, co-organizar y participar en eventos académicos o de difusión nacionales e internacionales, y en toda actividad acorde a los fines de RC.

PROGRAMAS QUE SE OFRECEN: Eventos y actividades académicos. En asocio con instituciones locales, Razón Cartográfica apoya eventos y actividades de promoción de la mirada social y cultural de la historia de la cartografía, de difusión de la memoria cartográfica de Colombia y de apropiación social y crítica de los conocimientos geográficos. Mapoteca Digital: Razón Cartográfica apoya la conformación de una mapoteca digital colombiana, en la que se cataloguen y digitalicen las colecciones cartográficas de archivos, bibliotecas y universidades del país (ya sean de carácter públicas o privadas), como plataforma para la investigación, la difusión y la apropiación social de la memoria cartográfica.

UNIVERSITY OF CORDOBA, COLOMBIA

DEPARTAMENTO DE GEOGRAFÍA Y MEDIO AMBIENTE

FECHA DE FUNDACION: Departamento de Geografía:

Julio 10 de 1998 - Universidad de Córdoba: 1964

PROGRAMAS: Licenciatura, Maestría

JEFA DEL DEPARTAMENTO: Doris Villalba-León

CONTACTO PARA PROGRAMA DE PREGRADO:

Doris Villalba-León, dvillalba@correo.unicordoba.edu.co

LICENCIATURAS OTORGADAS ANUALMENTE: 18

CONTACTO PARA PROGRAMA DE POSGRADO: Jairo

Durango-Vertel, jairodurangovertel@gmail.com

POSGRADOS OTORGADOS ANUALMENTE: 2

CENTROS DE INVESTIGACION: Instituto de

Investigaciones Geográficas y Ambientales del Caribe (GeoCaribe)

SITIO WEB: <http://www.geo-unicordoba.info>

URL DE PROGRAMA EN LINEA: <http://www.geo-unicordoba.info> y <http://www.geocaribe.org>

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Doris Villalba-León, Jefa del Departamento, Montería, Departamento de Córdoba, Colombia, Teléfono: 57-4-7818039, deptogeografia@unicordoba.edu.co

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: La geografía es una disciplina antiquísima y a la vez muy moderna. Las más remotas manifestaciones del pensamiento registradas por escrito dan prioridad a la innata curiosidad del hombre sobre su entorno. Por otra parte, el geógrafo de hoy utiliza modernas tecnologías de observación y análisis para estudiar los fenómenos que ocurren en la

superficie terrestre, en términos de su localización, interacción y otros atributos espaciales, al tiempo que participa de las corrientes filosóficas y metodológicas que orientan el progreso científico general. El Departamento de Geografía y Medio Ambiente de la Universidad de Córdoba ofrece dos niveles de estudio sistemático, el universitario superior (pregrado) y la maestría, a través de los cuales forma profesionales capacitados para manejar técnica y científicamente las tareas disciplinares propias de un geógrafo. Se ha creado también el Instituto de Investigaciones Geográficas y Ambientales del Caribe (GeoCaribe), cuyas funciones se orientan a satisfacer las necesidades de investigación y extensión geográficas en la región caribeña.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: El ingreso a la carrera de geografía requiere la acreditación del título de bachiller y haber alcanzado en las pruebas del Ministerio de Educación los niveles que la Universidad establece para la admisión general. En el Programa de Pregrado se brinda al estudiante una formación equilibrada entre los componentes Teórico-Metodológico, Técnico-Instrumental, áreas Geografía Física y Humana, con cursos de apoyo que complementan la formación integral, distribuidos en 10 semestres académicos de estudio. El Programa de Maestría requiere acreditar un título de geógrafo, licenciado en ciencias sociales u otro de áreas afines a la geografía. Se requieren cuatro semestres de estudio y la investigación y sustentación de una tesis. La ayuda financiera que requieran los estudiantes la pueden gestionar a través del Ictex, una agencia gubernamental especializada en becas y préstamos educativos.

PROFESORADO:

Jairo Manuel Durango Vertel: Licenciado en ciencias sociales, Especialista en SIG y sensores remotos, M.Sc. en geografía, estudiante de doctorado en geografía

Doris Alicia Villalba León: Antropóloga, Especialista en gestión y desarrollo comunitario, Maestría en gobierno municipal, M.Sc. en geografía

Doris Mejía Ávila: Ingeniera forestal, Especialista en SIG, estudiante de doctorado en geografía

Rubén Darío Godoy Gutiérrez: Licenciado en ciencias sociales, M.Sc. en geografía

Doris Helena Serrano Amaya: Agróloga, Especialista en SIG, Maestría en geomática

Edgar Rafael Manotas Olascoaga: Ingeniero agrónomo, M.Sc. en geografía

El Departamento también cuenta ocasionalmente con la colaboración de profesores visitantes, entre quienes se cuenta especialmente a: Héctor F. Rucínque, Ph.D. y M.Sc. (MSU y Wisconsin-Madison) y Ovidio R. Toro, M.A. (Iowa). Actualmente están vinculados como profesores ocasionales los siguientes exalumnos de la maestría: Rosana Garnica Berrocal, Wilson Bayardo Castro, Arnulfo Manuel Gómez Ramos, Teonila Idad Aguilar Jiménez, Oscar Antonio Puerta Avilés. Otros catedráticos: Alexis Carbone Mendoza, Hugo Cadena Cepeda, Kelly Rosa Oviedo Mercado y Maria Isabel Toro.

Título de Magister (M.Sc.) y tesis 2010-2011:

Manotas-Olascoaga, Edgar Rafael: "Las inundaciones en el municipio de Montería. Un riesgo percibido por sus habitantes en la ocupación del espacio ribereño del Río Sinú". (Dr. Héctor F. Rucínque, asesor académico, 2010)

Zapata-Salcedo, Jorge Luis: "Espacios de consumo en la ciudad de Montería, Colombia: Una aproximación desde la geografía cultural". (Dr. Héctor F. Rucínque, asesor académico, 2011)

UNIVERSIDAD DE LOS ANDES, BOGOTÁ

DEPARTAMENTO DE HISTORIA

FECHA DE FUNDACION: 1948

PROGRAMAS DE ESTUDIO: Maestría

CONTACTO PARA PROGRAMA DE POSGRADO:

Catalina Merchán Salazar, maggeo@uniandes.edu.co

POSGRADOS OTORGADOS ANUALMENTE: 4

SITIO WEB: <http://historia.uniandes.edu.co/>

PARA PEDIR UN CATÁLOGO Y MÁS INFORMACIONES, FAVOR DE ESCRIBIR A: Coordinadora Académica: Catalina Merchán Salazar, Numero de teléfono: 3394949 ext. 4816, maggeo@uniandes.edu.co

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: La Maestría en Geografía preparará a profesionales de variadas disciplinas para realizar investigaciones en geografía y para que incorporen los aportes de este campo de conocimiento a su formación y su ejercicio profesional. La Maestría en Geografía está organizada alrededor de dos ejes que definen a esta polifacética área del conocimiento: 1) La relación entre las sociedades y el medio ambiente, y 2) El espacio como categoría fundamental para entender los fenómenos sociales. El primer eje ha definido el quehacer geográfico desde sus inicios y el segundo se ha constituido en las últimas décadas en un aporte imprescindible de la geografía a las ciencias sociales. Sobre estas bases, la Maestría se caracteriza por sus estrechos vínculos con las ciencias sociales, especialmente con la historia, sin perder de vista su relación con la geografía física. Así, dotará a los estudiantes de las herramientas teóricas y metodológicas que caracterizan hoy a la disciplina y le permiten un diálogo permanente con otras áreas del conocimiento. La Maestría en Geografía busca contribuir al actual crecimiento de esta disciplina en Colombia, que a pesar de contar con una larga tradición, sólo hasta hace poco más de una década ha tenido un avance académico significativo con la creación de diversos programas de formación de pregrado y posgrado. También pretende nutrirse del gran dinamismo actual de la geografía humana y cultural a nivel internacional para contribuir al conocimiento de la realidad, principalmente de nuestro país, pero también de otros lugares. De este modo formará investigadores que hagan evidente la importancia del espacio y el entorno natural en el análisis social. De igual forma incentivará la investigación y divulgación de los nuevos conocimientos obtenidos, con el fin de contribuir a mejorar la situación social del país.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA:

Los admitidos deberán seguir un plan de estudios de tres semestres, cada uno con tres asignaturas de cuatro créditos, para un total 36 créditos. Las materias se dividen en tres grandes áreas: Área de Formación Básica, Área de Seminarios y Área de Práctica de Investigación. La primera está conformada por cuatro materias (sociedad y naturaleza, espacio y sociedad, geografía física y taller de cartografía) que proporcionarán a los estudiantes los conocimientos temáticos y teóricos básicos para su desempeño en geografía. La segunda está conformada por tres seminarios electivos, que le permitirán al estudiante profundizar en su área de interés, y la tercera por el desarrollo del trabajo de grado.

PROFESORADO:

Guhl, Andrés, Ph.D. en Geografía de University of Florida — transformaciones del paisaje, desarrollo, ecología del paisaje, ecología política y geografía ambiental

Herrera, Marta, Ph.D. en Geografía de Syracuse University — ordenamiento social y espacial

Leal, Claudia, Ph.D. en Geografía de University of California, Berkeley — historia ambiental, ecología política

Sánchez, Luis, Ph.D. en Geografía de Florida State University — geografía política y cultural, las geografías de la construcción de la identidad, migración, desarrollo, globalización

Van Ausdal, Shawn, Ph.D. en Geografía de University of California, Berkeley — naturaleza y sociedad, historia del desarrollo, y economía política de la comida

UNIVERSIDAD DEL VALLE

DEPARTAMENTO DE GEOGRAFÍA

FECHA DE FUNDACION: Diciembre 3 de 1992

PROGRAMAS DE ESTUDIO: Grado asociado/técnico,

Licenciatura

SITIO WEB: <http://geografia.univalle.edu.co/>

PARA PEDIR UN CATÁLOGO Y MÁS INFORMACIONES, FAVOR DE ESCRIBIR A: Andrés Enrique Bautista, Santiago de Cali, Colombia, Teléfono: (57-2) 3212189, Fax: (57-2) 3303343 – 3334909, dgeograf@univalle.edu.co

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: El Departamento fue creado según la Resolución No 135 de diciembre 3 de 1992, del Consejo Superior de la Universidad. Su estructura se basa en la organización y funcionamiento de cuatro cátedras, las cuales responden a áreas específicas del conocimiento geográfico, lo mismo que a problemas concretos de investigación que han venido siendo estudiados por los profesores de la Unidad. Las Cátedras son: Geografía Física - Medio Ambiente; Geografía Económica - Social; Geografía Política - Planeamiento Territorial y Cartografía. Los profesores que forman parte de la Unidad Académica han presentado sus proyectos de investigación en áreas específicas de trabajo, algunos han sido aprobados y otros están en pleno proceso de evaluación; sus líneas se enmarcan dentro de lo estipulado para cada cátedra y las investigaciones en general comprenden aspectos relacionados con: Geografía Rural y Económica, Ordenamiento Territorial, Geografía Aplicada - área urbana y Geografía Física. Nuestras actividades nos han permitido contar con una revista de divulgación: La Revista GEO, y tenemos en preparación la edición de un segundo número. De otro lado, contribuye a la presentación de la propuesta de realizar la Especialización en Geografía, el hecho de que el Departamento es la única Unidad Académica de Geografía que hay en el Valle del Cauca. Su creación específica obedeció al interés de abrir el campo de esta disciplina en el contexto universitario en igualdad de condiciones con los otros campos del saber. La Unidad ha venido cubriendo los distintos planes desde antes de su creación, cuando entonces funcionaba como una sección de Geografía en el Departamento de Historia. En la Universidad existen en el momento otras Unidades Académicas y de investigación que tienen de alguna manera afinidades con el que hacer geográfico, y que cuentan con una infraestructura técnica y tradición investigativa, las cuales servirán de apoyo a la Especialización. Estas son: El Instituto de Abastecimiento y Remoción de Aguas, - CINARA; El Centro de Estudios Regionales, - REGION; El Observatorio Sismológico del Sur-occidente, - OSSO; El Instituto de Estudios del Pacífico y La Facultad de Ingenierías. Además en Cali hay instituciones muy ligadas a los estudios geográficos que serán de gran importancia, no sólo para lograr obtener una mayor información, sino para poder realizar algunas actividades de campo, como son entre otras: La CVC, El DAGMA, El IGAC e INGEOMINAS.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA

FINANCIERA: Requisitos de Admisión y Selección: Puntaje del ICES del año 2006 en adelante: Historia 45, Lenguaje 45, Geografía 45, Biología 35; Matemáticas 40; y Filosofía 35. En relación con

transferencias y traslados, los estudiantes deben cumplir con los siguientes requisitos: Provenir de un programa académico afín (Geología, Licenciatura en Ciencias Sociales, Licenciatura en Geografía, Licenciatura en Historia, Historia, Ingeniería Geográfica, Ingeniería Topográfica, Economía, Antropología, Sociología, entre otros) y permitir mediante la homologación de asignaturas la ubicación por lo menos, en segundo semestre. Fecha de Iniciación de Actividades: Enero 2003 Creado mediante Resolución 004 de Febrero 28 de 2002, del Consejo Superior de la Universidad del Valle. Aprobado por: Resolución del Consejo Académico No. 014 del 24 de Enero de 2002 y Resolución del Consejo Superior No. 004 del 28 de febrero de 2002. Registro SNIES: 16018 del Ministerio de Educación Nacional (Renovación por 7 años a partir de la Resolución 6316 del 23 de octubre de 2007) Título que se expide: Geógrafo Duración: 5 Años Periodicidad de la Admisión: Anual Modalidad: Diurna (lunes a viernes de 7:00-10:00 asignaturas propias y de 10:00-13:00 Electivas profesionales o complementarias)

PROFESORADO:

Elkin de Jesús Salcedo, Dr. en Geociencias

Jaime Vásquez Sánchez, Dr. Geografía, Económica-Social

Rodolfo Espinosa López, Magíster en Geografía

Javier E. Thomas Bohórquez, Magíster en Geografía

Cecilia Orozco Cañas, Esp. en Administración pública, Esp. en Políticas Públicas

Pedro Martín Martínez Toro, Magíster en Política Territorial y Urbanística

Luis Marino Santana Rodríguez, Doctor en Cartografía, Sistemas de Información Geográfica y Teledetección

Oscar Buitrago Bermúdez, Magíster en Geografía con énfasis en Ordenamiento Territorial

Zaida Liz Patiño Gómez, Doctora en Ciencias Sociales Área de profundización Sociedad y Educación.

Ramón Serna, Magíster en Geografía con énfasis en Ordenamiento Territorial Contratistas

Julio César Rubio Candidato a Magíster en Educación Popular y Desarrollo Comunitario

Hernando Uribe Castro, Magíster en Sociología, Universidad del Valle

Carlos González Rodríguez Ingeniero Forestal, Cartografía general
Ramiro Bonilla Sandoval, Msc. en Planificación Urbana

UNIVERSIDAD EXTERNADO DE COLOMBIA

PROGRAMA DE GEOGRAFÍA

FECHA DE FUNDACION: 2005

ESPECIALIZACIÓN EN GEOGRAFÍA POLÍTICA Y GEOPOLÍTICA DEL MUNDO

ACTUAL FUNDADA EN: 2010

TÍTULOS OFRECIDOS: Pregrado, Especialización

GRADOS CONCEDIDOS: Ninguno

ESTUDIANTES EN RESIDENCIA: 12 Pregrado, 5 Especialización

NO EN RESIDENCIA: 1 Pregrado

JEFE DE PROGRAMA: Philippe Chenut (e.)

PARA PEDIR UN CATÁLOGO Y MÁS INFORMACIONES,

FAVOR DE ESCRIBIR A: Sr. Philippe Chenut, Director (e.)

Programa de Geografía, Facultad de Ciencias Humanas, Universidad Externado de Colombia, Calle 12 No. 1-17 Este Bogotá Colombia Teléfono (57 1) 341-990. Fax (57 1) (57 1) 341- 8158. E-Mail: geografia@uexternado.edu.co

Internet: http://portal.uexternado.edu.co/irj/portal/anonymous?guest_us er=sociales&NavigationTarget=navurl://e19058adde7c1bca8ac0da720344db6a

PROGRAMAS E INSTALACIONES DE INVESTIGACION: Los objetivos del programa incluyen el estudio de (1) la relaciones entre los actores sociales y su entorno biofísico y social (2) el papel que juegan las relaciones de poder en los procesos de gestión y ordenamiento del territorio (3) el análisis espacial. Los estudiantes del programa desarrollan sus estudios dentro de un enfoque interdisciplinario, con un fuerte énfasis en la investigación. Se pretende que sean capaces de trabajar en equipos formados por diversos profesionales de las ciencias sociales y naturales. Es así como desarrollan sus trabajos de grado en áreas de investigación interdisciplinarias en las que interactúan estudiantes y profesores de diversas disciplinas. Las fortalezas del programa son las siguientes: a) Geografía política e histórica; b) Geografía urbana; c) Epistemología de la geografía; d) Análisis espacial; e) Efectos territoriales de la globalización y las migraciones, f) Geografía agraria

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: El plan de estudios se desarrolla en 10 semestres. Requisitos de admisión: Diploma de educación secundaria de Colombia o equivalente, examen del ICFES, entrevistas Apoyo financiero: becas, monitorías académicas y de investigación; Programa de becas para miembros de minorías étnicas

PROFESORADO:

Camilo Domínguez, Sociólogo — Doctorado en geografía, Sao Paulo, 2004, Docente-Investigador Geografía política e histórica — Estudios amazónicos y del Caribe

Gustavo Montañez, Ingeniero geógrafo, PhD Geografía Universidad de la Florida, 1995, Docente-Investigador — Geografía política y cultural – efectos territoriales de la globalización

Luis Berneth Peña, Geógrafo Doctorando en Geografía Université Rennes2 Docente, Investigador — Geografía urbana – Epistemología de la geografía, análisis espacial

Philippe Chenut, Geógrafo Mgr Medio ambiente y Desarrollo Universidad Nacional de Colombia (Cand.), Docente-Investigador, Ordenamiento ambiental del territorio — análisis espacial

Laura Rincón, Geógrafa Mgr. Economía social Universidad Nacional de General Sarmiento Buenos Aires (Cand.) Docente-Investigadora, Efectos territoriales de las migraciones — Planificación urbano-regional

Bladimir Rodríguez, Geógrafo, Topógrafo, Economía social Universidad Nacional de General Sarmiento Buenos Aires (Cand.) Geografía agraria — Desarrollo local

PROFESORADO ASOCIADO:

Elkin Velásquez, Ingeniero Geólogo – Doctorado en Geografía. U. de Grenoble, Gobernanza territorial — Riesgos naturales y antropicos

Claudia Romero, Ingeniera topógrafa - Mgr. SIG y Teledetección U. de Alcalá — Cartografía, Teledetección, SIG, análisis especial

UNIVERSIDAD NACIONAL DE COLOMBIA

DEPARTMENT OF GEOGRAPHY

DEPARTMENT DATE FOUNDED: 1967

DIRECTOR: José Daniel Pabón Caicedo

UNDERGRADUATE PROGRAM FOUNDED: 1991

COORDINATOR UNDERGRADUATE PROGRAM: Luis Jorge Gracia Dueñas

COORDINATOR GRADUATE PROGRAM: Luis Carlos Jiménez Reyes

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Director del Departamento de Geografía, Carrera 30 45-03,

Universidad Nacional de Colombia; Sede Bogotá, Colombia. Teléfonos (57-1) 3165025 o 3165000 ext. 16321, 16320, Fax (57-1) 3165025. E-mail address: depgeografi_bog@unal.edu.co; postgeo_fchbog@unal.edu.co

The Department of Geography (Human Sciences Faculty, National University of Colombia) has undergraduate and graduate programs (Postgraduate diploma in Spatial Analysis, Master in Geography and Doctorate in Geography) and carries out research programs in geography and related sciences and disciplines.

UNDERGRADUATE PROGRAM

DEGREE OFFERED: Professional Geographer

The graduate program leads to a bachelor degree in Geography and it is oriented towards developing abilities in research as well as skills in methodology and techniques of geographic analysis. The program includes the basic formation in geography and specialized courses in four areas: (1) Human Geography (2) Physical Geography (3) Environmental Geography and (4) Geographical information technologies. The fieldwork plays an important role in both the physical and human courses.

GRADUATE PROGRAM

GRADUATE PROGRAMS FOUNDED: 2008

STUDENTS IN RESIDENCE: 150

The graduate programs develop their activities in the frame of the following research lines: 1) Spatial dynamics and urban and regional studies; 2) Natural and human-induced hazards and risks; 3) Biogeophysical and socioeconomic dimension of global change; 4) Space and territory; 5) Culture and environment.

POSTGRADUATE DIPLOMA IN SPATIAL ANALYSIS

DEGREE OFFERED: Specialist in Spatial Analysis

This postgraduate diploma provides to professionals from different areas the abilities and knowledge to be competent to work on zoning and environmental synthesis and in analysis of urban and regional problems.

MAGISTER PROGRAM

DEGREE OFFERED: M.Sc. in Geography

Magister Program in Geography forms young researchers in geography with the abilities to participate or lead interdisciplinary studies on both man-nature interaction, and spatial analysis issues, especially on the research lines of Department of Geography.

DOCTORAL PROGRAM

DEGREE OFFERED: Doctor in Geography

This graduate program prepares leaders for the research activity in the geographical area of knowledge. This leader is a researcher with the capacity to propose, develop and lead research programs which contribute to improve both the knowledge and the understanding of spatial dynamics involved in the society-nature interaction.

FACULTY:

Alice Amandine Beuf, Doctor in Human, economic and regional Geography, Université Paris Ouest, Nanterre La Défense, 2011. Assistant Professor — Social Geography, Urban Geography, Economic Geography

Susana Barrera L., Ph.D. (c) in Geography (Wilfrid Laurier University - University of Waterloo, Canada, 2004), Associate Professor — Urban Watershed management, Urban Geography, Environmental Geography, and GIS

Jeffer Chaparro M., Doctor in Human Geography (Universidad de Barcelona, 2009), Assistant Professor — Cybergeography, Human Geography, Urban Geography, Geography and Education

Isabel Duque F., Doctor in Human Geography 2008 (Universidad de Barcelona), Associate Professor — Urban Geography, Urban Planning and Management

Juan Manuel Díaz M., Dr. rer. nat. (Justus Liebig Universität - Germany, 1985), Associate Professor — Biogeography, Marine Biology

Luis Jorge Gracia D., M.Sc. in Geography, Escuela de Postgrados en Geografía UPTC/IGAC, 1992, Assistant Professor — Population Geography, Rural Geography

Luis Carlos Jiménez R., Doctor in Geography of Development (Université de Bordeaux 3, 1999), Associate Professor — Urban Geography, Regional Geography, Theory of the Geography, Urban and Regional Planning

Nohra León R., Doctor in Economics Sciences, Universidad Nacional de Colombia, 2003, Associate Professor — Economic Geography, Environmental Studies, Introduction to Geography

John Williams Montoya G., Ph.D. in Geographic Sciences (Université Laval, QC, Canada, 2012), Associate Professor — Urban Geography, Theory of the Geography

José Daniel Pabón C., Ph.D. in Meteorology, Odessa GMI, former USSR, 1987, Associated Professor — Meteorology and Climatology, Climate Variability and Climate Change, Natural Hazards, Environmental Studies

Luis Gabriel Salas S., M.Sc. in Geography, Escuela de Postgrados en Geografía UPTC/IGAC, 2010, Assistant Professor — Political Geography, Human Geography

Willington Siabato V., Doctor (c) in Geographical Engineering (Universidad Politécnica de Madrid, 2009), Assistant Professor — Analysis and Spatial Modeling, Geographic Information Technologies

Gabriel Triana Z., Doctor (c) in Geography (Universidad Nacional de Colombia, 2009), Associate Professor — Analysis and Spatial Modeling, Geographic Information Technologies

Astrid Ulloa C., Ph. D. in Anthropology (University of California-Irvine, 2003), Titular Professor — Cultural Geography, Political Ecology, Gender Geography

Germán Vargas C., Doctor in Earth Sciences (Université Pierre et Marie Curie, Paris VI, Paris, France, 1997), Associate Professor — Geology, Remote Sensing, Natural Hazards

UNIVERSIDAD PEDAGOGICA Y TECNOLOGICA DE COLOMBIA UPTC

DEPARTAMENTO DE CIENCIAS SOCIALES

FECHA DE FUNDACION: 1957

PROGRAMAS DE ESTUDIO: Licenciatura en Ciencias Sociales

SITIO WEB: www.uptc.edu.co

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIR A: Jorge Ruiz, Profesor Asociado, Tunja, Colombia, Telefono: 5787422174, Fax: 5787436206, ciencias.sociales@uptc.edu.co

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN

Competencias Básicas: 1.Capacidad para establecer criterios y procedimientos que le permitan trabajar conjuntamente con la comunidad, en la búsqueda de valores, en la recuperación creativa de la cultura y en la preservación y uso racional del medio ambiente. 2.Orientar una actitud abierta al cambio en lo social, político, pedagógico y cultural, a partir de los sustentos científicos, epistemológicos y filosóficos alcanzados durante la carrera. 3.Análisis crítico de la realidad social y sus conflictos, para plantear alternativas de solución desde un enfoque socio-crítico. 4.Utilización de distintas estrategias y modelos pedagógicos que contribuyen con la enseñanza – aprendizaje de las ciencias sociales. Competencias Generales: 1.Promover la participación democrática de la comunidad en el estudio, tratamiento y solución de sus problemas de tal forma que

lleve a ser reconocido por ella como un líder y gestor comunitario. 2.Coordinar las acciones de educación para la vida democrática, la convivencia y la participación y el fortalecimiento de la sociedad civil. 3.Adoptar un consecuente compromiso ético y moral como profesional de la educación. Competencias Profesionales: 1.Diseñar y ejecutar propuestas para la enseñanza y aprendizaje de las Ciencias Sociales de manera integral y acorde con las necesidades y aspiraciones de la comunidad donde labora. 2. Desempeñar la docencia en Educación Básica y en Educación Media en áreas de Historia, Geografía, Filosofía, Democracia, Medio Ambiente y Derechos Humanos.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA:

Asignaturas créditos área primer semestre competencias comunicativas 4 general geociencias 3 disciplinar y profundización historia antigua y medieval 4 disciplinar y profundización teoría sociológica i 4 disciplinar y profundización universidad y entorno 3 general segundo semestre antropología cultural 4 disciplinar y profundización epistemología de las ciencias sociales 4 disciplinar y profundización historia moderna 4 disciplinar y profundización introducción a la geomática 3 disciplinar y profundización proyecto pedagógico i 4 interdisciplinar tercero semestre economía general 4 disciplinar y profundización geografía humana 3 disciplinar y profundización historia contemporánea 4 disciplinar y profundización proyecto pedagógico ii 4 interdisciplinar socio-humanística i 3 general cuarto semestre electiva interdisciplinar i 4 interdisciplinar proyecto pedagógico iii 4 interdisciplinar teoría sociológica ii 4 disciplinar y profundización teoría y método de la geografía 4 disciplinar y profundización teoría y método de la historia 4 disciplinar y profundización quinto semestre electiva interdisciplinar ii 4 interdisciplinar etnología de américa y colombia 3 disciplinar y profundización geografía política i 4 disciplinar y profundización historia de américa i 4 disciplinar y profundización proyecto pedagógico iv 4 interdisciplinar sexto semestre electiva interdisciplinar iii 4 interdisciplinar geografía política ii 4 disciplinar y profundización historia de américa ii 4 disciplinar y profundización metodología de la investigación 3 disciplinar y profundización tics y ambientes de aprendizaje 3 interdisciplinar septimo semestre arqueología y patrimonio cultural 3 disciplinar y profundización electiva interdisciplinar iv 4 interdisciplinar geografía física de colombia 3 disciplinar y profundización historia de colombia i 3 disciplinar y profundización seminario de investigación i 4 interdisciplinar socio-humanística ii 3 general octavo semestre didáctica de las ciencias sociales i 3 disciplinar y profundización economía colombiana 3 disciplinar y profundización electiva de profundización i 3 disciplinar y profundización geografía humana de colombia 3 disciplinar y profundización historia de colombia ii 3 disciplinar y profundización seminario de investigación ii 4 interdisciplinar noveno semestre didáctica de las ciencias sociales ii 3 disciplinar y profundización electiva de profundización ii 3 disciplinar y profundización etica y política 4 general seminario de investigación iii 3 disciplinar y profundización sociología colombiana 3 disciplinar y profundización decimo semestre práctica pedagógica integral 5 disciplinar

PROFESORADO: 33 profesores

COSTA RICA

UNIVERSIDAD DE COSTA RICA

ESCUELA DE GEOGRAFÍA

FUNDADA EN: 1974

PRIMER PLAN DE ESTUDIOS EN GEOGRAFÍA: 1956

GRADOS QUE OFRECE: Bachillerato, Licenciatura,
Maestría Académica en Geografía y Maestría profesional
en Sistemas de Información y Teledetección (UCR-
UNA)

ESTUDIANTES ACTUALES: Bach., 250; Lic., 50; M.Sc.,
50

TOTAL DE ESTUDIANTES ATENDIDOS EN 2014: 2224

DIRECTORA: Dra. Isabel Avendaño Flores, catedrática

PARA MÁS INFORMACIÓN ESCRIBIR A: *Isabel Avendaño Flores*, Escuela de Geografía, Facultad de Ciencias Sociales, San Pedro de Montes de Oca, San José, Costa Rica. Apdo. 2060. Teléfono (506) 2511 6402, Fax (506) 2234 7246, E-mail: isabel.avendano@ucr.ac.cr, geografia@ucr.ac.cr Internet: <http://www.geografia.fcs.ucr.ac.cr/>

La enseñanza de la Geografía en Costa Rica inició en la Universidad de Costa Rica. Comenzó como la Sección de Geografía e Historia adscrita a la Facultad de Filosofía y Letras en donde se ofrecía la Licenciatura en Geografía e Historia para formar profesores en la enseñanza de la Geografía e Historia en las escuelas y colegios. En ese momento se ofrecían cursos de geografías regionales.

Hacia 1946, la Sección de Geografía e Historia se elevó al rango de Departamento y pasó a formar parte de la nueva Facultad de Ciencias y Letras. Esta nueva Facultad ofrecía la licenciatura en Ciencias y Letras y se indicaba en el Diploma la especialidad según el Departamento: Geografía e Historia, Filosofía, Filología, Lingüística, Literatura, Biología, Química, Física y Matemáticas. Para 1956, el Consejo Universitario aprobó el primer plan de estudios de la carrera de Geografía e Historia. Hacia 1973, el Consejo Universitario aprobó el plan de estudios de Bachillerato y Licenciatura en Geografía, con lo cual los y las estudiantes tenían por primera vez la oportunidad de recibir títulos exclusivos en Geografía, separados de los de Historia. Además, se podía elegir entre dos énfasis: Humano o Físico.

Para el año de 1974, la Sección de Geografía se convierte en Departamento bajo la dirección del profesor Rafael Obregón Loría y, junto con el Departamento de Historia forman la Escuela de Geografía e Historia. A la vez en este año, dicha escuela pasa a formar parte de la nueva Facultad de Ciencias Sociales. Dos años más tarde, 1976 y para 1977, se graduaron los primeros estudiantes con el grado de bachillerato y licenciatura en Geografía. Hacia el año de 1990 se abre la Maestría Centroamericana en Geografía y unos años más tarde, el departamento de Geografía logra independizarse de Historia para convertirse en la Escuela de Geografía (1997).

Desde que existe la carrera de Geografía se ha establecido una intensa relación con comunidades, instituciones públicas y privadas por medio de trabajos comunales, investigaciones y estudios de impacto ambiental, ordenamiento territorial y cartografías temáticas.

PROGRAMA:

Para ingresar a la Universidad de Costa Rica, los estudiantes nacionales deben hacer una prueba de aptitud académica. Para aplicación desde el extranjero, existen convenios con algunas universidades, los instructivos para ingresar desde otros países pueden verse en la página:

http://www.oaice.ucr.ac.cr/prog_intercambio_acad.htm.

El Programa de Geografía se enmarca en las características de una universidad humanística, el cual busca llevar a un mejor entendimiento del espacio geográfico, situarse ante las problemáticas actuales y desembocar en la acción y ejecución de medidas de ordenamiento y gestión territorial aplicando modernas herramientas geoespaciales. Existe un bloque de materias dedicadas al análisis e interpretación regional, de tal forma que se imparten geografías regionales para Costa Rica, América Central y el Caribe, Norte y Suramérica, y el Mundo. Materias como geografía de América Latina se ofrecen como materias extracurriculares. También, se incursiona en temáticas de carácter ambiental y a la vez, con mirada holística en cursos como Ecología Tropical, Gestión Ambiental, Ordenamiento del Territorio y Geografía del Paisaje para bachillerato y en el plan de licenciatura con Manejo de Áreas Silvestres, Percepción del Ambiente y ordenamientos de o en: cuencas hidrográficas y ambientes costeros, espacios turísticos, urbano y del espacio agrícola. En ocasiones se ofrecen cursos opcionales como Geografía de la Salud y Geomorfología Litoral. Para obtener el título de licenciatura en Geografía y ejercer como profesional se requiere de un total de 159 créditos distribuidos 10 ciclos lectivos o semestres. Asimismo, la Universidad de Costa Rica posee el requisito de 300 horas de trabajo comunal universitario.

Se cuenta con dos maestrías (académica y profesional), la académica constituye la oportunidad para estudiantes de geografía y de ciencias afines de especializarse en materia de estudios territoriales, tanto aplicados al Ordenamiento como orientados hacia la producción académica de conocimiento. Se creó en 1985 por acuerdo del Consejo Nacional de Rectores (CONARE), con el fin de impulsar el desarrollo de las ciencias geográficas en Costa Rica y el resto de América Central. En 1992 se regionalizó el programa a través de la Confederación Universitaria de Centroamérica (CSUCA).

La Maestría profesional en Sistemas de Información Geográfico y Teledetección es un programa especializado multidisciplinario, ofrecido en forma compartida por la Universidad de Costa Rica (UCR) y la Universidad Nacional de Costa Rica (UNA). Desarrolla temáticas especializadas en teledetección, fotogrametría, geodesia, cartografía, modelado de procesos biofísicos, diseño e implementación de bases de datos espaciales, programación de aplicaciones en SIG, y da una visión administrativa en gerencia y gestión de proyectos de SIG. El director de ambos programas es el Dr. Rafael Arce Mesén.

PLANTA DOCENTE (2014-2015)

Álvarez Vargas, Lisbeth -MSc — Costa Rica. Gestión del Riesgo en Desastres y Atención de Emergencias.

Arce Mesén, Rafael -Dr. Canadá — Cartografía Digital, Sistemas de Información Geográfica

Artavia Rodríguez, Guillermo -MSc. Costa Rica — Biogeografía. Estudios doctorales en Ciencias-UCR

Avendaño Flores, Isabel -Dra. M.Sc. en Población, Dra. Costa Rica — Sociedad y Cultura

Bergoeing Guida, Jean Pierre -Dr. Francia — Geomorfología

Birkel, Christian -Dr. Alemania y Escocia — Hidrología

Brenes Quesada, Guillermo -D.E.A. Francia — Geomorfología

Castillo Vásquez, Roberto -Dr. USA — Geografía Cultural y Rural

Cortés Granados, Víctor -M.Sc. Bélgica — Geología y Geomorfología del Cuaternario y Dr. Costa Rica. Sistemas de Producción Agrícola Tropical Sostenible

Cortés Ramos, Alberto -Dr. Inglaterra — Ciencias Políticas y Geografía

Durán Segura, Luis Armando -MSc. Costa Rica y Colombia — Antropología y Estudios Latinoamericanos

Girot Pignot, Pascal -MSc. Francia — Geografía

Granados Chaverri, Carlos L., Dr. USA — Geografía Política y Cultural

Gutiérrez Rojas, Rafael -MSc. Costa Rica — Geografía y Turismo

León Alfaro, Yazmín -Lic. Costa Rica

Lizano Araya, Melvin -MSc. Costa Rica, Sistemas de Información Geográfica y Teledetección

Martínez Barbáchano, Rubén -Lic. España

Meléndez Dobles, Silvia -Bach. En Historia, Bach. Geografía, MSc. Costa Rica — Geografía. Estudios doctorales en Historia (UCR)

Morúa Pérez, Marlon -Lic. Costa Rica

Ramírez Moreira, Olman -MSc. Costa Rica — Estadística

Rodríguez Echavarría, Tania -Dra. Francia-Ciencias Políticas y Geografía

Solano Mata, Francisco -MSc. Costa Rica — Geografía

Zúñiga Venegas, William -Dr. España — Geografía del Paisaje

PROFESORA EMÉRITA

Hall Carolyn, Dra. Inglaterra — Geografía Histórica

DOCENTES REALIZANDO DE ESTUDIOS DE POSGRADO (2015)

Acosta Schnell, Sabrina —Maestría en Brasil y Doctorado en Francia (2012-2018), especialidad: Ordenamiento Territorial

Artavia Rodríguez, Guillermo -MSc. Doctorado en UCR (2014-2018), especialidad: Biogeografía

Hernández Meza, Andrey -MSc. Doctorado en Francia (2012-2016), especialidad: Geografía Urbana

Vargas Picado, Huberth —Maestría y doctorado en Francia (2013-2018), especialidad: Geografía Económica y Estudios Regionales

Cascante Campos, Alejandro -Lic. Maestría y doctorado en Estados Unidos (2014-2020), especialidad: Educación Geográfica.

PLANTA PROFESIONAL

Fernández Arce, Mario. -Dr. México — Geología

Hernández Díaz, Ana Lucía -Licda. Costa Rica — en Ciencias Políticas, Egresada Administración Universitaria

Masís Campos, Ramón -MSc. Costa Rica — Sistemas de Información y Teledetección

Reyes Chaves, Jonnathan -MSc. Costa Rica — Sistemas de Información y Teledetección

Solano Mata, Francisco -MSc. Costa Rica — Geografía

UNIVERSIDAD NACIONAL DE COSTA RICA

ESCUELA DE CIENCIAS GEOGRÁFICAS

DATE FOUNDED: 1973

GRADUATE PROGRAM FOUNDED: 2003 (Master)

GRADUATE PROGRAM FOUNDED: 2007 (Master)

DEGREES OFFERED: Diplomado, Bachillerato y Licenciatura, 2 Maestrías

GRANTED 2013-2016: Diplomado 29, Bachillerato 64 y Licenciatura 34

STUDENTS: Mistril, 21

CHAIR: Master Lilliam Quirós Arias

DEPARTMENT ACADEMIC PROGRAM

COORDINATOR: Doctor Gustavo Barrantes Castillo

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Master Lilliam Quirós Arias lquiros@una.cr (Chair) or Doctor Gustavo Barrantes Castillo gbarrantes@gmail.com Graduate Program Coordinator, Escuela de Ciencias Geográficas Universidad Nacional de Costa Rica. Heredia, Costa Rica. Apartado Postal 86-3000, Phone Number: (506) 2277- 3283; Fax Number: (506) 22-61 0028; <http://www.geo.una.ac.cr> E-mail address: geograf@una.cr.

PROGRAM E INSTALACIONES DE INVESTIGACIÓN:

Incluye áreas de trabajo y proyectos asociados (1) Programa en Sistemas de Información Geográfica y Teledetección (PROSIGTE), Fortalecimiento del Programa de Maestría Interuniversitaria en Sistemas de Información Geográfica (SIG) Y Teledetección (DT) (2) Programa Gestión de Actividades y Proyectos del Área de Ordenamiento Territorial y Planes Reguladores, Planes reguladores cantonales (Poás, Siquirres, Upala, Los Chiles, Guatuso y Esparza). (3) Área de paisaje y territorio: Sinergias entre Paisaje y Turismo en Centroamérica: el caso de Tamarindo, Costa Rica; San Juan del Sur, Nicaragua y Roatán, Honduras. Corredor Verde Fluvial para el Área Metropolitana de Heredia. II Etapa. (4) Área de riesgos naturales: Utilización de Modelaje Computacional y Sistemas de Información Geográfica como Herramientas para la Gestión del Riesgo por Caída de Ceniza Proveniente del Volcán Irazú y el Ordenamiento Territorial en el Valle Central. Aproximación de vulnerabilidades y amenazas en cantones selectos para la observación y diagnóstico de potencial a desastres (5) Manejo de cuencas y recursos asociados: Balance hídrico de la región central de costa rica. El caso de la micro cuenca del río Bermúdez. Programa Integrado de Protección y Manejo Sostenible del Recurso Suelo (6) Servicios de información y divulgación: Servicio de mapoteca virtual para la incorporación de las TIC en las actividades académicas. Revista Geográfica de América Central (7) Programa de Acreditación: Seguimiento a la calidad en la carrera de Ciencias Geográficas con énfasis en Ordenamiento del Territorio.

PLAN ACADEMICO, REQUISITOS DE ADMISION, AYUDA FINANCIERA:

Una carrera de pregrado: Diplomado en Cartografía y Diseño Digital.

Una carrera de grado: Bachiller y Licenciado en Ciencias Geográficas con énfasis en ordenamiento del territorio.

Dos carreras de posgrado; Maestría en Gestión de Turismo de Naturaleza y Maestría en Sistemas de Información Geográfica y Teledetección.

II Ciclos anuales de 17 semanas. Haber aprobado examen de admisión. El plan de Estudio en la CCG es de modalidad presencial, combina horas contacto (que a su vez en la CCG se divide en hora laboratorio, horas de campo, trabajo práctico) y las horas de estudio independiente. Es una carrera de tiempo completo. La Universidad ofrece diferentes modalidades de becas o ayudas económicas. la carrera está acreditada (1 de julio de 2010) por el sistema nacional de acreditación de la educación superior (SINAES), agencia acreditada a nivel mundial por la Red Internacional de Agencias de Aseguramiento de la Calidad de la Educación Superior, conocida por sus siglas en inglés INQAAHE. Mayor información planes de estudio y duración <http://www.geo.una.ac.cr/>.

FACULTY:

Alfaro Chavarría Consuelo, Máster — Cartografía y Enseñanza de la Geografía

Alfaro Sánchez Marvin, Licenciado — Cartografía, Sistemas de Información Geográfica

Alvarado Sánchez Meylin, Máster — Desarrollo Rural Comunitario y Licda. Educación Ambiental y Turismo

Araya Ramírez Iliana, Máster — Geografía Humana y Enseñanza de la Geografía

Arrieta Chavarría Omar, Doctor — Geografía Humana, Ordenamiento Territorial y Epistemología de la Geografía

Arroyo González Luis Nelson, Máster — Recursos Naturales, Fotointerpretación y Desastres Naturales

Barrantes Castillo Gustavo, Doctor — Geografía Física, Gestión del riesgo y geoinformática

Cedeño Montoya, Betsy, Máster — Sistemas de información geográfica y Teledetección

Hernando Echeverría Ligia, Máster — Geografía Física, Hidrología y manejo de cuencas

Miranda Álvarez Pablo, Máster — Ordenamiento Territorial, Turismo, Estadística
Moraga Peralta Julio Cesar, Licenciado — Sistemas de Información Geográfica y Teledetección
Morera Beita Carlos, Doctor — Ecología del paisaje, Planificación ambiental y turismo
Orias Arguedas Lidia, Master — Geografía Humana, Geografía de los Transportes
Orozco Vilches María Elena, Máster — Geografía Humana, Evaluación y Formulación de Proyectos
Greyty Quesada Thompson, Licenciada — Planificación territorial
Quirós Arias Lilliam, Máster — Geografía Humana, Desarrollo Rural
Rivera Jiménez Sergio, Licenciado — Legislación ambiental
Rodríguez Soto Francisco, Máster — Planificación urbano regional y Sistemas de Información Geográfica
Romero Vargas Marilyn, Doctora — Planificación territorial ambiental, paisaje y conservación
Ruiz Hernández Amalia, Licenciada — Cartografía, Sistemas de Información Geográfica
Sandoval Murillo Luis, Máster — Geógrafo, Paisaje y Conservación, Sistemas de Información Geográfica
Solano Mayorga Manuel A., Máster — Sistemas de Información Geográfica y Teledetección
Vega Ramírez Mauricio, Licenciado — Geografía Humana, Ordenamiento territorial, Gestión Municipal
Daniel Avendaño Leadem, Maestría — Sustentabilidad y desarrollo, Geografía ambiental

CUBA

UNIVERSIDAD DE LA HABANA

FACULTAD DE GEOGRAFÍA

FUNDADA EN: 1979

TÍTULO OTORGADO: Licenciado en Geografía

DECANA: Dra. Nancy Pérez Rodríguez

SITIO WEB: <http://geo.uh.cu/site/>

PROFESIONALES QUE HA PRODUCIDO LA

CARRERA: 1200 egresados

OBJETIVOS DE LA CARRERA:

Constituir un elemento indisolublemente ligado a la formación del futuro profesional. Propiciar el desarrollo y calificación del personal docente para las investigaciones. Garantizar el uso del potencial científico que labora y estudia en la facultad para la solución de tareas específicas del desarrollo económico y social del país. Por ello se ha puesto el énfasis en las investigaciones de carácter aplicado, vinculadas a la solución de problemas sociales, investigaciones que relacionan los trabajos técnicos fundamentales con la práctica, lo que ha sido una vía efectiva y operativa para introducir los resultados de la investigación en la economía, la producción y la organización social. Pueden diferenciarse varias etapas en la consolidación del trabajo científico investigativo.

También se imparten especialidades como Cursos, Diplomados, Maestrías y Doctorados.

Maestrías:

Maestría en “Geografía, Medio Ambiente y Ordenamiento Territorial”, la que comenzó a ofrecerse a partir del curso académico 1995-1996, la que tuvo desde sus inicios por objetivo, la formación de egresados en universitarios con una alta competencia profesional al más alto nivel científico-técnico y con gran rigor académico.

Maestría en “Geografía Militar”, en el curso académico 1997-1998, y que tuvo una duración de dos años. Con un desarrollo exitoso, ejerció una amplia repercusión en la formación de cuadros y oficiales de las FAR, lo que permitió que se ampliara y fortalecieran los vínculos con esta institución.

Diplomados:

Diplomados en “Geoecología de los Paisajes”, así como el diplomado en Medio Ambiente y Ordenamiento Territorial” que comenzó a ejecutarse a partir de Septiembre del 2000. Se han impartido cuatro diplomados en distintas instituciones, relacionadas con el tema de los SIG.

Esta facultad a creado 42 nuevos doctores, que han contribuido con el desarrollo del país.

Profesores de la carrera:

Actualmente la Facultad consta con un claustro integrado por 28 profesores y 2 adiestrados, dedicados a la docencia y a la investigación, de ellos 17 poseen el Título de Doctores en Ciencias Geográficas y 10 el de Master en Geografía Medio Ambiente y Ordenamiento Territorial.

ECUADOR

CENTRO PANAMERICANO DE ESTUDIOS E INVESTIGACIONES GEOGRÁFICAS, CEPEIGE

POINT OF CONTACT: Ing. Nelson Ortega Valencia, Director. E-mail: cepeige@cepeige.org. Website: www.cepeige.org. Teléfono (593) 02 2237 725, 02 2237 733, 02 2541 200. Fax: (593) 02 2509 122

FOR FURTHER INFORMATION WRITE TO: CEPEIGE: Seniergues E4-676 y Gral. Paz y Miño, 3er. Piso del Edificio del Instituto Geográfico Militar. Quito – Ecuador; cepeige@cepeige.org

OBJETIVO: El CEPEIGE tiene por objetivo difundir y estimular el conocimiento de las ciencias geográficas en el Continente, mediante la organización de cursos para post-graduados, realización de investigaciones, organización de eventos científicos especializados, edición de textos y documentos geográficos, y la cooperación con organismos nacionales e internacionales relacionados con su finalidad.

El CEPEIGE, en el marco de sus atribuciones, procura la permanente actualización de los conocimientos geográficos mediante la implementación de eventos de capacitación a nivel presencial y virtual, para lo cual mantiene sus instalaciones y laboratorios adecuados con los recursos tecnológicos y modernos que demanda la Nueva Geografía.

ACTIVIDADES PRINCIPALES:

CURSOS INTERNACIONALES DE GEOGRAFÍA APLICADA

Se realizan con el auspicio del Instituto Panamericano de Geografía e Historia, IPGH, y el Aval Académico de una Universidad del Ecuador, y ocasionalmente con el aval de una Universidad extranjera de prestigio; este evento tiene la categoría de eventos de especialización a nivel de posgrado.

Están dirigidos a profesionales que representan a los países panamericanos, miembros del IPGH, vinculados con las ciencias geográficas, y tratan cada año un diferente tema de actualidad de la Geografía Aplicada, en la modalidad presencial y actualmente con

énfasis en la modalidad online. La dirección del evento está a cargo de un Profesor Principal Invitado, experto internacional especializado en el tema, que contará con la colaboración de profesionales ecuatorianos y extranjeros.

Su principal objetivo es especializar a los participantes en aspectos relevantes de la Geografía Aplicada para optimizar su papel de multiplicadores en los campos de la planificación, investigación y docencia geográficas.

El período de duración es de siete semanas a tiempo completo, en la modalidad presencial y de tres meses en la modalidad Online, y se desarrollan entre los meses de agosto y diciembre de cada año. El Curso se divide en dos fases, en la primera se imparte instrucción teórico-conceptual sobre el tema central del evento y sus disciplinas de apoyo, adicionalmente respaldadas por conferencias especializadas y prácticas de campo. La segunda fase comprende la realización de trabajos dedicados al diseño de un proyecto de investigación geográfica aplicado al desarrollo territorial o a la difusión y enseñanza de la Geografía haciendo uso de datos, herramientas virtuales, lectura de publicaciones y trabajo de campo. Cada actividad será acompañada por los facilitadores- tutores en la construcción del informe final de investigación por medio del análisis y procesamiento de la información obtenida y de acuerdo a los parámetros académicos del curso como requisito para optar por el Certificado de Aprobación.

CURSOS CORTOS PERMANENTES:

En el transcurso del año se dictan cursos de especialización, para la comunidad panamericana tales como:

- Fundamentos Catastrales
- Modelo de Gestión Estratégica de Información Geográfica Territorial
- Conceptos y Aplicación de Geoestadística con el Software Libre R
- Análisis Multivariante Básico para Minería de Datos con el Software Libre R
- Herramientas de Visualización y Análisis de Datos Geográficos y Aplicación con el Software Libre R
- SIG Aplicado al Medio Ambiente
- SIG, Niveles Básico e Intermedio
- Curso Básico de Sistemas de Información Geográfica con Software Libre
- Posicionamiento GPS Diferencial
- Curso/Taller: Mapeo Participativo Comunitario para la Gestión del Territorio con Enfoque en la Reducción de Multi-amenazas
- Modelo de Terreno y Riesgos con Saga GIS y R
- Curso Básico de Herramientas para Investigación Científica
- Curso Básico del Entorno y Lenguaje de Programación R
- Curso: Básico de Diseño de Experimentos Aplicado con R
- Curso: Prospección de Anomalías Geoquímicas y Minerales Usando R
- Curso Básico de Base de Datos Geográfica con PostGis
- Curso Básico de Infraestructura de Datos Espaciales con Software Libre
- Curso: Generación de Cartografía de Pronta Respuesta con Dron
- Curso: SIG Aplicado a Riesgos y Desastres

... y muchos otros temas más de manejo geoespacial, a implementarse por requerimiento institucional.

PONTIFICIA UNIVERSIDAD CATÓLICA DEL ECUADOR

**FACULTAD DE CIENCIAS HUMANAS
ESCUELA DE CIENCIAS GEOGRÁFICAS
FUNDADA EN: 1989**

GRADOS QUE OFRECE: Licenciatura en Geografía y
Territorio (POR APROBARSE)
ESTUDIANTES ACTUALES: 160
DIRECTORA: MSc. Olga H. Mayorga

PARA MAYOR INFORMACION ESCRIBIR A: Olga Mayorga.,
Escuela de Ciencias Geográficas, Facultad de Ciencias Humanas, Av.
12 de Octubre 1076 y Roca, Quito-Ecuador. Apartado Postal 17-01-
2184. Teléfono: 593-2-2991585 Directo. E-mail:
ohmayorga@puce.edu.ec.

PROGRAMAS: La Escuela de Ciencias Geográficas de la PUCE forma geógrafos con competencias para ejecutar actividades profesionales relacionadas con la interacción de los seres humanos y la naturaleza física, con énfasis en la visión territorial y ambiental. Para ello, desarrolla en los estudiantes habilidades intelectuales de análisis, síntesis y reflexión sobre los espacios geográficos. Parte importante del pensum está orientada a lograr un dominio del manejo de las técnicas de análisis espacial para su aplicación en la planificación, el ordenamiento territorial y la gestión ambiental.

Los programas que se ofrecían y que al momento se encuentran en **plan de contingencia** (Ingeniería en Ciencias Geográficas y Planificación Territorial y Ciencias Geográficas y Medio Ambiente), debido a la implementación de Nomenclatura y Homologación de Títulos que se ha implementado en el sistema universitario ecuatoriano y que no permite ofrecer títulos de Ingeniería desde la Facultad de Ciencias Humanas, por lo que se ha presentado a la entidad pertinente el Diseño de la Licenciatura en Geografía y Territorio que esperamos ofertar en el año 2019 luego de la aprobación respectiva.

Ingeniería Geográfica y Planificación territorial: Esta carrera forma profesionales preparados para diferenciar y analizar los tipos de ocupación del espacio, apoyándose en fotografías aéreas, imágenes de satélite, trabajo de campo y cartografía. Su mayor fortaleza consiste en estudiar las relaciones sociedad – naturaleza.

Este profesional está en capacidad de:

- Administrar y ordenar adecuadamente los espacios naturales y geográficos.
- Conocer las dinámicas de los paisajes naturales
- Establecer modelos matemáticos para estudiar tendencias y escenarios de ocurrencia de tales fenómenos
- Manejar técnicas de análisis espacial y conocer las bases legales y reglamentarias relacionadas con su especialidad.
- Coadyuvar a detectar, analizar y sugerir las medidas preventivas y de mitigación de algún evento natural que ponga en riesgo a la sociedad.
- Intervenir en la planificación y en el manejo de áreas protegidas, recursos naturales, agro ecosistemas y desarrollo sustentable, principalmente a través de procesos de planificación, diseño de sistemas de monitoreo y control del espacio y del medio ambiente.

Ingeniería Geográfica y gestión ambiental: Esta carrera forma profesionales preparados para diferenciar y analizar las condiciones ambientales del desarrollo humano y la ocupación del territorio. Su trabajo se realiza con el apoyo de fotografías aéreas, imágenes de satélite, trabajo de campo y cartografía asignaturas instrumentales que apuntalan su sólida formación en Ciencias de la Tierra, Ciencias Ambientales y Ciencias Sociales, las que constituyen, propiamente, el campo de su actividad profesional.

Su mayor fortaleza consiste en estudiar las relaciones sociedad – naturaleza, los impactos ambientales y la gestión del territorio y del ambiente, todo esto concebido como un todo holístico que posibilita la vida del Planeta y el desarrollo de la humanidad.

Este profesional está en capacidad de:

- Realizar la gestión adecuada del ambiente, principalmente de sus componentes naturales.
- Realizar la gestión adecuada del territorio, en sus diferentes niveles y jurisdicciones, principalmente en sus componentes jurídico-organizacionales y sociales, relacionándolos con los ambientales (naturales).
- Entender las dinámicas de los paisajes geográficos y realizar las adecuaciones y gestión que sean necesarias.
- Establecer modelos matemáticos para estudiar tendencias y escenarios de ocurrencia de tales fenómenos.
- Manejar técnicas de análisis espacial para la gestión ambiental y territorial.
- Conocer y aplicar las bases legales, reglamentarias y de otro tipo, relacionadas con la gestión del ambiente y del territorio.
- Participar en la identificación, análisis prevención y mitigación de riesgos provenientes de eventos naturales, así como de los riesgos que deriven de las actividades humanas.
- Intervenir en gestión de recursos naturales de todo tipo, de las áreas protegidas, de los agro ecosistemas, sistemas urbanos y del desarrollo sustentable, en general, principalmente a través de procesos de planificación, diseño de sistemas de monitoreo, evaluación y auditorías ambientales y control del medio ambiente y del territorio.
- Intervenir proactivamente en la administración pública del medio ambiente y del territorio nacional mediante su visión holística, integrada e integradora de los componentes naturales, sociales, económicos y normativos de la nación.

Al momento no se está ofertando ningún programa de Maestría.

Profesores/as:

Se indica el nombre, áreas de interés o materias que dicta:

Sheika Aragundi, Ph.D. — Áreas Protegidas, Ecología, Biogeografía
Dinora Hidalgo — Formulación y Gerencia de Proyectos, Contextos e Interculturalidad, Plan de Disertación.
Jorge Campaña, Mag. — Desarrollo Sustentable, Impactos Ambientales, Educación Ambiental
Felipe Valdez Master — Geografía Urbana, Análisis Espacial.
Galo Manrique, Mag. — Geología, Geomorfología, Riesgos Naturales, Cuencas Hidrográficas
Olga Mayorga, MSc. — Planificación Local y Regional, Sistemas de Información Geográfica y Análisis Espacial
Monserrath Mejía, Mag. — Sistemas de Información Geográfica, Cartografía Estadística, Bases de Datos
Carlos Nieto, Ph.D. — Agroecología, Recursos Naturales; Proyectos.
Soledad Vásquez, Mags. — Espacio y Sociedad, Cartografía Temática, Catastro.
Jenny Zamora MSc. — Geología, geomorfología, Hidrología.

JAMAICA

UNIVERSITY OF THE WEST INDIES, MONA

DEPARTMENT OF GEOGRAPHY AND GEOLOGY

CHAIR: David Barker

FOUNDED: 1961 (Geology), 1965 (Geography)

DEGREES OFFERED: BA, BSc, BEd, MPhil, MSc, PhD

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography and Geology, Kingston 7, Jamaica.
Telephone: (876) 927-2728/2129. Fax: (876) 977-6029. Email: geoggeol@uwimona.edu.jm;

Web: <http://www.mona.uwi.edu/geoggeol/>.

Head of Department: Professor David Barker (Email: david.barker@uwimona.edu.jm).

PROGRAMS:

The University of the West Indies has campuses in Jamaica (Mona), Trinidad (St. Augustine), and Barbados (Cave Hill). Geography and Geology are only offered as degree-level subjects at both the undergraduate and graduate levels (BA, BSc, BEd, MPhil, MSc, and PhD) at Mona in Jamaica (the St. Augustine campus provides a recently introduced BSc in Geography). Undergraduate students are attracted from across the English-speaking Caribbean, although the largest number of students typically comes from Jamaica. Further information in relation to the courses offered by the department is also listed on the departmental website noted above.

ACADEMIC FACULTY:

Geography

Dr. David Barker, Professor and Head of Department — Agricultural Geography
Dr. David Dodman, Lecturer — Urban Geography
Dr. Savitha Ganapathy — Biogeography, Forest Ecology
Dr. Susan Mains, Lecturer — Cultural and Urban Geography
Dr. David Miller, Lecturer — Geomorphology, Quaternary Science
Dr. Balfour Spence, Lecturer — Environmental and Disaster Management

Geology

Mr. Rafi Ahmad, Lecturer — Structural and Environmental Geology, Hazards Mapping
Dr. Trevor Jackson, Professor — Igneous Petrology
Dr. Arpita Mandal — Hydrology, Applied Geology
Dr. Simon Mitchell, Professor — Sedimentary Geology, Rudist Palaeontology
Dr. Edward Robinson, Emeritus Professor — Marine Geology, Physical Geology, Foraminiferal Palaeontology
Dr. Thomas Stemann, Lecturer — Palaeontology

RESEARCH UNITS:

Disaster Studies Unit

Mr. Rafi Ahmad, Lecturer

Earthquake Unit

Dr. Margaret Wiggins-Grandison, Research Fellow

Environmental Management Unit

Dr. Elizabeth Thomas-Hope, Professor

Marine Geology Unit

Dr. Edward Robinson, Emeritus Professor
Ms. Shakira Khan, Research Associate

JOURNALS:

Caribbean Geography
Caribbean Journal of Earth Science

ORGANIZATIONS:

Jamaican Geographical Society
Geological Society of Jamaica

MEXICO

CENTRO DE INVESTIGACIONES EN GEOGRAFIA AMBIENTAL, UNAM

TIPO DE INSTITUCION: Pública, académica

ACTIVIDAD PRINCIPAL DE LA ASOCIACION:

Investigación, SIG/cartografía

FECHA DE FUNDACION: 17 de Agosto de 2007

SITIO WEB: www.ciga.unam.mx

PARA MAS INFORMACION CONTACTAR: Dr. Gerardo Bocco Verdinelli, Director, UNAM-Campus Morelia Antigua Carretera a Pátzcuaro, 8701, Colonia Ex Hacienda de San José de la Huerta, C.P. 58190. Morelia, Michoacán, México. Telefono: 52 4433223865, Fax: 52 4433223880, gbocco@ciga.unam.mx

MISION DEL CENTRO: La misión del CIGA es contribuir a la planificación territorial para el manejo sustentable (aprovechamiento, conservación y restauración) de los recursos naturales en territorios específicos, mediante un programa integrado de investigación, docencia, vinculación y divulgación del conocimiento, con énfasis en la dimensión histórica y geográfica de la cuestión ambiental, en particular en la región centro-occidente del país (México)

ESTRUCTURA Y ORGANIZACIÓN: La toma de decisiones en el CIGA opera con una Dirección y el Consejo Interno (CI, se reúne mensualmente) constituido por 7 miembros: los secretarios académico, técnico y el coordinador de docencia, designados por el director, tres representantes del personal académico (dos por los investigadores y uno por los técnicos académicos, que a su vez conforman la mesa directiva del Colegio del Personal Académico, misma que se reúne bimestralmente) y el director, quien preside el CI. Las comisiones dictaminadora y evaluadora operan como órganos de consulta (se reúnen cuatrimestralmente). Participamos puntualmente en el Consejo Técnico de la Investigación Científica y el Consejo Académico de Área de las Ciencias Sociales de la UNAM (www.unam.mx)

OBJECTIVOS: Los objetivos del CIGA, definidos en 2006 y mantenidos a la fecha, son: Realizar investigación científica de excelencia en el campo de la geografía ambiental, fortaleciendo los marcos conceptuales necesarios, en el contexto de la comprensión de la relación histórica entre sociedad-cultura-naturaleza, a partir de la perspectiva del análisis integrado del paisaje abordando temas de investigación emergentes y transversales. Desarrollar, en colaboración con otras dependencias académicas locales, nacionales e internacionales, programas de excelencia para la formación de recursos humanos Vincular las actividades de investigación y docencia con las necesidades concretas de resolución de problemas ambientales, planteadas por los sectores social, productivo y gubernamental, utilizando técnicas de investigación participativa y auspiciando sinergias entre grupos académicos y otros actores sociales, en particular, en la región centro-occidente del país.

PROGRAMAS QUE SE OFRECEN: El CIGA desarrolla su actividad en el marco de cuatro áreas de investigación (bajo la supervisión de la dirección y la secretaría académica) a las cuales se ligan líneas de investigación en torno a las relaciones sociedad-cultura-naturaleza desde un enfoque territorial. Estas áreas son: (a) Ciudad, Región y Ambiente (Ambientes Urbanos y Peri-urbanos, originalmente denominada Sustentabilidad Urbana y Regional) (b) Historia Ambiental, Poder y Territorio, (c) Ambientes Rurales, (d) Ciencia-Sociedad-Innovación. La entidad dispone de dos laboratorios adecuadamente equipados, uno para análisis de suelos y agua, y otro para análisis espaciales (percepción remota y sistemas de información geográfica); una unidad de cómputo; una unidad de vinculación; y un centro de documentación que forma parte de la red UNAM de bibliotecas. En docencia, el CIGA es entidad responsable del posgrado en Geografía de la UNAM (www.posgrado.unam.mx) y ofrece un programa de maestría en Manejo Integrado del Paisaje y un doctorado tutorial en Geografía (www.ciga.unam.mx)

EL COLEGIO DE MICHOACÁN

**CENTRO DE ESTUDIOS DE GEOGRAFÍA HUMANA-
CEGH**

FECHA DE FUNDACION: 2002

PROGRAMAS DE ESTUDIO: Maestría

CONTACTO PARA PROGRAMA DE POSGRADO:

Martha Chávez Torres, cegh@colmich.edu.mx

POSGRADOS OTORGADOS ANUALMENTE: 1

SITIO WEB: www.colmich.edu.mx

**PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES,
FAVOR DE ESCRIBIR A:** Martha Chávez Torres, Coordinadora del CEGH, La Piedad, Michoacán, México, Telefono: (+52)3525256107 ext 2400, cegh@colmich.edu.mx

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN:

Programs and research facilities: Since September 2004, the Research Center for Human Geography offers an M.A. Program in Human Geography that leads students to become familiar with contemporary issues related to socio-territorial development and related problems in Mexico and Latin America. Particular emphasis is placed on three research areas: a) process in landscapes; b) Socio-economic development, territorial transformation and environmental problems; and, c) Territory, politics practices and social organization.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA

FINANCIERA: Our installations in La Piedad, Michoacán, Mexico, provide the following facilities: a specialized library, fully-equipped classrooms, a computer laboratory, and work places for all students. Academic Program, admission requirements and financial aid: Beginning in September 2006, the Study Programs at El Colegio de Michoacán will operate on a Trimester basis (a total of 8 trimesters, or 2 years). During the first 4 Trimesters courses on the different fields of human geography (theoretical, methodological, technical issues) are offered. The remaining 4 trimesters are devoted to the preparation and realization of a field research-based thesis. CONACYT (Mexico's National Science and Technological Council) and El Colegio de Michoacán have a limited number of scholarships available to applicants. Requirements include obtaining a B.A. in Geography or in a related field in the Social Sciences.

PROFESORADO

Martha Chávez, Ph.D., *Université de Corse Pascal Pauli, France* — Space, culture and mobility

Virginie Thiebaut, Ph.D., *University of Nancy, France* — Process in Landscapes, Historical Geography and landscape transformation

Octavio González, M.A., Ph.D. Candidate, Center for Research and Higher Studies in Social Anthropology (CIESAS), Guadalajara, Mexico — Space, culture and mobility

Leticia Mejía, M.S., Ph.D. Candidate, National Autonomous University of Mexico — Socio-economic development and territorial transformation

Carlos Téllez, M.A., Ph.D. Candidate, National Autonomous University of Mexico — Socio-economic development and territorial transformation

Carlos, Herrejón Peredo, Ph.D., École des Hautes Études in Sciences Sociales, Paris, France — Process in Landscapes, México history: institution and geography

Sara Barrasa García, Ph.D., Autonomous University of Madrid, Spain — Process in Landscapes, Ecology and Environment.

Octavio Montes, Ph. D. El Colegio de Michoacán A. C. Zamora, Michoacán, México — Territory, politics practices and social organization

INSTITUTO PANAMERICANO DE GEOGRAFÍA E HISTORIA (IPGH)

FECHA DE FUNDACIÓN: Febrero de 1928

SECRETARIO GENERAL: César Rodríguez Tomeo

ESTRUCTURA Y ORGANIZACIÓN. Su estructura organizativa es la siguiente: Asamblea General, Consejo Directivo, Reunión de Autoridades, Secretaría General, Comisiones de Cartografía, Geografía, Historia y Geofísica, y Secciones Nacionales.

(i) La Asamblea General es su Órgano Supremo y tiene por misión fijar la política científica, administrativa y financiera del Instituto. (ii) El Consejo Directivo es el Órgano Panamericano del IPGH, tiene a su cargo ejercer las funciones de la Asamblea General, durante los intervalos entre las reuniones de ésta. (iii) La Reunión de Autoridades es el Órgano Rector y Coordinador de las actividades del Instituto entre las Reuniones del Consejo Directivo. (iv) La Secretaría General es el Órgano Central y Permanente del IPGH, responsable de la administración, la coordinación de las actividades de sus diversas instancias de gobierno, brinda la asistencia necesaria para el funcionamiento de los mismos, la ejecución de tareas que se le encomienden y vela por el cumplimiento de los acuerdos adoptados para la buena marcha del IPGH. El Secretario General es el representante del IPGH. (v) Las Comisiones son los Órganos encargados de promover el desarrollo científico y técnico de sus respectivos campos de acción en los Estados Miembros, así como de coordinar, estimular y supervisar los proyectos y otros acuerdos de investigación, aprobados por la Asamblea General o el Consejo Directivo. Existen cuatro Comisiones: Cartografía, Geografía, Historia y Geofísica; se subdividen en Comités y Grupos de Trabajo. (vi) Las Secciones Nacionales constituyen los organismos establecidos por cada Estado Miembro, para el cumplimiento de los fines del IPGH en el ámbito de sus respectivos países.

FINES: (i) Fomentar, coordinar y difundir estudios Cartográficos, Geográficos, Históricos y Geofísicos, así como los de sus ciencias afines y de interés para América. (ii) Promover y coordinar el avance científico y técnico, las investigaciones, las relaciones entre instituciones y especialistas, los trabajos y la capacitación en Cartografía, Geografía, Historia y Geofísica. (iii) Impulsar y estimular la cooperación entre las instituciones especializadas de América y las Organizaciones Internacionales, en sus cuatro áreas.

ESTADOS MIEMBROS: Solamente los Estados Americanos son miembros natos del IPGH. Los países de otros continentes pueden ser Observadores Permanentes. Los 21 países que actualmente integran el IPGH en calidad de Estados Miembros son: Argentina, Belice, Bolivia, Brasil, Chile, Colombia, Costa Rica, Ecuador, El Salvador,

Estados Unidos de América, Guatemala, Haití, Honduras, México, Nicaragua, Panamá, Paraguay, Perú, República Dominicana, Uruguay y Venezuela. Los países Observadores Permanentes son: España, Francia, Israel y Jamaica.

CAPACITACIÓN Y BECAS: A través de sus Comisiones el IPGH ofrece una amplia gama de cursos, talleres y conferencias dirigidas a especialistas y profesionales de las áreas de interés del Instituto, y en general a otros profesionales interesados en la materia.

PROGRAMA CIENTÍFICO-TÉCNICO

El Programa de Asistencia Técnica del IPGH tiene como propósito la ejecución de acciones especializadas que contribuyan a la integración regional y al desarrollo sostenible en temas específicos: cambio climático, ordenamiento del territorio y desastres naturales.

PARA MAYOR INFORMACIÓN DIRÍJASE A: Secretaría General del IPGH, Ex Arzobispado 29, Colonia Observatorio, 11860 México, Ciudad de México, teléfonos (52- 55) 5277-5791 / 5277-58888 / 5515-1910; Fax (52-55) 5271-6172, correo electrónico: CooperacionTecnica@ipgh.org / <http://www.ipgh.org>

**También lo encuentra como Pan American Institute of Geography and History (PAIGH)*

INSTITUTO POLITÉCNICO NACIONAL

CENTRO DE INVESTIGACIÓN EN COMPUTACIÓN LABORATORIO DE PROCESAMIENTO INTELIGENTE DE INFORMACIÓN GEOESPACIAL

FECHA DE FUNDACION: 1996

PROGRAMAS DE ESTUDIO: Maestría, Doctorado

CONTACTO PARA PROGRAMA DE POSGRADO: Dr.

Miguel Jesús Torres Ruiz, mtorres@cic.ipn.mx; Dr.

Oscar Camacho Nieto, oscarc@cic.ipn.mx

SITIO WEB: <http://geo.cic.ipn.mx>

PARA PEDIR UN CATÁLOGO Y MÁS INFORMACIONES, FAVOR DE ESCRIBIR A: MARCO ANTONIO MORENO IBARRA, JEFE DEL LABORATORIO, Mexico, D.F., Teléfono: 52-55-57296000 ext 56528, Fax: 52-55-57296000 ext 556607, marcomoreno@cic.ipn.mx

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: Se imparten programas de maestría y doctorado en Ciencias de la Computación, los miembros del laboratorio trabajan en GIS y de forma específica en el área de procesamiento semántico de datos geográficos, en problemas relacionados con la recuperación de información, integración de fuentes de datos, entre otros. Los programas de maestría y doctorado fueron envaluados por el Consejo Nacional de Ciencia y Tecnología (CONACYT), y pertenecen al Programa Nacional de Posgrados de Calidad, en donde ostentan la categoría de Programa de Competencia Internacional y Programa Consolidado. Se busca que los estudiantes desarrollen trabajos que tengan aplicación directa en la resolución de un problema real, además participan en proyectos de investigación aplicada, lo cual les da experiencia para su desarrollo profesional. Los egresados pueden desempeñarse tanto en el sector industrial como educativo, o bien, son aptos para continuar sus estudios. Por el perfil del posgrado en computación, los egresados pueden adaptarse con facilidad a diferentes áreas. Los estudiantes trabajan ya sea en el laboratorio o bien en cubículos, en donde cuentan con el equipo necesario para realizar su investigación. El edificio es cómodo y cuenta con las facilidades necesarias. Adicionalmente, el laboratorio recibe

estudiantes de ingeniería para realizar servicio social o tesis de grado.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: Para ingresar a los programas de posgrado los estudiantes participan en procesos de admisión, que consisten de examen de conocimientos, examen de inglés y entrevista. Por la naturaleza de los programas requieren que los estudiantes estén graduados ya sea de ingeniería o maestría según corresponda. Los planes de estudios son enfocados a computación, sin embargo los estudiantes tienen accesos a los cursos que imparte el laboratorio: fundamentos de la ciencia de la información geoespacial, diseño e implementación de bases de datos geoespaciales, herramientas para el diseño e implementación de gis, métodos de geopronóstico, análisis espacial aplicando técnicas de inteligencia artificial y percepción remota. En el caso de la maestría los estudiantes cursan 4 materias de tronco común (teoría de la computación, matemáticas discretas, programación avanzada y sistemas operativos). Además cuatro cursos optativos, que dependen del tema de tesis que desarrolle el estudiante. Los estudiantes admitidos al posgrado tienen derecho a solicitar un apoyo por parte del CONACYT, adicionalmente el IPN otorga becas, por lo que cada estudiante tiene derecho a un apoyo económico, además existe en el Instituto un programa de formación de investigadores en el que los alumnos pueden acceder a un apoyo económico complementario.

PROFESORADO:

José Giovanni Guzmán Lugo, Dr — Procesamiento digital de imágenes, Web mapping
Marco Antonio Moreno Ibarra, Dr — Generalización, Similitud Semántica, Diseño de GIS
Miguel Jesús Torres Ruiz, Dr — Diseño de ontologías, Bases de datos espaciales
Rolando Quintero Téllez, Dr — Procesamiento semántico de datos raster, ambientes virtuales

UNIVERSIDAD AUTÓNOMA DE CIUDAD JUÁREZ

**URBAN STUDIES Ph.D. PROGRAM
PLANNING AND URBAN DEVELOPMENT M.A.
PROGRAM
GEOINFORMATICS B.S. PROGRAM
DEPARTMENT OF ARCHITECTURE
INSTITUTE OF ARCHITECTURE DESIGN AND ARTS
DATE FOUNDED: 1989
DEGREES OFFERED:** Ph.D. in Urban Studies, M.A. in
Planning and Urban Development, and B.S. in
Geoinformatics.
MAJOR AREAS: Geoinformatics, Urban Planning, Urban
and Architectural Space, City and Urban Integration
Processes, Urban Territorial Analysis
HEAD: Erick Sánchez Flores, Ph.D.
DEPARTMENT ADMINISTRATOR: Elvira Maycotte
Maycotte, Ph.D.

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
Department of Architecture, Institute of Architecture Design and Arts,
Av. del Charro # 410 N. Ciudad Juárez, Chih. 32310, México
Telephone: +52 656 688 4820. Fax: +52 656 688 4620.
Email: iada@uacj.mx.
Web: <http://www.uacj.mx/IADA/DARQ/Paginas/default.aspx>

PROGRAMS AND RESEARCH FACILITIES: The Department of
Architecture offers a vertical set of Geography related programs,
starting at the B.S. level with the Geoinformatics program open in

August, 2009. This B.S. sets the basis for strong spatial curricula from a geotechnology perspective to feed our graduate programs. At the M. A. level it offers the Planning and Urban Development program with a major area in Urban Spatial Analysis and recognized by CONACYT. This was the first graduate program at UACJ, operating since 1989 and source of the Geographic Information Center created in 1993. At the Ph.D. level, the Department offers the Urban Studies program open in January 2010, and also recognized by CONACYT, offering the same Geography related major area in Urban Spatial Analysis available at the M.A. To support the academic and research activities of these programs, the Department has the Urban Territorial Analysis Laboratory (LAUT) equipped with specialized hardware, GIS, statistics, and Remote Sensing software for all the projects with a spatial component. The advantages of this geotechnological platform are also used in the learning process of grad and undergrad students, professors and research specialists visiting the UACJ. This infrastructure also serves as the basis for a Continuous Education Training program in geotechnology applications for urban and environmental studies. Some of the main applications developed with the support of this research facilities include projects on remote sensing groundwater exploration and geomorphology mapping; watersheds characterization with high resolution Lidar DEMs; GIS landscape units characterization, high resolution remote sensing urban growth monitoring; GIS urban planning applications; land ordinance programs based on geospatial technologies; Lidar terrain analysis and modeling; remote sensing derived riparian ETP, and land use/cover change in urban and rural environments.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The Urban Studies Ph.D. is a 6-semester program offering three major areas: 1. Urban and architectural space, 2. City and urban integration processes, and 3. Urban territorial analysis. Within each of these specialization areas, students can choose from an ample variety of research themes, representing the research interests of faculty. The study plan is organized in two levels. The first two semesters consists of research, interdisciplinary, and specialized seminars. The remaining semesters are devoted to research seminars to complete the thesis work on individual schedules.

The Planning and Urban Development M.A. is a 4-semester program, which offers a complete set of courses in three major areas: 1. Urban design and housing, 2. Urban structure and mobility, and 3. Geospatial analysis for land ordinance. Applications are accepted on a yearly basis. Admission requirements include, among others, passing a preliminary set of short courses in preparation for the beginning of the program, a statement of intention specifying the proposed subject for the thesis, and an interview with the Academic Committee.

The B.S. program in Geoinformatics offers a strong curriculum in spatial analysis, based on four horizontal thematic axes: 1. Geographic Information Systems, 2. Remote Sensing, 3. Programming, and 4. Geostatistics. This B.S. is an 8-semester program accepting applications from students in architecture, geography, engineering, and other related disciplines. The UACJ has a comprehensive set of scholarships for students with excellent GPA at the bachelor level.

FACULTY:

Alatorre Cejudo, Luis Carlos, Ph.D., Universidad de Zaragoza, Spain
— Remote Sensing, Global Change, Hydrology Geomorphology*
Bravo Peña, Luis Carlos. Ph.D., Centro de Investigación en Alimentación y Desarrollo A.C., Mexico — Landscape dynamics, land suitability, land ordinance, Land use land cover change*
Chávez, Javier, Ph.D., University of Arizona, U.S. — Urban development, GIS analysis, Demography
Granados Olivas, Alfredo, Ph.D., New Mexico State University, U.S.
— RS-GIS for hydrology and geology, Groundwater research, Soil mapping, Precision agriculture
Guiérrez Casas, Luis Enrique, Ph.D. Universidad Complutense de Madrid, Spain — Urban and regional economy, Urban planning

Hernández Hernández Vladimir, Ph.D. El Colegio de la Frontera Norte, México — Urban geography, Urban mobility.
Llera Pacheco, Francisco Javier, Ph.D., University of Arizona, U.S. — Economic geography, Urban administration, Economic development, Mexico-US border communities
Maycotte Pansza, Elvira, Ph.D. Universidad Autónoma de Colima, México — Architecture, Housing, Urban development, Public urban space
Meza Carpio, Estela, Ph.D., Universidad Carlos III de Madrid, Spain — Aesthetics and urban culture
Rivero Peña, Héctor, Ph.D., Universidad Politécnica de Catalunya, Spain — Urban processes, Urban design, Housing
Rodríguez Sosa, Marisol Ph.D., Universidade Federal do Rio de Janeiro, Brasil — Urbanism and planning theory, Urban public space, Urban cultural landscape
Salazar Gutiérrez, Salvador, Ph.D., Instituto Tecnológico y de Estudios Superiores de Occidente, México — Urban sociology, Urban culture
Sánchez Flores, Erick, Ph.D., University of Arizona, U.S. — GIS-RS of natural human environments, Land use land cover change monitoring, Environmental Geography
Torres Olave Maria Elena, Ph.D. — Land use land cover change monitoring, Environmental Geography

Complementary Staff: faculty from other areas within the UACJ and from peer institutions in the U.S. southwest region and Mexico participate in our academic programs.

*Faculty located in the Cuauhtémoc campus

UNIVERSIDAD AUTÓNOMA DE SAN LUIS POTOSÍ

FACULTAD DE CIENCIAS SOCIALES Y HUMANIDADES

FECHA DE FUNDACION: Agosto de 2002

PROGRAMAS DE ESTUDIO: Licenciatura en Geografía

CONTACTO PARA PROGRAMA DE PREGRADO: Dr.

Oscar Reyes Pérez, osrp@uaslp.mx

SITIO WEB:

<http://www.uaslp.mx/Spanish/Academicas/fcsh/OFE/Geografia/Paginas/default.aspx> y
<http://www.geografiuaslp.com/>

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIR A: Oscar Reyes Pérez, Coordinador de la licenciatura en Geografía, San Luis Potosí, México, Teléfono: 52-444-8321000; ext. 9231, osrp@uaslp.mx

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: En la licenciatura en Geografía que se imparte en la Universidad Autónoma de San Luis Potosí podrás aprender a estudiar cómo poder organizar nuestro territorio de la manera más armónica, eficiente y ambientalmente sostenible, a ejecutar estudios de localización de puntos (centros comerciales), líneas (carreteras) o áreas (zonas con riesgo de inundación, incendios, terremotos) en un determinado territorio, así como a expresar tus hallazgos en mapas elaborados mediante el uso de software especializado que son los Sistemas de Información Geográfica. Para ingresar debes tener curiosidad geográfica, es decir, interés en la observación de lugares, capacidad para sintetizar e interpretar datos de procesos naturales y sociales, aptitud física e interés por viajar y explorar lugares en México y otras regiones del mundo, habilidades para el trabajo cartográfico, familiaridad en el uso de equipos de cómputo; curiosidad intelectual por conocer los patrones de organización territorial de procesos naturales y sociales; hábito de lectura e interés por el trabajo científico

multidisciplinario, así como respeto a la sociedad, la diversidad cultural, social y étnica. Al concluir tus estudios profesionales habrás adquirido conocimientos suficientes para describir y analizar las diferentes formas de organización territorial de la sociedad en un mundo globalizado y proponer soluciones metodológicas a problemas territoriales; conocerás las teorías y metodologías geográficas para entender y explicar el comportamiento territorial de las sociedades. Tendrás las habilidades para describir e interpretar los distintos procesos de organización espacial de la sociedad que conforman paisajes y regiones geográficas definidas, así como para operar software especializado de cómputo y de Sistemas de Información Geográfica, que facilitan la elaboración de mapas y el procesamiento de datos bajo criterios espaciales. Además contarás con capacidades para generar, resguardar e interpretar datos básicos de los sistemas naturales sociales y económicos para formular visiones sintéticas de los paisajes o regiones geográficas; para representar cartográficamente diferentes tipos de datos; la capacidad para proponer soluciones ecológicamente sostenibles de orden territorial a problemas derivados de una desequilibrada relación entre la sociedad, la naturaleza y la economía, como el cambio climático, el uso y la degradación de los recursos naturales como resultado de la actividad humana, la pérdida de la biodiversidad y los desastres naturales; también podrás realizar evaluación crítica para formular y mejorar programas de asignaturas, textos y otros materiales utilizados para la enseñanza de la geografía. Como geógrafo puedes trabajar en instituciones públicas y privadas de investigación, planeación, gestión territorial y consultorías de proyectos; instituciones de gobierno, asociaciones civiles no gubernamentales que requieran asesoría y servicios profesionales en proyectos cartográficos y sistemas de información geográfica; agencias de viajes, bancos y empresas privadas; instituciones educativas públicas o privadas en los niveles básico, medio, medio superior, superior y posgrado.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA:

Los requisitos que debes cumplir para ingresar a la licenciatura en geografía son: certificado que acredite haber terminado íntegramente los estudios de nivel medio superior en cualquiera de las siguientes modalidades: Bachillerato en Ciencias Socio-administrativas, Físico –matemáticas o químico biológicas, Bachillerato General o único, Bachillerato tecnológico en el área correspondiente y aprobar el examen de admisión, que consta de evaluaciones en materia de salud, psicométrica, de conocimientos y CENEVAL. La licenciatura en geografía tiene una duración de 9 semestres, en los que cursarás 42 materias obligatorias y 5 optativas que están organizadas en cuatro áreas; teórica, metodológica, específica y de contextualización, que combinan la teoría con la práctica de campo, lo que te permitirá conocer y entender mejor las relaciones del medio ambiente con la sociedad de San Luis Potosí, de México y el mundo; además dentro del plan de estudios ya están contemplados tu servicio social y la elaboración del trabajo de titulación; algunas materias optativas te permiten convivir con gente de otras licenciaturas ya que las puedes cursar en cualquier facultad o escuela de la Universidad Autónoma de San Luis Potosí. Todos los profesores cuentan con doctorado y están en constante actualización, tanto en modelos educativos, como en sus áreas de especialización respectivas.

PROFESORADO:

Álvaro Gerardo Palacio Aponte Profesor Investigador de Tiempo Completo Doctor en Geografía, Universidad Nacional Autónoma de México

Carlos Alfonso Muñoz Robles Profesor Investigador de Tiempo Completo Doctor en Ciencias, en School of Environmental and Rural Sciences, University of New England, Australia

Carlos Contreras Servín Profesor Investigador de Tiempo Completo Doctor en Geografía, Universidad Nacional Autónoma de México

Humberto Reyes Hernández Profesor Investigador de Tiempo Completo Doctor en Geografía, Universidad Nacional Autónoma de México

Javier Fortanelli Martínez Profesor Investigador de Tiempo Completo Doctor en Ciencias Agropecuarias, Facultad de Agronomía, Universidad Autónoma de San Luis Potosí

María Guadalupe Galindo Mendoza Profesora Investigadora de Tiempo Completo Doctora en Geografía, Universidad Nacional Autónoma de México

María Teresa Ayllón Trujillo Profesora Investigadora de Tiempo Completo Doctora en Geografía e Historia, Universidad Complutense, Madrid

Miguel Aguilar Robledo Profesor Investigador de Tiempo Completo Doctor en Geografía, Universidad de Texas, Austin (USA)

Oscar Reyes Pérez Profesor Investigador de Tiempo Completo Doctor en Geografía, Universidad Nacional Autónoma de México

Valente Vázquez Solís Profesor Investigador de Tiempo Completo Doctor en Geografía, Universidad Nacional Autónoma de México

UNIVERSIDAD AUTÓNOMA DEL ESTADO DE MÉXICO

FACULTAD DE GEOGRAFÍA

FECHA DE FUNDACION: 1970

PROGRAMAS DE ESTUDIO: Licenciatura, Maestría, Certificado

CENTROS DE INVESTIGACION: Nodo de Innovación Geotecnológica Espacial
Laboratorio de Ciencia y Tecnología de la Información Geográfica

POSGRADOS OTORGADOS ANUALMENTE: 2

SITIO WEB: <http://facgeografia.uaemex.mx/FacGeo/>

URL DE PROGRAMA EN LINEA: Especialidad en Cartografía Automatizada, Teledetección y SIG
http://facgeografia.uaemex.mx/FacGeo/maestria_cartografia.php
Maestría en Análisis Espacial y Geoinformática
http://facgeografia.uaemex.mx/FacGeo/maeg/index_mae_g.php

PARA PEDIR UN CATÁLOGO Y MÁS INFORMACIONES, FAVOR DE ESCRIBIR A: Marcela Virginia Santana Juárez, Coordinación de Estudios Avanzados, Toluca, Estado de México, Teléfono: 722-215-0255, Fax: 722-214-3182. Correo: geo.inv7@gmail.com

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: La Facultad de Geografía oferta dos programas de Postgrado: uno en el nivel Especialización y uno en el de Maestría.

La Especialidad en Cartografía Automatizada, Teledetección y Sistemas de Información Geográfica (ECATSIG) tiene como objetivo “Formar especialistas en Tecnologías de la Información Geográfica, capaces de proponer, desarrollar y liderar proyectos que contengan aplicaciones especializadas de Cartografía Automatizada, Teledetección y Sistemas de Información Geográfica para la solución de problemas concretos de carácter ambiental, tecnológico y socio-económico”. Es un programa intensivo de entrenamiento de carácter profesionalizante y modalidad presencial de un año de duración, abierto a especialistas de diferentes disciplinas que deseen adquirir el dominio de las tecnologías de la información Espacial. Cuenta con dos líneas de trabajo denominadas “Cartografía automatizada y teledetección, y Sistemas de Información Geográfica”. La titulación es inmediata al término de los estudios, mediante la presentación de un reporte técnico de aplicación de las Tecnologías. La coordinadora del programa es la Dra. Norma Dávila Hernández. Contacto: ecatsig@uaemex.mx

La Maestría en Análisis Espacial y Geoinformática (MAEG) tiene como objetivo “Formar maestros altamente capacitados en geoinformática y análisis espacial para la interpretación, modelación y gestión de las estructuras y procesos que se manifiestan en el espacio geográfico”. Es un programa de Maestría escolarizado y presencial de dos años de duración, abierto a egresados de licenciaturas en geografía y especialidades afines, que deseen adquirir experiencia en el análisis del espacio geográfico y el uso de las geotecnologías para analizar y dar solución a problemas contemporáneos. El programa tiene dos líneas investigación, que son: Geoinformática y Análisis Espacial Socioeconómico, Geoinformática y Análisis Espacial del medio físico. La titulación es mediante presentación y defensa de una tesis en un periodo no mayor a seis meses de la conclusión del programa académico. La coordinadora del programa es la Dra. Xanat Antonio Némiga. Contacto: maegi.uaem@gmail.com

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA:

Para ingresar a la Especialidad en Cartografía Automatizada, Teledetección y Sistemas de Información Geográfica, se requiere título de licenciatura en disciplinas que trabajen con análisis y gestión del territorio. Asimismo, la comisión académica dará prioridad a los candidatos que en sus áreas de trabajo estén relacionados con el uso, diseño o análisis de la cartografía automatizada, la teledetección y los sistemas de información geográfica. Es necesario presentar la documentación pertinente, asistir a una entrevista con el Comité Académico del programa y aprobar el curso de inducción. Mayores informes

El programa consta de dos semestres; en los que se cursan materias de tres áreas académicas. En el área básica se incluyen: Adquisición de datos geoespaciales, Métodos de representación cartográfica, Diseño y estructuración de bases de datos, Introducción a los Sistemas de Información Geográfica, Desarrollo de aplicaciones geotecnológicas. En el área metodológica figuran: Cartografía Automatizada, Programación en ambiente de Sistemas de Información Geográfica, Estadística espacial y geoestadística, Taller de integración de reporte técnico, Tratamiento digital de imágenes satelitales, Documentación y calidad de datos geoespaciales, Análisis y modelación espacial en Sistemas de Información Geográfica, Proyecto terminal. En el área de aplicaciones se encuentra: Seminario de innovaciones geotecnológicas, Gestión de proyectos Geotecnológicos y formación humana, Taller optativo.

Para ingresar a la Maestría en Análisis Espacial y Geoinformática se requiere presentar título de una licenciatura afín a las líneas de investigación del programa, presentar la documentación pertinente, asistir a una entrevista con el Comité Académico del programa y aprobar el curso de inducción así como los exámenes psicométricos y del idioma. Para mayores informes se sugiere consultar la página: http://facgeografia.uaemex.mx/FacGeo/maeg/index_mae_g.php

La estructura curricular de la Maestría está conformada por 17 asignaturas. Las materias se organizan en tres áreas académicas: básica, de aplicación y complementaria. El área básica incluye los temas: Problemas geográficos contemporáneos, Fundamentos de análisis cartográfico y espacial en SIG, Diseño e instrumentación geoinformática, Diseño e implementación de bases de datos geoespaciales, Estadística espacial y geoestadística, Teledetección aplicada, Planeación estratégica y gestión del territorio, Aplicaciones de SIG, Métodos y Técnicas de modelación espacial. El área de aplicación incluye cuatro seminarios de aplicación innovadora del conocimiento y una estancia de vinculación. El área complementaria contempla las siguientes materias optativas: Ecología y biogeografía, Geografía ambiental, Sistemas urbanos y regionales, Geografía económica y social, Manejo integrado de recursos naturales, Gestión integral de riesgos socionaturales, Desarrollo y procesos sociodemográficos, Modelos de análisis socioeconómico, Tratamiento de imágenes ópticas y de radar, Procesos espaciales de geografía

económica, Temas socioeconómicos selectos y Temas selectos de medio ambiente.

Ambos programas se encuentran inscritos en el Padrón Nacional de Postgrados de Excelencia del Consejo Nacional de Ciencia y Tecnología, por lo que ofrecen beca de posgrado nacional de CONAcYT para los alumnos que cumplan con los requisitos pertinentes.

PROFESORES ADSCRITOS A LOS PROGRAMAS DE POSTGRADO:

Doctor en Edafología Miguel Ángel Balderas Plata — Contaminación y degradación de suelos, evaluación de tierras, levantamiento de suelos.

Doctor en Geografía Luis Miguel Espinoza Rodríguez — Geomorfología, geografía del paisaje y riesgos.

Doctor en Ciencias Agropecuarias y Recursos Naturales Jesús Gastón Gutiérrez Cedillo — Evaluación de la sustentabilidad, estudios agroecológicos y regionales.

Doctor en Geografía Juan Campos Alanís — Problemas socioeconómicos espaciales, justicia espacial, equidad, marginación.

Doctor en Geografía Fernando Carreto Bernal — Geografía regional, geografía educativa, Agroecología.

Doctor en Geografía Rodrigo Huitrón Rodríguez — Geografía de las actividades terciarias y Geografía Económica

Doctor en Geografía José Francisco Monroy Gaytán — Geoindustrial, Industria de Innovación y del conocimiento.

Doctora en Derecho de la Empresa Elsa Mireya Rosales Estrada — Capital humano y territorio.

Doctora en Geografía Marcela Virginia Santana Juárez — Geografía de la Salud

Doctor en Ingeniería Roberto Franco Plata — Gestión Integrada del Agua y TIG.

Doctor en Educación Bonifacio Doroteo Pérez Alcántara — Educación, Temas Regionales, industria y Turismo.

Doctor en Geografía Noel Bonfilio Pineda Jaimes — Problemas Forestales aplicando Tecnologías de la Información Geográfica

Maestro en Ciencias Ambientales Leonardo Alfonso Ramos Corona — Aplicación de las tecnologías de la Información Geográfica

Doctora en Manejo de Recursos Naturales. Xanat Antonio Némiga — Geoinformación para el manejo de recursos naturales.

Maestra en Análisis Espacial y Geoinformática María Milagros Campos Vargas — Aplicaciones geotecnológicas en SIG.

Maestro en Ciencias del Agua Luis Ricardo Manzano Solís — Gestión Integral del agua, desarrollo de aplicaciones en SIG.

Doctor en Sociología. Edel Cadena Vargas — Geografía Económica y de la Marginación.

Doctor en Geografía. Emilio Baró Suarez — Gestión de riesgos naturales y desastres.

Dra. en Ciencias Sociales. Brisa Violeta Carrasco Gallegos — Geografía Urbana.

Ing. Sandra Lucía Hernández Zetina — Enseñanza y desarrollo de Tecnologías de la Información Geográfica. ECATSIG.

Lidia Alejandra González Becerril — Cartografía automatizada y diseño cartográfico.

L. PUR. Renata Juilliani Ruiz Gutiérrez — Planificación Urbana Regional y Geografía Industrial.

Maestra en Geografía, Inocencia Cadena Rivera — Geografía de Género

Maestro en Geografía. Efraín Peña Villada — Geografía ambiental y Riesgos naturales

Doctor en Educación. Carlos Reyes Torres — Enseñanza de la Geografía, geografía rural.

Doctora en Ingeniería. Raquel Hinojosa Reyes — Geografía del Transporte.

Doctora en Ciencias de la Tierra. Norma Angélica Dávila Hernández — Interferometría de Radar y SAR en procesos geológicos.

Doctora en Geografía – Patricia Flores Olvera — Geomorfología y riesgo

Doctor en Ciencias de la Tierra – Hector Víctor Cabadas Bdez — Geología y Geomorfología

UNIVERSIDAD AUTÓNOMA METROPOLITANA (UAM), CAMPUS IZTAPALAPA

COORDINATION OF HUMAN GEOGRAPHY PROGRAM

DATE FOUNDED: 2002

DEGREES OFFERED: B.A. in Human Geography; M.A. and Ph.D. forthcoming

MAJORS: Regional and Economic Geography, Cultural Geography, Environmental Studies

HEAD: Dr. Cristóbal Mendoza

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Coordinador de la Licenciatura en Geografía Humana, Dr. Cristóbal Mendoza, Universidad Autónoma Metropolitana Unidad Iztapalapa, San Rafael Atlixco, 186, edificio H, Colonia Vicentina, Delegación Iztapalapa, CP 09340 México DF. Phone: (52-55) 5804 6466. FAX 5804- 4789. E mail: cmp@xanum.uam.mx.

Information also available at:

http://dcsh.izt.uam.mx/licenciaturas/geografia_humana/.

PROGRAMS AND RESEARCH FACILITIES: Faculties members develop research in different fields of Geography. Students are invited to participate in the research projects that are coordinated by our faculties. Computer facilities are opened to geography students, including GIS, quantitative methods. Distance education will be developed soon.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: The admission exam are held annually in the period March-July. Every September, a new generation of students start Geography on a trimester-based program- The program consists of 12 trimesters. Ordinary trimesters have 4-5 courses of 4 weekly hours each. Foreign language (English and French) are integrated in the syllabus as compulsory courses. After trimester 8th, students choose specialization among three possible options: (i) City and culture, (ii) regional and economic geography; (iii) environmental studies. Optional courses are available in different schools, as engineering, biology, other social science disciplines, etc. Financial aid is available through official programs (UAM-Federal Ministry of Education). Exchange mobility programs are opened to students of other Latin American universities.

FACULTY (Basic Staff):

Full-time (alphabetical order)

Ludger Brenner, Ph.D., Universität Trier — geography of tourism, environmental governance, environmental studies.

Martín Checa-Artasu, Doctor Ph.D., University of Barcelona, Spain — local economic development, urban geography.

Armando García Chiang, Ph.D., University of Sorbonne, France — economic geography, regional planning, political geography, geography of Mexico.

Adrián Hernández Cordero, Ph.D., Autonomous University of Barcelona — epistemology of geography, cultural geography, urban geography.

Alicia Lindón, Ph.D., El Colegio de México, México — epistemology of geography, cultural geography, urban geography and qualitative methods.

Cristobal Mendoza, Ph.D., Kings College, London — geography of population, migration studies, quantitative methods. (Coordinator).

Rocio Rosales, Ph.D., National Autonomous University of Mexico (UNAM) — economic geography, regional planning, local economic development, political geography and geography of Mexico.

Paula Soto, Ph.D., Catholic University of Chile — urban geography, cultural geography, qualitative methods, gender studies.

Pedro Sunyer, Ph.D University of Barcelona, Spain — geography and history, epistemology of geography.

Part-time

Víctor Hugo Aquino Illescas, M.A., Metropolitan Autonomous University — environmental studies, cartography, GIS.

COMPLEMENTARY STAFF:

Faculty from other disciplines are working on a partial time basis. Their orientations range from social psychology, cartography, GIS and remote sensing to anthropology, sociology, history, or economy. Occasionally foreign teachers are integrated temporarily for specific teaching and research activities.

UNIVERSIDAD DE GUADALAJARA

DEPARTAMENTO DE GEOGRAFÍA Y ORDENACIÓN TERRITORIAL

DATE FOUNDED: 1980

DEGREES OFFERED: Licenciatura en Geografía, Maestría en Desarrollo Local y Territorio y Diplomado en Geomática y Gestión del Territorio

HEAD: Hirineo Martínez Barragán, Mtro

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Departamento de Geografía y Ordenación Territorial, División de Estudios Históricos y Humanos de la Universidad de Guadalajara, Av. De los Maestros y Mariano Bárcena CP 44260, Guadalajara, Jalisco, México. Tel. y fax (399) 3819-3381 y 3819-3386. E-mail geografia.extension@csh.udg.mx www.geografia.cucsh.udg.mx

PROGRAMS AND RESEARCH FACILITIES: El plan de estudios de licenciatura responde a las condiciones actuales del conocimiento geográfico y a la problemática que afecta a los territorios especialmente de Jalisco y del Occidente de México. Asimismo, este plan tiene como referente teórico la educación basada en competencias profesionales; con este enfoque se forma a los alumnos desde una perspectiva amplia y se olvida de una especialización muy concreta; se ofrecen los conocimientos básicos para desarrollar destrezas y habilidades que les permitan desempeñarse laboralmente en las áreas que el desarrollo económico de los territorios y las nuevas tecnologías demandan, como son: la detección de riesgos ambientales, la representación cartográfica, los sistemas de información geográfica, el ordenamiento territorial, la conservación de los recursos, la calidad de vida y el desarrollo sustentable, entre otros. El contenido del Diplomado está estructurado en módulos que garantizan un acercamiento al conocimiento de las ciencias de la representación terrestre y a la utilización de las nuevas tecnologías en la aplicación práctica de un problema en específico; considera dos salidas de campo; la primera para el reconocimiento y recopilación de información del área piloto; y la segunda, para la verificación de los resultados obtenidos de la aplicación del sistema de información geográfica del área piloto, y con esto realizar el ejercicio de gestión del territorio. El objetivo principal de la Maestría es formar profesionistas expertos en analizar, gestionar y ofrecer soluciones a los problemas derivados del desarrollo local en su relación con territorios específicos, así como de la dinámica del desarrollo territorial, en la construcción de escenarios actuales y futuros.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

La Licenciatura en Geografía inició en marzo de 1980. El plan de estudios opera en sistema semestral de créditos y con el enfoque de competencias profesionales. Entre las competencias se tienen cuatro: Cartografía, Investigación, Gestión del Territorio y Docencia. El diplomado se ofrece a instituciones interesadas en capacitar a sus colaboradores en el conocimiento y aplicación de los Sistemas de Información Geográfica, con un total de 175 horas. La Maestría inició en 2000, trabaja con un programa escolarizado, tutorial y generacional, mismo que tiene una duración de cuatro semestres (2 años), con énfasis en desarrollo en sociedades locales, regionalización, planificación estratégica y territorio. Consultar requisitos de admisión en la página: www.escolar.udg.mx

FACULTY:

Bertha Márquez-Azúa, Dr., Ministerio de la Universidad y de la Investigación Científica y Tecnológica, Italia, 1993, Profesor-Investigador titular "C", Perfil Promep, Investigador Nacional Nivel I — deformación de la corteza terrestre, mediciones por GPS, tectónica, vulcanismo, percepción del riesgo

Andrzej Zeromski-Kaczmarek, Dr., Academia de Ciencias de Polonia, 1981, Profesor-Investigador titular "C" — geografía humana, desarrollo sustentable, ordenamiento territorial

Luis Felipe Cabrales Barajas, Dr., Universidad Complutense de Madrid, 1996, Profesor-Investigador titular "C", Perfil Promep, Investigador Nacional Nivel I — ordenamiento territorial, segregación urbana, estudios de aspectos sociales y funcionales de centros históricos desarrollo local y regional

Miguel Cházaro-Basañez, Dr., Universidad de Guadalajara, Profesor-Investigador titular "C", Perfil Promep — taxonomía botánica

Heriberto Cruz-Solis, Dr., Universidad de Alcalá, España, 1998, Profesor-Investigador titular "B", Perfil Promep, Investigador Nacional Nivel I — sistemas de información geográfica, cartografía y teledetección

Ruth Miranda-Guerrero, Dr., Universidad de Alcalá, España, 2002, Profesor Investigador titular "A", Perfil Promep, Investigador Nacional Nivel I — atlas, sistemas de información geográfica y cartografía

Raúl Acevedo-Rosas, Dr., Instituto de Ecología, A. C., 2003, Perfil Promep, Profesor-Investigador titular "A" — biogeografía y sistemática vegetal

Juan Carlos Sustay-Delgado, Dr., Universidad de Guadalajara, 2005, Profesor-Investigador asociado "B" — ordenamiento territorial, planeación de la educación

José de Jesús Torres Contreras, Dr., Universidad de Guadalajara, 2007, Profesor-Investigador titular "B" — geografía rural

Elba Lomeli-Mijes, candidato a Dr., Universidad del Valle de Atemajac, Profesor-Investigador titular "B" — educación

Javier Rentería Vargas, candidato a Dr., El Colegio de Jalisco, Profesor de carrera titular "B" — planificación urbana y regional, ordenación del territorio, geografía electoral y teoría de la geografía

Pedro Méndez-Guardado, Estudiante de Dr., Universidad de Guadalajara, Profesor-Investigador titular "B", Perfil Promep — ecología, recursos naturales, economía ambiental, ambiente y desarrollo

Hirineo Martínez-Barragán, Estudiante de Doctorado en Ciencias Sociales, Profesor-Investigador titular "B", Perfil Promep — límites territoriales

Margarita Anaya-Corona, estudiante de Dr., Universidad Nacional Autónoma de México, Profesora-Investigadora Titular "A" Nivel I — medio ambiente, calidad de vida

Lucía González-Torres, Dra, Universidad de Guadalajara, 2010, Perfil Promep, Profesor-Investigador titular "A" — turismo, desarrollo local

María Teresa Rentería-Rodríguez, estudiante de Dr., Universidad Complutense de Madrid, Profesora-Investigadora asociado "A" — geografía social

Carlos Suárez-Plascencia, Estudiante de Dr. Centro de Investigaciones Educación Superior, Profesor-Investigador titular "A", Perfil Promep — riesgos

Juan Pablo Corona Medina, M.C. Universidad de Colima, Profesor-de asignatura — sistemas de información geográfica, geomática

Rosa Olivia Contreras-Urbe, M.C., Universidad de Alcalá, España., Profesor de asignatura — sistemas de información geográfica, cartografía

Juan Gallardo-Valdéz, M.C., Universidad de Guadalajara, 2005, Profesor de asignatura — salud ambiental, salud pública, contaminación

Mónica González-López, M.C., Universidad de Alcalá, España., Profesora de asignatura — cartografía, sistemas de información geográfica, teledetección

María Dolores Andrade-García, Estudiante de Doctorado, Universidad de Guadalajara, 2004, Perfil Promep, Profesora-Investigadora asistente "C"— salud pública y cartografía

Martín Vargas-Inclán, M.C., Universidad de Guadalajara, 2005, Profesor- Investigador asistente "C" — desarrollo local, suelos

J. Hildelgado Gómez- Sención, M.C., Universidad de Guadalajara, 2006, Profesor-Investigador asociado "A" — desarrollo local

Abel Hugo Ruíz-Velázco Castañeda, M.C., Universidad de Guadalajara, 2005, Perfil promep Profesor-Investigador titular "A" — desarrollo local

Fernando Zaragoza-Vargas, M.C., Universidad de Alcalá, Profesor-Investigador asociado "A" — cartografía, teledetección, sistemas de información geográfica

Leticia Loza-Ramírez, M.C., Universidad de Guadalajara, 2003, Profesor- Investigador titular "A" — climatología

Rosalba Castañeda-Castro, M.C., Universidad de Guadalajara, 2006, Profesordocente asociado "B" — docencia, antropológica social, ciencia de la educación, epistemología de la geografía

Mercedes Arabela Chong-Muñoz, M.C., Universidad de Guadalajara, 2002, Profesor-Investigador titular "A" — antropología social

Antonio González Salazar, M.C., Universidad de Guadalajara, 2002, Profesor- Investigador titular "A" — climatología

Ruben Alfonso Rodríguez-Vera, M.C., Universidad de Guadalajara, 2004, Perfil promep, Profesor-Docente titular "B" — desarrollo local, legislación, gestión y ordenamiento territorial

Gustavo Saavedra de la Cruz, M.C., Universidad de Guadalajara, 2004, Profesor-Investigador titular "A" — desarrollo local, riesgos y ordenamiento territorial

Armando Chávez-Hernández, M.C., Universidad de Complutense de Madrid, Profesor-Investigador titular "A" — paisaje

Francisco Copado-González, M.C., Universidad de Guadalajara, Profesor- Investigador asociado "C" — suelos

María del Rocío Castillo-Aja, M.C., Universidad de Guadalajara, 2006, Perfil promep, Profesor-Docente asociado "C" — riesgos, sistemas de información geográfica

María Evangelina Salinas-Escobar, M.C., Universidad de Guadalajara, 2001, Profesor-Investigador titular "B", Perfil Promep — geografía de la población, desarrollo social y trabajo, ordenamiento territorial

Juan de Dios Robles-Pastrana, M.C., Universidad de Guadalajara, 2006, Profesor- Docente asociado "C"

Katia Magdalena Lozano-Uvario, estudiante de Dr., Universidad Nacional Autónoma de México, Profesor-Investigador titular "A", Perfil Promep

Catherine Annick Liot, Dr. Universidad de París, Francia, Profesor-Investigador titular "A", Investigador Nacional, SNI — arqueología

Armando Juárez, M.C., Universidad de Ciudad Juárez, 2004, Profesor-Investigador titular "A" — suelos

Serafin Maldonado-Aguirre, candidato a Doctor., Universidad de Puebla, Profesor- Investigador titular "A" — territorio, región, geografía económica

Ma. del Carmen Macías-Huerta, M.C., Universidad Veracruzana, 1992, Profesor- Investigador titular "C", Perfil Promep — desarrollo regional

Rosa María Sandoval-Sandoval, Candidata a Doctora., Universidad de Guadalajara, 2004, Técnico-Académico asociado "C" — pedagogía y didáctica de la geografía

Luis Valdívía-Ornelas, Cand. M.C., Universidad Nacional Autónoma de México, Profesor-Investigador titular "A" — geomorfología y riesgos

Julián Alberto Flores-Díaz, Candidato a M.C., Universidad de Guadalajara, 2004, Profesor-Investigador asociado "C" — geología

José Fernando Rico-Román, Candidato a Maestro, Universidad de Guadalajara, Profesor-Investigador asistente "C" — educación

Guadalupe Quezada-Chico, Ingeniero Agrónomo, Universidad de Guadalajara, 1993, Profesor-Investigador asistente "C" — suelos

Luz Alejandra Martínez-Castillo, Licenciatura, Universidad de Guadalajara, Profesor de asignatura — cartografía

Moisés, Pérez Muñoz, Ingeniero Civil, 1992, Universidad de Guadalajara, Profesor-Docente titular "B" — cartografía, hidráulica, matemáticas

UNIVERSIDAD NACIONAL AUTÓNOMA DE MÉXICO

COORDINACIÓN DEL PROGRAMA DE POSGRADO EN GEOGRAFÍA
FACULTAD DE FILOSOFÍA Y LETRAS – INSTITUTO DE GEOGRAFÍA

ESTRUCTURA ACTUAL DEL PROGRAMA DE POSGRADO EN GEOGRAFÍA APROBADA:
 Diciembre de 1998

GRADOS QUE SE OTORGAN: Maestro en Geografía y Doctor en Geografía

ALUMNOS EN LA MAESTRÍA: 50

ALUMNOS EN EL DOCTORADO: 36

COORDINADORA ACTUAL: Dra. Laura Elena Maderey Rascón

ASISTENTE ACTUAL: Lic. Macario Arredondo Romero

PARA MAYOR INFORMACIÓN Y SOLICITUD DE CATÁLOGO ESCRIBIR A: Coordinación del Programa del Posgrado en Geografía. Facultad de Filosofía y Letras. Universidad Nacional Autónoma de México (UNAM). Ciudad Universitaria, C. P. 04510. Delegación Coyoacán, D. F., México. Teléfono (5255) 55-50-69-75. Correo electrónico: geografia@correo.posgrado.unam.mx Internet: www.igeograf.unam.mx/posgrado/.

PROGRAMA DE INVESTIGACION (My D): En la impartición de los Programas de Maestría y Doctorado en Geografía figuran como entidades participantes El Colegio de Geografía, el Instituto de Geografía y el Centro de Investigaciones en Geografía Ambiental (CIGA), todos de la Universidad Nacional Autónoma de México (UNAM).

La Maestría tiene tres campos de conocimiento vigentes y dos nuevos en proceso de aprobación. Los vigentes son Sociedad y Territorio, Ordenamiento Territorial y Geografía Ambiental y los nuevos, Manejo Integral del Paisaje (MIP, que se imparte en la sede del CIGA en la Ciudad de Morelia) y Geomática. El Plan de Estudios está formado por 14 cursos en promedio y 90 créditos en total. Hay variaciones entre los distintos campos de conocimiento, pues mientras que el del MIP se sigue un formato de cursos intensivos, en los otros campos de conocimiento los cursos son semestrales. Después de aprobar los cursos, se debe defender y aprobar una tesis ante un jurado de cinco sinodales pero existen otras modalidades de titulación, como

la presentación de un examen de conocimientos, por Informe Académico y otros que están actualmente en revisión.

Por su parte, el Doctorado sigue un formato tutorial, en el cual el estudiante realiza una investigación bajo la supervisión de un tutor y un Comité Tutor con otros dos sinodales más. Para obtener el grado, se debe aprobar un examen de candidatura entre el cuarto y quinto semestre, publicar avances de la investigación en revistas indizadas o en capítulos de libro dictaminados y es factible realizar una estancia de investigación hasta por un año en otra institución nacional o internacional de prestigio, con el aval de su tutor. Por último, el doctorando defiende una tesis escrita ante un jurado formado por cinco sinodales de los cuales, dos son preferentemente externos al Programa.

En ambos caso, es deseable que el estudiante se incorpore a un proyecto de investigación que realice su tutor.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: El programa de Maestría se realiza en dos años y el de Doctorado en cuatro. La convocatoria de ingreso se publica a principios de cada año, el proceso de selección dura, aproximadamente tres meses y quienes son aceptados, inician sus estudios en el mes de Agosto del mismo año.

Los requisitos de admisión en Maestría son contar con un título en Geografía o disciplinas afines (Biología, Sociología, Ecología o Economía, entre otras), un promedio mínimo de ocho (8) o su equivalente en países que evalúan en una escala diferente del 1 al 10, presentar un protocolo de investigación, en el cual la dimensión geográfica del problema por investigar es relevante. El protocolo deberá estar avalado por un tutor del Posgrado, mismo que debe obtener dos de tres dictámenes positivos. También se debe aprobar un examen de conocimientos y una entrevista personal y presentar un examen psicométrico.

Para ingresar al Programa de Doctorado se requiere contar con un título de Maestría en Geografía o disciplinas afines, presentar y aprobar un protocolo de investigación avalado por un tutor del Programa y una entrevista personal y presentar un examen psicométrico.

En ambos caso, los aspirantes extranjeros, deberán realizar los trámites correspondientes ante el Instituto Nacional de Migración de la Secretaría de Relaciones Exteriores.

Los aspirantes que son aceptados en el Programa, son postulados para obtener una beca del Gobierno de México a través del Consejo Nacional de Ciencia y Tecnología (CONACYT) en donde se decide su otorgamiento. También existe la posibilidad de obtener becas complementarias para realizar una estancia corta de investigación en otros Programas de calidad, dentro o fuera del país, a través de CONACYT y de la propia UNAM.

TUTORES

Aceves García, Mauricio, Maestro en Geografía — Fotointerpretación.
Aguilar Martínez, Adrián Guillermo, Doctor en Filosofía, University College, Universidad de Londres, Gran Bretaña — Geografía urbana y regional.
Aguirre Gómez, Raúl, Doctor en Ciencias, University of Southampton, Inglaterra — Percepción remota marina.
Alcántara Ayala, Irasema, Doctora en Filosofía, University of London, King's College London — Peligro, vulnerabilidad y riesgos.
Astier Calderón, Marta, Doctora en Ciencias Biológicas, UNAM. Facultad de Ciencias — Agricultura ecológica.
Bautista Zúñiga, Francisco, Doctor en Ciencias Biológicas, UNAM. Facultad de Ciencias — Geoquímica ambiental.
Bocco Verdinelli, Gerardo, Doctor en Ciencias Geográficas, Universidad de Amsterdam — Geografía ambiental.

Bollo Manent, Manuel, Doctor en Geografía, Facultad de Geografía Universidad Estatal de Moscú — Geoecología del paisaje.
Burgos Tornadú, Ana Laura, Doctora en Ciencias Biológicas, Posgrado en Ciencias Biológicas. UNAM — Sistemas ambientales complejos.
Bustos Trejo, Gerardo, Doctor en Historia, UNAM — Geografía histórica.
Calderón Aragón, Georgina, Doctora en Geografía, UNAM — Geografía social.
Carrillo Rivera, Joel, Doctor en Filosofía, Universidad de Londres, Gran Bretaña — Hidrogeología.
Casado Izquierdo, José María, Doctor en Geografía, UNAM — Cartografía temática y ordenamiento territorial.
Chias Becerril, Luis, Doctor en Geografía, Université de Toulouse, Francia — Geografía del transporte.
Coll-Hurtado Oliva, María Francisca Atlántida, Doctora en Geografía, UNAM — Geografía histórica y económica de México.
Commons de la Rosa, Áurea Carlota, Doctora en Geografía, UNAM — Geografía histórica.
Correa Pérez, Genaro, Doctor en Geografía, UNAM — Geografía física y económica
Cram Heydrich, Silke, Doctora en Ciencias, Universidad Agrícola de Hohenheim, Stuttgart, Alemania — Contaminación y degradación de suelos.
De La Vía, Alejandra Larrazabal, Maestra en Información de suelos para el manejo de los recursos naturales — SIG participativo.
Delgado Campos, Genaro Javier, Doctor en Urbanismo, UNAM — Interfase urbano regional.
Echanove Huacuja, Flavia, Doctora en Ciencias Antropológicas, Universidad Autónoma Metropolitana — Geografía agrícola de México.
Espinoza Rodríguez, José Manuel, Maestro en Geografía, UNAM — Geografía ambiental, biogeografía y recursos naturales.
Fernández Christlieb, Federico, Doctor en Geografía, Université de Paris IV, Sorbonne, Paris, Francia — Geografía cultural.
Galicia Sarmiento, Leopoldo, Doctor en Ecología, UNAM — Ecología del paisaje.
García de León Loza, Armando, Maestro en Geografía — Geografía cuantitativa aplicada, análisis urbano y regional.
García Romero Arturo, Doctor en Geografía, Universidad Complutense de Madrid, España — Geoecología del paisaje.
Garibay Orozco, Claudio, Doctor en Ciencias Sociales, CIESAS — Paisajes mineros.
Garza Merodio, Gustavo Gerardo, Doctor en Geografía, Universidad de Barcelona, España — Geografía histórica.
Gómez Mendoza, Leticia, Doctora en Geografía, UNAM — Cambio climático y efectos en el ecosistema.
Gómez Rey, Patricia, Doctora en Geografía, UNAM — Geografía histórica.
Gómez Rodríguez, Gabriela, Maestra en Ciencias, UNAM — Prospección de recursos naturales mediante SIG y PR.
Gómez Rojas, Juan Carlos, Doctor en Geografía, UNAM — Agroclimatología y geografía cultural.
Gutiérrez Vázquez, María Teresa, Doctora en Geografía, Universidad de Paris Sorbona — Geografía urbana-regional.
Hernández Cerda, Ma. Engracia, Doctora en Ciencias, UNAM — Hidroclimatología.
Hernández Santana, José Ramón, Doctor en Ciencias Geográficas, Instituto de Ciencias, ex URSS — Geomorfología.
Ibarra García, Verónica, Doctora en Geografía, UNAM — Geografía política.
Jiménez Ortega, Jorge, Doctor en Geografía — Recursos naturales, Áreas Naturales Protegidas y actores sociales.
Juárez Gutiérrez, María del Carmen, Doctora en Geografía, UNAM — Geografía de la población.
Legorreta Paulín, Gabriel, Doctor en Geología, Universidad de Búfalo, USA — Peligro, vulnerabilidad y riesgos.
López García, José, Doctor en Ciencias con especialidad en Biología, UNAM — Geografía de la población y ambiente.

López Levy, Liliana, *Doctora en Geografía — Geografía cultural.*
 López López, Álvaro, *Doctor en Geografía, UNAM — Geografía de género.*
 Lugo Hubp, José Inocente, *Doctor en Ciencias Geológicas, Universidad Estatal de Moscú, Lomonosov, Moscú — Geomorfología volcánica y antrópica.*
 Maderey Rascón, Laura Elena, *Doctora en Geografía, UNAM — Hidrogeografía.*
 Martínez Luna, Víctor Manuel, *Maestro en Geografía — Hidrogeografía, geografía física y geomorfología de cuencas pequeñas.*
 Mas Caussel Jean Francois, *Doctor en Ciencias Geográficas, Universidad Paul Sabatier, Toulouse, Francia — Percepción remota.*
 McCall Keith, Michael, *Doctor en Geografía, Northwestern University, Evanston IL, USA — Mapeo participativo-SIG.*
 Mendoza Cantú, Manuel Eduardo, *Doctor en Ciencias de la Tierra, UNAM — Instituto de Geofísica, Manejo de cuencas.*
 Mendoza Vargas, Héctor, *Doctor en Geografía, Universidad de Barcelona, España — Geografía histórica.*
 Moncada Maya, José Omar, *Doctor en Geografía, UNAM — Geografía histórica.*
 Morales Manilla, Luis Miguel, *Maestro en Ciencias — Cartografía y SIG.*
 Morales, Jaime, *Licenciado en Geografía — Estadística aplicada.*
 Navarrete Pacheco, José Antonio, *Maestro en Ciencias de la Geo-información y Observación de la Tierra — Peligros y riesgos naturales.*
 Olivera Martínez, Patricia, *Doctora en Geografía, UNAM — Geografía urbana.*
 Oropeza Orozco, Oralia, *Maestra en Ciencias, Vulnerabilidad y riesgos naturales — Actores sociales.*
 Ortiz Álvarez, María Inés, *Doctora en Geografía, UNAM — Geografía de la población.*
 Ortiz Pérez, Mario Arturo, *Doctor en Geografía, UNAM — Geomorfología estructural.*
 Osorno Covarrubias, Javier, *Maestro en Ciencias de la Computación, Ciencia y tecnología de la información geográfica.*
 Padilla y Sotelo, Lilia Susana, *Doctora en Geografía, UNAM — Geografía de la población y del ambiente.*
 Palacio Prieto, José Luis, *Doctor en Geografía, UNAM — Geomorfología ambiental.*
 Pensado Leglise, María de los Ángeles, *Maestra en Geografía, UNAM — Geografía de la educación.*
 Priego Santander, Angel Guadalupe, *Doctor en Ecología y Manejo de Recursos Naturales, Instituto de Ecología, Xalapa. Veracruz, México — Geoecología del paisaje.*
 Propin Frejomil, Enrique, *Doctor en Filosofía, Universidad Karl Max, Leipzig República Democrática Alemana — Geografía económica.*
 Quintero Pérez, José Antonio, *Maestro en Ciencias, Análisis Espacial — Infraestructura de datos espaciales.*
 Ramírez Herrera, María Teresa, *Doctora en Ciencias Geológicas, The University of Edinburgh, United Kingdom — Dinámica y evolución del relieve.*
 Ramírez Ramírez, Isabel, *Doctora en Geografía, Facultad de Geografía e Historia. Universidad Complutense de Madrid — Dinámica de la vegetación.*
 Reyna Trujillo, Teresa de Jesús, *Doctora en Ciencias, UNAM — Biogeografía.*
 Salmerón García, Olivia, *Maestra en Urbanismo, UNAM — Percepción remota y urbanización.*
 Sámano Pineda, Carmen, *Maestra en Geografía, UNAM — Geografía de la educación.*
 Sánchez Crispín, Álvaro, *Doctor en Filosofía, Universidad de Londres, Gran Bretaña — Estructura territorial de la economía.*
 Sánchez Salazar, María Teresa, *Doctora en Geografía, UNAM — Ordenamiento territorial.*
 Skutsch, Margaret, *Doctora en Geografía, University of Twente in the Netherlands — Manejo forestal comunitario.*

Suárez Lastra, Manuel, *Doctor en Geografía, UNAM — Estructura urbana y transporte.*
 Urquijo Torres, Pedro Sergio, *Maestro en Historia — Historia ambiental.*
 Vázquez Selem, Lorenzo, *Doctor en Geografía, Universidad Estatal de Arizona, EUA — Geomorfología, geomorfología volcánica y dendrocronología.*
 Velásquez Montes, José Alejandro, *Doctor en Ecología del Paisaje, Universidad de Ámsterdam — Ecología del paisaje.*
 Vieyra Medrano, José Antonio, *Doctor en Geografía, Facultad de Geografía e Historia. Universidad Complutense de Madrid — Geografía urbana.*
 Winton Ailsa, Margaret Anne, *Doctora en Geografía, Universidad de Londres, Gran Bretaña — Geografía de la pobreza urbana y la vulnerabilidad social.*
 Zamorano Orozco, José Juan, *Doctor en Filosofía, Universidad Estatal de Moscú, M.V. Lomonosov — Peligro, vulnerabilidad y riesgos.*
 Zavala Vaca, Hugo, *Maestro en tecnologías de la información — SIG.*

NICARAGUA

UNIVERSIDAD NACIONAL AUTÓNOMA DE NICARAGUA, MANAGUA

UNAN – MANAGUA
RECINTO UNIVERSITARIO “RUBÉN DARÍO”
FACULTAD DE HUMANIDADES Y CIENCIAS
JURÍDICAS
DEPARTAMENTO DE GEOGRAFÍA
GRADO OFRECIDO: Licenciado en Geografía
DIRECTOR: Magister Ramón Dávila José
E-MAIL: radav_2004@yahoo.com /
depto_geografia@unan.edu.ni

Programa de Licenciatura en Geografía

El Departamento de Geografía como unidad académica perteneciente a la UNAN-Managua, brinda y aporta a la sociedad Nicaragüense la formación de profesionales geógrafos con capacidad para comprender, relacionar y aplicar los aspectos fundamentales de la ciencia geográfica, fomentando en ellos el compromiso social hacia el desarrollo aplicación de valores éticos, morales, humanistas, en defensa y protección del medio ambiente, los que les permitirá tomar decisiones adecuada para solucionar los problemas generados de la relación hombre-naturaleza.

El Departamento de Geografía cuenta con un cuerpo docente que enseña la Carrera de Geografía a nivel de Pregrado, Educación Continua y Posgrado, realizando investigaciones y extensión universitaria, tal como lo plantea la Misión y Visión de nuestra institución y nos enfocamos en cinco líneas de investigación las cuales están dirigidas a:

- El estudio sobre los Potenciales Turísticos que presenta el Territorio Nacional.
- El análisis de las condiciones medioambientales de las localidades.
- Estudios sobre la problemática de la enseñanza y aprendizaje de la ciencia geográfica.
- Las condiciones socioeconómicas presentadas por las poblaciones urbanas y rurales de Nicaragua.

- El Aspecto Físico –Geográfico de las diferentes regiones del país.
- Estudio sobre el espacio geográfico y el ordenamiento territorial nicaragüense.

El Perfil del Licenciado en Geografía comprende las siguientes competencias profesionales:

- Geógrafo-Investigador
- Capacitador Geográfico
- Promotor para la Protección y Conservación del Medio Ambiente
- Promotor de la prevención de Catástrofes Naturales y Sociales
- Planificador y Ordenador Territorial
- Formador y Evaluador de Proyectos
- Gestor del Desarrollo Comunitario
- Planificador y Gestor de los Sistemas de Información Geográfica

PROFESORES:

Claustro Docente que Integran el Departamento de Geografía de la UNAN – Managua.

Blandón Chavarría Lissette Carolina, Licenciada en Geografía UNAN – Managua.

Cortés Castillo Lidia María, Licenciado en Ciencias Sociales, UNAN – Managua, Maestría en Didáctica Especial, U.A.B. España.

Brenes Cano Francisca Amparo, Licenciado en Ciencias Sociales, UNAN – Managua, Maestría en Población y Medio Ambiente, U.A.B. España.

Dávila José Ramón, Licenciado en Ciencias Sociales, UNAN – Managua, Maestría en Didáctica Especial, UNAN - Managua.

D Trinidad Almanza Ana María, Licenciada en Geografía UNAN – Managua.

Delgado Alemán Dimas Antonio, Licenciado en Ciencias Sociales, UNAN – Managua, Maestría en Metodología de la Investigación, U.A.B. España.

Espinoza Rivera Samanta María, Licenciada en Geografía UNAN – Managua.

Jirón García Alfonso, Licenciado en Ciencias Sociales, UNAN – Managua, Maestría en Metodología de la Investigación, U.A.B. España.

Mena García Bertha Adilia, Licenciado en Ciencias Sociales, UNAN – Managua, Maestría de Ciencias en Geografía, WKU-USA, Wester

Picado Juárez Eduardo, Licenciado en Ciencias Sociales, UNAN – Managua, Maestría en Medio Ambiente, U.A.B. España.

Rivas Rivas Enrique Ernesto, Licenciado en Geografía UNAN – Managua.

Úbeda Trujillo Ingrid Elizabeth, Licenciada en Geografía UNAN – Managua.

PANAMA

UNIVERSIDAD AUTONOMA DE CHIRIQUI

**FACULTAD DE HUMANIDADES
DEPARTAMENTO DE GEOGRAFÍA
FUNDADO EN: 1974**

DIRECTOR: Magíster Rodrigo Martínez

PARA MAYOR INFORMACIÓN: Magíster Rodrigo Martínez, Universidad Autónoma de Chiriquí, Facultad de Humanidades, Departamento de Geografía, Estafeta Universitaria, República de

Panamá, Provincia de Chiriquí, Ciudad de David Teléfonos (507) 774-5194, Extensión 111, Correo Electrónico: rodmart1@hotmail.com.

LICENCIATURAS: Licenciatura en Geografía e Historia, Licenciatura en Recursos Naturales, Licenciatura en Turismo con dos énfasis: 1) Turismo Ecológico, 2) Turismo en Hotelería y Restaurante

MAESTRÍAS: Maestría en Geografía, Maestría en Recursos Naturales, Maestría en Turismo

PROGRAMA DE LICENCIATURA EN GEOGRAFÍA E HISTORIA

Director: Magíster Rodrigo Martínez

Esta carrera ofrece las bases para obtener una clara comprensión del medio geográfico integralmente, la superficie terrestre y sus regiones constitutivas, así como también la interacción existente entre ese medio y la vida humana con sus acontecimientos a través de los distintos períodos históricos. El estudio de la Geografía va asociado al de Historia y en su estructuración aparece igual número de asignaturas y créditos para ambas disciplinas, cuyo plan de Estudio lo integra Lengua y Literatura Española, Panamá en el Mundo Americano, Introducción a la Filosofía, Introducción a las Ciencias Naturales, Inglés, Francés, Introducción a las Ciencias Políticas, Principios de Geografía, Principios de

Sociología, Geografía Matemática, Geografía Humana I y II, Geografía Física I y II, Introducción a la Cartografía, Geografía Política, Metodología y Técnica de la Investigación Geográfica, Geografía Regional de Panamá, Geografía Regional de América, Geografía Regional de Eurasia, África y Oceanía, Relaciones de Panamá y Estados Unidos, Historia de Oriente, Grecia y Roma, Antropología, Prehistoria de Panamá, Historia de la Época Hispánica, Etnografía de Panamá, Historia de la Edad Media, Historia de Panamá Unión a Colombia, Historia de Panamá Época Republicana, Historia Moderna, Historia Contemporánea, Historia de las Ideas en América y Trabajo de Graduación.

PROGRAMA DE LICENCIATURA EN RECURSOS NATURALES

Directora: Magíster Janeth Valenzuela

La Licenciatura en Recursos Naturales está amparada por la Idoneidad Profesional que le ha sido otorgada por el Consejo Técnico Nacional de Agricultura, lo cual le permite a los egresados de esta importante carrera, ejercer en todo el territorio nacional. El programa comprende: Química Básica, Biología General, Cálculo Diferencial, Informes, Inglés Técnico, Historia de Panamá, Geografía de Panamá, Introducción al Análisis Químico, Bioestadística, Recursos Naturales de Panamá, Metodología de la Investigación Científica, Ecología Humana y Ambiental, Informática, Mediciones Forestales, Biometría de los Recursos Naturales, Ecosistemas Costeros, Manejo de Áreas Silvestres, Agroecosistemas, Planificación de Aguas y Riego, Silvicultura, Transferencia y Extensión Ambiental Comunitaria, Inventario y Evaluación de Recursos Naturales, Agroforestería, Manejo de Agroquímicos, Contaminación Ambiental, Geografía Física, Producción Forestal, Gestión Administrativa Aplicada a los Recursos Naturales, Educación Ambiental, Fuentes Alternas de Energía, Economía Agrícola, Estudios de Impacto Ambiental, Mitigaciones Ambientales, Valoración y Sostenibilidad de los Recursos Naturales, Biodiversidad, Legislación de los Recursos Naturales, Formulación y Proyectos Ambientales y Trabajo de Graduación.

PROGRAMA DE LICENCIATURA EN TURISMO

Directora: Magíster Luis Hervey

El programa comprende: Introducción al Turismo, Informática aplicada al Turismo, Inglés Conversacional, Redacción y Elaboración de Informes, Biología General, Educación Física, Geografía de Panamá, Geografía Turística Mundial, Contabilidad Fundamental, Geografía Turística de Panamá, Métodos y Técnicas de Investigación., Historia de Panamá, Admón. de Empresas Turísticas, Cartografía

Digital, Admón. de Recursos Humanos, Planificación Elaboración y Evaluación de Proyectos Turísticos, Sistema de Información Geográfica, Mercadeo Turístico, Sociología Turística, Geografía Económica, Relaciones Humanas, Agroturismo, Promoción Turística.

ENFASIS EN TURISMO ECOLOGICO

Manejo de Parques y Áreas Silvestres, Ecología de Panamá, Legislación Turística, Fitogeografía, Zoogeografía, Inglés Conversacional IV, Trabajo de Graduación.

ENFASIS EN HOTELERIA Y RESTAURANTE

Gastronomía y Bebidas, Inglés Conversacional IV, Admón. de Agencias de Viajes, Administración Hotelera, Relaciones Públicas Aplicadas al Turismo, Administración de Restaurantes, Itinerarios y Transporte, Tecnología de Hospedaje, Trabajo de Graduación.

MAESTRÍAS:

PROGRAMA DE MAESTRÍA EN MANEJO Y CONSERVACIÓN DE LOS RECURSOS NATURALES Y DEL AMBIENTE.

Coordinadora: Magíster Janeth Valenzuela.

Busca elevar el nivel académico e investigativo de los docentes y profesionales en ejercicio mediante la adquisición de metodología y técnicas en el Manejo Conservación de los Recursos Naturales y del Ambiente. El programa comprende: Agroecología Avanzada, Metodología de la

Investigación Científica, Experimentación Avanzada, Legislación Ambiental, Sistema de Información Geográfica Aplicada al Manejo de los Recursos Naturales, Biogeografía Neotropical, Contaminación Ambiental, Manejo de Suelos y Agua, Manejo de Vida Silvestre y Espacios Naturales, Auditoria y Evaluación de Impacto Ambiental, Zonificación Agroecológica y Ordenamiento Ambiental, Formulación y Evaluación de Proyectos Ambientales, Gestión Ambiental, Opción de Graduación.

SEMINARIOS DE LA MAESTRÍA

Informática, Lengua Extranjera, Bioética.

* Idoneidad otorgada por el Consejo Técnico Nacional de Agricultura (CTNA).

PROGRAMA DE MAESTRÍA EN GEOGRAFÍA CON ESPECIALIDAD EN GEOGRAFÍA REGIONAL DE PANAMÁ.

Coordinador: Magíster Roque A. Largota G.

La expresión “Geografía Regional de Panamá”, condensa el propósito general: pensar en la evolución del desarrollo natural y regional de las sociedades en su contexto territorial, prestando particular importancia a los problemas humanos ambientales y proponiendo opciones desde el punto del ordenamiento territorial. El programa comprende: Geografía Regional de Panamá y América Central, Geografía Cuantitativa, Cartografía y Análisis Espacial, Geografía de la Población de Panamá, Geografía Física de Panamá Recursos Naturales de Panamá, Geografía

Económica de Panamá, Geografía Regional de Panamá, Introducción al SIG y Teledetección, Cartografía Digital, Ordenamiento Territorial, Elaboración de Proyectos de Investigación I, Elaboración de Proyecto de Investigación II, Trabajo de Graduación.

SEMINARIOS DE LA MAESTRÍA

Metodología de la Investigación Geográfica, Informática, Inglés.

PROGRAMA DE MAESTRÍA EN TURISMO.

Coordinador: Magíster Roque A. Largota G.

Objetivos:

Formar profesionales con los elementos teóricos, metodológicos y técnicos que le permitan desempeñarse con eficacia y eficiencia en la administración, dirección y planificación; en empresa, organizaciones e instituciones a la promoción y prestación de servicios turísticos así como en organismos públicos de gestión turística. El programa

comprende: Turismo Sostenible, Elementos para el diseño Curricular del Programa de la Asignatura, Inventario del Producto Turístico, Desarrollo Turístico Local, Estadística Aplicada al Turismo, Formulación y Evolución de Proyectos Turístico, Gestión Estratégica del Turismo, Turismo Recreativo, Turismo Geográfico Histórico, Turismo Urbano o Metropolitano,

Turismo Ecológico, Turismo Rural y Agroturismo, Trabajo de Grado-Examen General de Conocimiento/Práctica Profesional/Tesis/Seis Créditos de Doctorado.

SEMINARIOS DE LA MAESTRÍA

Ética del Profesional del Turismo, Informática Aplicada, Lengua Extranjera.

PROFESORES DEL DEPARTAMENTO DE GEOGRAFÍA:

Magíster Ascela Aguina – Panamá Chiriquí, David. Universidad de Cartago

Magíster Michelle Carrillo – Panamá Chiriquí, David. Universidad de Cartago

Magíster Luis Hervey – Panamá Chiriquí, David. Universidad de Cartago

Ingeniero, Magíster Domingo Espinosa – México, Universidad Autónoma Agraria “Antonio Narro”

Ingeniero, Magíster Amael Jiménez – Costa Rica. CATIE

Ingeniero, Magíster Cornelio Franco – México, Universidad Autónoma Agraria “Antonio Narro”

Ingeniero Jarvi Quiel – Panamá Universidad de Panamá

Magíster Rodrigo Martínez – México, UNAM, Geógrafo. Especialista en Evaluación y Conservación de Recursos Naturales

Magíster Gloria E. Hernández de Martínez – México, UNAM, Geógrafa. Especialista en Evaluación y Conservación de Recursos Naturales

Magíster Yolanda del C. Aizpurúa – Panamá, UNACHI. Geógrafa, S.I.G.

Magíster Arabella C. de Atencio – Panamá, UNACHI. Geógrafa, S.I.G.

Magíster Octavio Caballero – Panamá, UNACHI. Geógrafo

Licenciada Edna R. Villamonte de Castillo – Panamá, UNACHI. Geógrafa

Magíster Luis A. Díez Ríos – Panamá, UNACHI. Geógrafo, S.I.G.

Magíster Catalina Espinosa – Panamá, UNACHI. Geógrafa, S.I.G.

Magíster Antonia Ríos de Gutiérrez – Panamá, UNACHI. Geógrafa, S.I.G.

Magíster Alexis J. Jiménez B. – México, UNAM. Geógrafo con Especialidad en Evaluación y Conservación de Recursos Naturales

Magíster Roque A. Lagrotta G. – Costa Rica, CATIE. Recursos Naturales

Magíster Adalides Lezcano C. – España Universidad Complutense de Madrid Geógrafa

Magíster Porfirio Navarro J. – Costa Rica, UCR. Geógrafo

Magíster Mirza E. Palacios L. – Panamá, UNACHI. Geógrafa, S.I.G.

Magíster Arturo J. Ríos G. – USA, INDIA. Geógrafo

Licenciada India Y. Ríos G. – Panamá, UNACHI. Geógrafa, S.I.G.

Magíster Janeth M. Valenzuela F. – Costa Rica, UCR. Geógrafo. S.I.G.

UNIVERSIDAD DE PANAMÁ

FACULTAD DE HUMANIDADES

DEPARTAMENTO DE GEOGRAFÍA

ESCUELA DE GEÓGRAFO PROFESIONAL

REPÚBLICA DE PANAMÁ, CIUDAD DE PANAMÁ

DATE FOUNDED: 1978

DEGREES OFFERED: Licenciatura en Geografía. Geógrafo Profesional

HEAD: Elías López Otero, M Sc.

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

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PROGRAMS AND RESEARCH FACILITIES: El Geógrafo Profesional de Panamá tiene su campo ocupacional en Instituciones Públicas, Privadas, Organizaciones No Gubernamentales y Grupos Consultores, relacionado con Planificación, Medio Ambiente, Evaluaciones de Impacto Ambiental, Manejo de Cuencas, Manejo Costero Integrado, Cartografía, Estudios Urbanos y Rurales, Planificación Turística, Ordenamiento Territorial, Análisis Demográfico, Teledetección, y Sistema de Información Geográfica, Gestión de Riesgos, Mitigación y Reducción de Desastres, entre otras. La formación Académica del Geógrafo Profesional se desarrolla mediante la integración en su Plan de Estudios de 5 Áreas académicas e instrumentales básicas, identificadas con sus respectivas asignaturas.

ÁREAS DE CIENCIAS BÁSICAS:

Matemáticas, Física, Química, Botánica, Estadística.

ÁREAS DE CIENCIAS GEOGRÁFICAS:

Geomorfología, Geología, Meteorología, Climatología, Biogeografía, Geografía Rural, Geografía Urbana, Geografía Cuantitativa, Geografía de Panamá, Hidrografía

ÁREAS DE FORMACIÓN TÉCNICA INSTRUMENTAL:

Cartografía, Cartografía Temática, Fotointerpretación, Topografía y Geodesia, Sistema de Información Geográfica, Sensores Remotos (Teledetección) Planificación de Recursos Hídricos.

ÁREAS DE FORMACIÓN EN GESTIÓN TERRITORIAL AMBIENTAL:

Planificación Regional, Evaluación y Conservación de Recursos Naturales, Geoecología en Zonas Tropicales, Problemas Geográficos de Países en Vías de Desarrollo, Ordenamiento Territorial, Evaluación de Riesgos y Mitigación de Desastres Naturales.

ÁREAS DE CIENCIAS SOCIALES Y CULTURALES:

Historia, Economía, Sociología, Filosofía de la Ciencia, Antropología.

FACULTY:

Cedeño, Héctor, Geógrafo, M Sc. Universidad de Panamá — Cartografía Censal, Ordenamiento Territorial

De León, Israel, Geógrafo, Candidato a Magister Universidad Santa María La Antigua — Geografía Física y Ecología Tropical

Espinoza, Dalis, Ingeniera Civil, M Sc. Universidad Tecnológica de Panamá — Hidrología y Estadística

López, Elías, Geógrafo, M Sc. Universidad de Costa Rica — Ordenamiento Territorial, Gestión Ambiental y Gestión de Riesgos

Luque, Virgilio, Dr. Geología — Geomorfología, Geología y Derecho Molo, Julio, Dr. Boudeaux, Francia — Geografía y Ecología Tropical
Mata, Jaime J. Geógrafo, Universidad de Chile — Biogeografía

Meza, Everardo, Ingeniero Civil y Topógrafo. Universidad Tecnológica de Panamá — Topografía y Geodesia

Martínez, Raúl. Geógrafo, M Sc. Universidad de Alcalá, España — Teledetección, Sistemas de Información Geográfica y Cartografía

Ramos, Raúl, Geógrafo, Candidato a Magister. Centro de Investigaciones Ambientales y Territoriales (CIDIAT), Mérida, Venezuela — Gestión Ambiental y Estudios de Impacto Ambiental

Vargas, Enrique, Geógrafo. Magister. Universidad Tecnológica de Panamá — Desarrollo Urbano y Regional

PARAGUAY

UNIVERSIDAD NACIONAL DE ASUNCIÓN, PARAGUAY

FACULTAD DE INGENIERIA

CARRERA DE INGENIERIA EN CIENCIAS GEOGRAFICAS

REPUBLICA DEL PARAGUAY, SAN LORENZO

DATE FOUNDED: 8 de febrero de 1979

DEGREES OFFERED: Licenciatura e Ingeniería en Ciencias Geográficas

POINT OF CONTACT: *Decano* Prof. Ing. Carlos H. Dellavedova. Email: chdellavedova@ing.una.py. *ViceDecano* Prof. Ing. Isacio Vallejos. *Director de Carrera* Prof. Ing. Lorenzo Antonio Centurión, email: centurion@ing.una.py, lcenturion@highway.com.py. *Prof. Ing. Rubén Darío Falcón:* rubendariofalcono@yahoo.com. Website: <http://www.ing.una.py>.

FOR FURTHER INFORMATION WRITE TO: Universidad Nacional de Asunción, Facultad de Ingeniería, Carrera de Ciencias Geográficas, Campus Universitario, San Lorenzo-Paraguay. Teléf: 595 21 585581/4. info@ing.una.py.

PROGRAMS AND RESEARCH FACILITIES:

La Facultad de Ingeniería: La Facultad de Ingeniería de la Universidad Nacional de Asunción se constituye en una referencia en la formación de ingenieros paraguayos, con casi ocho décadas de tradición académica. Los egresados de la FIUNA son ampliamente reconocidos por su sólida base teórica, complementada con un constante interés en la actualización en el estado del arte de las diversas ramas de la ingeniería ofrecidas: Ingeniería Civil, Electromecánica, Industrial, Electrónica y en Ciencias Geográficas. En el año 2006 se ha lanzado con gran expectativa la carrera de Ingeniería Mecánica. Desde su creación como 'Facultad de Ciencias Físicas y Matemáticas', la FIUNA y sus egresados han sido protagonistas principales en el desarrollo de la ingeniería paraguaya, tanto en el campo privado como en las instituciones estatales, resaltando especialmente en los grandes emprendimientos como las represas hidroeléctricas de, Yacyreta y Acaray, obras viales, etc.

La carrera de Ciencias Geográficas: En sus inicios fue creada como *Instituto de Ciencias Geográficas* por resolución N° 1538-02-79 del Honorable Consejo Superior Universitario de la Universidad Nacional de Asunción Acta N° 382 en fecha 8 de febrero de 1979 e inicio sus actividades en el año 1979. Este Instituto conforme lo establece el Estatuto vigente, paso a depender Académica y Administrativamente de la Facultad de Ingeniería desde febrero del año 2000.

Perfil General: El ingeniero en Ciencias Geográficas es un profesional con formación Técnico-Científico capacitado para

estudiar, evaluar, investigar, interpretar, analizar y proponer alternativas para el ordenamiento, la planificación territorial, la administración de los Espacios Geográficos, el uso racional de los recursos naturales y del medio socioambiental.

BECAS: Inscripciones a cursos, seminarios, congresos.

Requisitos:

Las Becas serán otorgadas a los estudiantes que reúnan los siguientes requisitos: 1. Estar matriculado en el período académico correspondiente. 2. Ser de nacionalidad paraguaya. 3. Registrar un promedio académico no inferior al 70 % o pertenecer al 25% de los mejores promedios en el período académico inmediato anterior, en cada caso. 4. Haber cursado y aprobado un mínimo de materias, no menor a 3, y mayor o igual al 50% de las asignaturas en las que se matriculó en el período inmediato. Para el caso de los ingresantes en su primera matriculación, haber obtenido como mínimo, en los Exámenes de Admisión un puntaje mínimo equivalente al 80% del total posible.

PERU

PONTIFICIA UNIVERSIDAD CATÓLICA DEL PERÚ

**FACULTAD DE LETRAS Y CIENCIAS HUMANAS
ESPECIALIDAD DE GEOGRAFÍA Y MEDIO
AMBIENTE**

REPÚBLICA DEL PERÚ, LIMA

DATE FOUNDED: 1987

DEGREES OFFERED: Bachiller en Humanidades con
mención en Geografía y Medio Ambiente. Licenciado en
Geografía y Medio Ambiente (equivalente al título
profesional de Geógrafo)

HEAD: Dr. Carlos Tavares Correa

**PARA PEDIR UN CATÁLOGO Y MÁS INFORMACIÓN,
FAVOR DE ESCRIBIR A:** Dr. Carlos Tavares Correa, Coordinador
de la Especialidad de Geografía y Medio Ambiente, Facultad de
Letras y Ciencias Humanas; Pontificia Universidad Católica del Perú.
Avenida Universitaria 1801, Lima 32, Perú. Tel. (511) 626 2000
anexo 4539, FX: (511) 626 2804. Email: ctavare@pucp.pe

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: La
especialidad de Geografía y Medio Ambiente estudia los fenómenos
físicos y humanos que ocurren en la superficie terrestre, de cuya
interacción resultan, en gran medida, las formas de ocupación del
territorio y calidad del ambiente de los lugares. Se ofrece una
formación integral que permite a sus egresados ser especialistas en
localizaciones de actividades económicas y de impactos ambientales.
Se ofrece un ambiente universitario acogedor y un gabinete de
estudios para que los estudiantes puedan desarrollar sus proyectos de
tesis y tareas de clase. También está el Centro de Investigación en
Geografía Aplicada que genera información y conocimiento del
espacio nacional y pone en valor la investigación geográfica para el
desarrollo regional y local del Perú. Los egresados pueden
desempeñarse con facilidad y eficacia en el entendimiento de los
fenómenos geográficos, ya sean físicos o humanos, a escala local,
regional o global, lo que agiliza una adecuada toma de decisiones
sobre asuntos de gestión territorial y ambiental. Actualmente vienen
trabajando eficientemente en departamentos de planificación y
organización del territorio de la administración pública, gobiernos
locales, ONGDs dedicadas a temas ambientales, consultorías sobre
temas geográficos, y docencia universitaria.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN: Para
ingresar a la especialidad de Geografía y Medio Ambiente (seis
ciclos), los alumnos deben haber completado los cuatro ciclos de
Estudios Generales Letras o Ciencias. Luego completar 130 créditos
de los cuales, 106 son obligatorios, 15 electivos y 09 de libre
disponibilidad. Los créditos obligatorios se distribuyen en Geografía
Física (31), Geografía Humana (22), Técnicas de investigación y
gestión (33), de Integración entre geografía física y humana (20). Esta
formación balanceada permite a los egresados poder trabajar
indistintamente en el área de geografía cultural o de geografía física,
sin mayores dificultades.

PROFESORADO:

Bernex, Nicole, Dra. Geógrafa, Université de Montpellier —
planificación urbana, geografía minera, percepción ambiental,
educación ambiental, teledetección

Chiarella Quinhoes, José Américo Roberto, Dr. Geógrafo,
Universidade de Rio de Janeiro — planificación nacional,
regional, local

Córdova Aguilar, Hildegardo, Ph.D, Geógrafo, University of
Wisconsin-Madison — biogeografía, geografía económica,
desarrollo rural, problemas urbanos

Goluchowska, Katarzyna, Dra. Geógrafa, Universidad de Varsovia —
Técnicas cuantitativas

Gonzales Hunt, Fernando. Ph.D, Geógrafo, University of Wisconsin
Madison — geografía cultural, técnicas de investigación,
ecología humana

Nagata Shimabuku, Miriam, M.Sc. Geógrafa, Université de Liège,
University of Syracuse — GIS, cartografía

Novoa Goicochea, Zaniel, Magister, Ingeniero Geógrafo, Universidad
Federico Villareal y PUCP — Planificación rural, ecogestión de
fronteras

Sabogal Dunin Borkowska, Ana. Dra. En Ecología, Technische
Universität Berlin, Aelmania. Ing. Agrónoma. — Economía
vegetal

Silva Vidal, Yamina, Dra. Ciencias Atmosféricas — Meteorología,
climatología

Tavares Correa, Carlos, Dr. Geógrafo, Universidade de Sao Paulo —
Estudios Ambientales de zonas litorales, hidrología, edafología

Timaná de la Flor, Martín Enrique. Ph.D. Biólogo, University of
Texas at Austin, Texas. — Ecología, recursos forestales

UNIVERSIDAD NACIONAL MAYOR DE SAN MARCOS

MAESTRÍA EN GEOGRAFÍA: Mención en “Gestión y
Ordenamiento Territorial”

PROGRAMA DE MAESTRADO FUNDADO EN: 1995.

Con la mención en “Gestión y Ordenamiento Territorial”
desde el 2003

TÍTULOS OFRECIDOS: Magister

DIRECTOR DE LA UNIDAD DE POSTGRADO

FACULTAD DE CIENCIAS SOCIALES: Dr.

Valdemar Espinoza

COORDINADORA DE LA MAESTRÍA EN

GEOGRAFÍA: Dra. Alicia Huamantínco

**PARA PEDIR UN CATÓLOGO Y MAS INFORMACIONES,
FAVOR DE ESCRIBIR A:** Dra. Alicia HUAMANTINCO
Coordinadora de la Maestría en Geografía Unidad de Postgrado de
Facultad de Ciencias Sociales, Universidad Nacional Mayor de San
Marcos. Ciudad Universitaria Avenida Venezuela s/n. Telefono 00511
6197000 anexo 4003

PROGRAMAS E INSTALACIONES DE INVESTIGACION: 1)
Convenio de cooperación académica para el desarrollo de los estudios

de geografía a nivel de postgrado entre la UNMSM y la Universidad Paris 1, Francia 2) Programa de investigaciones “Dinámicas Territoriales en la Periferia de Lima Metropolitana” convenio entre la UNMSM y Agence National de Recherche ANR de Francia

PLAN ACADEMICO, REQUISITOS DE ADMISION, AYUDA FINANCIERA:

Primer Semestre: Teoría y Método de la Geografía, Medio Físico-Geográfico, Sociedad, Economía y Territorio, Impacto Ambiental, Riesgos y Vulnerabilidad

Segundo Semestre: Seminario: Desarrollo Sostenible y Planeamiento Estratégico, Ordenamiento Territorial - Teoría y Método, Legislación para el Ordenamiento y Gestión del Territorio, Taller de Investigación I

Tercer Semestre: Información y Recursos Técnicos para el Ordenamiento, Gestión del Ordenamiento Territorial, Taller de Investigación II

Cuarto Semestre: Temas Sociales Avanzados, Seminario: Propuesta de Ordenamiento Territorial, Taller de Investigación III

PROFESORADO:

Alicia Huamantíno, Doctor, Universidad Federal de Rio de Janeiro Brasil

Hildegardo Córdova, PhD, Universidad de Wisconsin EEUU

Katarzyna Goluchowska, Doctor, Universidad de Varsovia, Polonia

Omar Landeo, Doctor, Universidad Paris 1 Sorbona

Pierre Foy Valencia, Doctor, Universidad del País Vasco, España

Manuel Dammert Ego Aguirre, Magister

Raúl Lizárraga Bobbio, Magister

Juan Meléndez de la Cruz, Magister

Fausto Asencio, Magister

Juan Guerrero, Magister

Luz Consuelo Muguruza, Magister

Rita Andrade, Magister

through a certificate in GIS and seminars in special topics. It also collaborates with different Geography

Departments in the United States by coordinating field trips, exchange students, and by individually working with students who do graduate research in Puerto Rico.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System. Program duration: Undergraduate, 4 years. *Admission requirements:* interests in the field coincident with those of the Department, and evidence of competence and fulfillment of general admission requirements to the Río Piedras Campus of the University of Puerto Rico. *Financial Aid:* Pell grants and Federal student loans to qualifying students.

FACULTY:

Ángel David Cruz Báez, PhD., Wisconsin-Madison (1977), professor and chairman — agricultural geography, computer cartography, geographic information systems, remote sensing and quantitative methods.

Martiza Barreto Orta, PhD, University of Puerto Rico-Mayagüez (1995) — marine geology and coastal geomorphology.

Carlos J. Guilbe López, PhD., Wisconsin-Milwaukee (1999) — land use and urban development, urban transportation and spatial models, retail activities (shopping centers), sports geography.

Carlos E. Severino Valdez, Dr. rer.nat., Humboldt University-Berlin, (1993), professor and Dean of Social Sciences — urban geography, political geography, economic development.

Francisco Watlington Linares, PhD., Gainesville (1990) — neotropical tropical viticulture, antropogeography of Puerto Rico, historical geography of the New World.

ADJUNCT FACULTY:

José M. Long Mulet, Juris Doctor, Interamerican University of Puerto Rico, M. Public Health, University of Puerto Rico, San Juan — geography and law, population geography

Irvia E. Toledo Rodríguez, M.A. Akron — cartography, geographic information systems

PUERTO RICO

UNIVERSITY OF PUERTO RICO

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: Program, 1945; Department, 1968

DEGREES OFFERED: Bachelors

STUDENTS: Undergraduates, 145

CHAIR: Ángel David Cruz Báez

DEPARTMENT SECRETARY: Evelyn Ramos Cosme

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. Ángel David Cruz Báez, Chairman, Department of Geography, College of Sociales Sciences, , University of Puerto Rico, P.O. Box 23345, San Juan, 00931-3345. Telephone Number: 787 764 0000, exts. 4164 and 2479; Fax Number: 787 773 1709; e-mail address: geografia@uprrp.edu.

PROGRAMS AND RESEARCH FACILITIES: As the only Department of Geography in Puerto Rico, it is the main center for geographic education and research in the Island. Its mission is to offer good quality education with the objective of preparing students to continue graduate studies or to work in the public and private sector. It does this by introducing students to the main traditions in Geography through different approaches: lectures, seminars, field work, field trips and scientific research. It is equipped with a computer cartography, gis, and remote sensing laboratory and offers continued education

TRINIDAD AND TOBAGO

UNIVERSITY OF THE WEST INDIES, ST. AUGUSTINE

FACULTY OF FOOD AND AGRICULTURE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 2012

DEGREES OFFERED: Entry-Level Certificate in

Geography, BSc in Geography (Special), BSc in General Geography (Major), Environmental and Natural Resource Management (Major), MPhil in Geography, PhD in Geography, MSc in Geography (forthcoming)

HEAD OF DEPARTMENT: Dr. Priya Kissoon,
geography@sta.uwi.edu.

CONTACT ADDRESS: Department of Geography, Faculty of Food and Agriculture, The University of the West Indies, St. Augustine, Trinidad, West Indies. Phone: 18686622002 ext. 84129 or 83612; Email: geography@sta.uwi.edu.

Website: <http://sta.uwi.edu/ffa/geography/programmes>

PROGRAMS AND RESEARCH FACILITIES: The Department offers several programs which contribute to the development of social and environmental research in the Caribbean region. These include an entry-level Certificate in Geography, BSc. Geography (Special), BSc. General Geography (Major) Environmental and Natural Resource Management (Major), MPhil Geography, PhD Geography, and MSc. Geography that is under development.

Through its program offerings and research, the Department aims to support sustainable social, cultural, economic, and environmental development in the Caribbean region and the wider world. The Department of Geography pursues interdisciplinary research and teaching that brings rigorous spatial analyses to crucial questions about the state of the environment as a home for present and future generations. Undergraduate teaching ensures a mix of quantitative and qualitative skills and critical thinking, while the postgraduate program allows students to pursue courses across disciplines to support their research inquiries.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System. Program duration: Entry-Level Certificate, 1 year; Undergraduate, 3 years; Master of Philosophy, 2 years; Doctor of Philosophy, 3 years including Dissertation; Master in Geography, 1 year (forthcoming).

Admission: Relevant General Regulations of the UWI Board of Undergraduate Studies apply. Currently students are admitted to the ENRM major programme on requirement of two x two unit subjects at CAPE, or 'A' Level equivalent, and a pass in Biology/ Human & Social Biology/Integrated Science at CSEC level OR; 2 CAPE subjects one of which must be Environmental Science or Geography or Biology OR Certificate in Environmental Geography OR; an approved Associate Degree with a minimum GPA of 2.5.

Admission to the BSc Geography degree is based on student performance in the common level 1, requiring a cumulative average GPA of 2.8 across the first year Geography courses. Students are advised and encouraged to apply for transfer to the BSc Geography programme at the end of the first year. Student profiles are assessed by a staff committee and students advised on transfer before the commencement of their second year. Transfer to the BSc Geography degree is not compulsory for students who wish to remain on the major programme.

Graduate Programs: Masters and MPhil-An undergraduate degree in Geography or a related field with a GPA of 3.0 or higher; PhD-Financial Aid: Funding available to citizens of Trinidad and Tobago. Limited Funding available to Caricom Nationals.

FACULTY:

Kissoon, Priya, BA, BEd, MA (York University), PhD (King's College London), Head of Department, Lecturer (Urban Social Geography)

Darsan, Junior, BSc, PhD (UWI), Lecturer (Coastal Geomorphology)
Farrick, Kegan, BSc (UWI), MSc (Univ of Waterloo), PhD (University of Western Ontario), Lecturer (Hydrology)

Gahman, Levi, BSc, BSc, MA (Univ of Kansas), PhD (University of British Columbia), Lecturer (Critical Geography)

Thongs, Gabrielle BSc, MSc, PhD (UWI) Lecturer (Quantitative Spatial Analysis and Modelling)

URUGUAY

ASOCIACIÓN NACIONAL DE PROFESORES DE GEOGRAFÍA-URUGUAY

TIPO DE INSTITUCION: Privada, sin fines de lucro

ACTIVIDAD PRINCIPAL DE LA ASOCIACION:

Educación; Proporcionar servicios técnicos en materia geográfica y educación

FECHA DE FUNDACION: 23 de setiembre de 1967

REVISTA: Geoespacio

SITIO WEB: www.anpg.org

PARA MAS INFORMACION CONTACTAR: Miguel Liguera, Presidente de la asociación, Convención N° 1382 oficina 101. Montevideo, Uruguay. Telefono: 598- 29018730, Fax: 598- 29018730, anpg@adinet.com.uy y anpg@yahoo.com.ar

ESTRUCTURA Y ORGANIZACIÓN: La estructura organizativa es la siguiente: Comisión Directiva; Asamblea Ordinaria y Extraordinaria; Comisión Fiscal; Comisión Electoral. Todos los cargos son honorarios.-Comisión Directiva: compuesta por siete miembros titulares e igual N° de suplentes. Duran dos años y pueden ser reelectos por un sólo período más. Ejerce la dirección y administración de la Asociación, coordina actividades y servicios destinados a sus asociados.-Asamblea ordinaria: se reúne anualmente para considerar memoria, balance y asuntos de interés según los fines de la Asociación.-Asamblea Extraordinaria: se reúne por convocatoria de la Comisión Directiva o a requerimiento de un 15% o más de sus asociados.-Comisión Fiscal: la integran 3 miembros titulares con doble N° de suplentes. Sura dos años y puede ser reelecta por dos períodos más. su función es vigilar la administración de la Asociación y revisión de los balances.-Comisión Electoral: se integra por 3 miembros titulares e igual N° de suplentes. Dura dos años en su función. Tiene a su cargo lo relativo al acto electoral, escrutinio y determinación de los resultados, proclamando a las nuevas autoridades.

FINES: Proporcionar servicios técnicos en materia geográfica y educación, jerarquizando la Geografía a nivel Nacional. Se mantendrá ajena a toda tendencia política, religiosa y filosófica, pero tendrá una participación activa en el quehacer cultural de nuestro país. Propicia formas de comunicación permanente entre los docentes, investigadores e instituciones vinculadas a la Geografía. Fines particulares: Divulgación de técnicas didácticas; difusión de información científica, bibliográfica y metodológica. Establecimiento de vínculos con instituciones públicas y privadas que tengan relación con los fines de la institución. Recopilar y difundir experiencias pedagógicas y de investigación. Elaborar material auxiliar al trabajo docente. Incentivar la redacción de trabajos de interés didáctico-científico. Organizar o asesorar trabajos de campo. Organizar encuentros, talleres, conferencias y congresos nacionales, regionales e internacionales.

PROGRAMAS QUE SE OFRECEN: Área de cartografía: cursos de actualización semi presenciales, sobre el uso de la cartografía y los sistemas de información en el nivel secundario. Área de Astronomía: cursillo de Contenidos astronómicos aplicables a los cursos de Geografía de nivel Secundario. Área de Geografía: jornadas de perfeccionamiento sobre Geografía aplicada, utilización de la informática y el trabajo con proyectos con alumnos de bachillerato.

MIEMBROS: Son integrantes de la Asociación los profesores de

Geografía en actividad y jubilados residentes en el Uruguay.

EVENTOS ANUALES: Congreso de Geografía y Ambiente. Nacional e internacional (entre 130 y 250 personas asisten cada año).

CENTRO REGIONAL DE PROFESORES DEL NORTE

DEPARTAMENTO DE GEOGRAFÍA

FECHA DE FUNDACION: 26 de Mayo de 1997

PROGRAMAS DE ESTUDIO: Grado asociado/técnico

SITIO WEB:

http://www.dfpd.edu.uy/cerp/cerp_norte/index.html

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIR A: María del Rosario Bottino Bernardi, Docente formadora de formadores en Geografía, Uruguay, Telefono: 46220717, Fax: 46220691, cerpnorte@gmail.com

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN El profesorado mención Ciencias Geográficas ofrece una formación integral que permite a sus egresados desempeñarse como docentes formadores en Geografía, en Enseñanza Media, tanto en la Educación Secundaria, como en las Escuelas Técnicas del país. Se ofrece un ambiente de formación terciaria acogedor, una biblioteca, con un área de estudio y un para que los estudiantes puedan desarrollar sus proyectos de investigación y tareas de clase. Los egresados pueden desempeñarse con facilidad y eficacia en el entendimiento de los fenómenos geográficos, ya sean físicos o humanos, a escala local, regional o global, lo que agiliza una adecuada toma de decisiones sobre asuntos de gestión territorial y ambiental. **PLAN DE TRABAJO DEL DEPARTAMENTO DE GEOGRAFÍA DEL CeRP DEL NORTE:** Promover la formación geográfica de los aspirantes al profesorado con solvencia. Consolidar la formación académica permanente de los docentes. Profundizar las actividades de extensión. Promover la actividad de investigación. Ejercer la docencia colaborativamente

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: Para ingresar a la carrera de profesorado de Geografía, los alumnos deben haber completado Educación Secundaria. Luego completar cuatro años, en el que poseen un tronco común de asignaturas, compartidas por las otras opciones de profesorado, y que corresponden a las asignaturas de Ciencias de la Educación; y asignaturas específicas de la Geografía: Geografía Física, Geografía Humana, Geografía Económica, Cartografía, Astronomía para Geografía, Matemáticas para Geografía, Uruguay, Uruguay y la región, Latinoamérica, Países centrales, Países periféricos, Didáctica de la Geografía, Estructura del Mundo contemporáneo, Geología, Geopolítica, Evolución y métodos del pensamiento geográfico, Teoría geográfica; así como cuatro seminarios específicos en Geografía histórica, del Uruguay, Ordenamiento territorial y medio ambiente, Investigación en Geografía. Todas las asignaturas y seminarios son obligatorias; debiendo llegar a una calificación de 5, en una escala de notas del 1 al 12, para tener derecho a rendir examen; pudiendo exonerar, salvo Didáctica, si logran una calificación de 9. Esta formación les permite al egreso, desempeñarse como docentes formadores en Geografía, en Enseñanza Media, tanto en la Educación Secundaria, como en las Escuelas Técnicas del país. El Consejo de Formación en Educación brinda beca total o parcial a estudiantes que provengan de otros lugares de la región. Beca total incluye: residencia, comida y traslado a sus hogares cada 15 días; la beca parcial puede ser uno de los beneficios de la total.

DOCENTES:

- Prof. Carmen Pedezert, docente egresada del Instituto de Profesores Artigas, en la mención Astronomía. Directora Observatorio de Astronomía en la ciudad de Rivera- Astronomía para Geografía.*
- Prof. Gabriela Begino, docente egresada del Instituto de Profesores Artigas, en la mención Geografía. Maestrante en Didáctica de Educación Media — Geografía de Países periféricos, Seminario de Investigación en Geografía, Seminario de Geografía histórica*
- Prof. Patricia Correa, docente egresada del Instituto de Profesores Artigas, en la mención Geografía, y en el Instituto de Formación Docente de Tacuarembó como maestra de Educación Primaria. Posgrado en curso del Diplomado en Geografía, por el Instituto de Perfeccionamiento de Estudios Superiores, en Montevideo — Geografía de Países Centrales, Cartografía, Geografía de América Latina, Introducción a la Didáctica, Geopolítica.*
- Prof. Laura Meneses, docente egresada del Instituto de Profesores Artigas, en la mención Geografía. Posgrado de Evaluación de los Aprendizajes en la Universidad Católica del Uruguay — Teoría Geográfica - Seminario de ordenamiento territorial y medio ambiente.*
- Prof. Beatriz Taroco, docente egresada del Instituto de Profesores Artigas, en la mención Geografía. Posgrado de Evaluación de los Aprendizajes en la Universidad Católica del Uruguay — Geografía Humana, Geografía Física II, Geografía del Uruguay, Seminario Uruguay.*
- Prof. Rosario Bottino, docente egresada del Instituto de Profesores Artigas, en la mención Geografía. Posgrado en Constructivismo y Educación, en Facultad Latinoamericana de Ciencias Sociales, sede Buenos Aires, Posgrado de Evaluación de los Aprendizajes en la Universidad Católica del Uruguay, y Posgrado en curso del Diplomado en Geografía, por el Instituto de Perfeccionamiento de Estudios Superiores, en Montevideo — Didácticas I, II y III.*
- Prof. Roberto Iglesias, docente egresado del Instituto de Profesores Artigas, en la mención Geografía — Geología, Estructura del Mundo Contemporáneo, Geografía Física I, Geografía Económica.*
- Prof. Ailton Leal, docente egresado del Centro Regional de Profesores del Norte, en la mención Geografía — Evolución y métodos del pensamiento geográfico.*

VENEZUELA

UNIVERSIDAD CENTRAL DE VENEZUELA

ESCUELA DE GEOGRAFÍA

BACKGROUND: Escuela de Geografía, adscrita a la Facultad de Humanidades y Educación. La Escuela tiene su inicio en el año 1956. Se obtiene el título de Licenciado en Geografía. Desde el año de 1960 se han efectuados grados en ese sentido. Actualmente tiene una matrícula de 540 estudiantes inscritos como regulares y existen 140 estudiantes inscritos como tesis. La escuela de organiza administrativa y académicamente en una dirección y cinco departamentos.

El número telefónico de la dirección de la escuela es el 58-212-6052876 y 6052900. FAX. Mayores detalles se encuentran en la siguiente dirección electrónica:

<http://www.ucv.ve/humanidades/FHE2005/escuelas/geografia/index.htm>

PROGRAMA Y FACILIDADES: Reglamento de ingreso de alumnos a la universidad central de Venezuela, capítulo I, disposiciones generales.

Artículo 1° Son alumnos de la Universidad Central de Venezuela, las personas que, cumpliendo con los requisitos de admisión previstos en la Ley de Universidades, reglamentos y resoluciones del Consejo Universitario, sigan los cursos para obtener los grados, títulos o certificados que confiera la Universidad. Artículo 2° Para ingresar como alumno a la Universidad Central de Venezuela se debe cumplir con los requisitos y procedimientos que al efecto se establecen en la presente normativa. Artículo 3° Las inscripciones al nivel de las Facultades de la Universidad se efectuarán conforme a las disposiciones contenidas en el presente reglamento y a las normas internas que al efecto dicten las Facultades. A tales fines los Consejos de Facultad podrán, de acuerdo a la naturaleza de la enseñanza que en ellas se imparte y a las condiciones particulares en cuanto a demanda y disponibilidad de cupo, así como a cualquier otra circunstancia relacionada con su estructura y funcionamiento, proponer al Consejo Universitario la aprobación de las referidas normas internas.

PLAN ACADÉMICO, REQUERIMIENTOS DE ADMISIÓN Y AYUDA FINANCIERA:

El plan de estudio contempla cinco años de estudio y se conforma de un ciclo básico con cinco semestres y un ciclo profesional con cinco semestre. Se deben aprobar 180 créditos. Las asignaturas están agrupadas en cátedras y estas en departamentos. Los Departamentos de la Escuela de Geografía son cinco: Geografía Regional, Cartografía, Metodología, Geografía Física y Geografía Humana.

PROFESORES:

Jesús Prieto. jesusprieto@yahoo.es Licenciado en Geografía. UCV, 1974, Profesor Asistente, en Cartografía y Catastro.

Miguel Pineda estereofoto@geovzla.zzn.com. Licenciado en Geografía. UCV, 1976, Profesor Asistente, en Cartografía y Fotointerpretación.

María Arreaza mararr20042003@yahoo.com Lic. en Geografía. 1986, Profesor Instructor, en Economía.

Gerardo Gonnella. Licenciado en Geografía. UCV, 1996, Profesor Instructor, en Cartografía y Fotointerpretación.

Gaby González. deltageo2004@yahoo.es Licenciado en Geografía. 2002-UCV. Maestría en Análisis Espacial Y gestión de Territorio UCV 2012, Profesor Contratado, en Cartografía.

Raquel Manduca raquelmanduca@yahoo.com. Licenciado en Geografía. UCV, 1968, Master en Geografía, 1979. Profesor Asistente, en Geografía Regional. Venezuela IV

Freddy Aponte freddyaponte@yahoo.com . Licenciado en Geografía. UCV, 1988, Maestría en Planificación. Profesor Asistente, en Geografía Regional. Venezuela I

Ana Vergel anaverlo3@yahoo.com Licenciado en Geografía. UCV, 1984, Profesor Contratado, en Geografía Regional. Venezuela II

Francisco Fantone franfantone@yahoo.es Licenciado en Geografía. UCV, 1988, Master en Manejo de Recursos, Profesor Asistente, en Geografía Regional. Venezuela II y Seminario de Geografía Regional

Julio Cubas. Licenciado en Geografía. UCV, 1984, Profesor Instructor, en Geografía Regional. Venezuela III

Pedro Delfín. Pedrodelfin@cantv.net Maestría en Análisis Espacial y Gestión del Territorio. 2011, Profesor en Asistente, Geografía Regional. Venezuela I y III.

Soledad Sanabria soledad.sanabria@gmail.com Maestría en Análisis Espacial y Gestión del Territorio 2010. Profesor Instructor, en Inventario y Evaluación de Recursos.

Eva Colotti B. MScecolotti@cantv.net en Climatología. UCV. 1996. Licenciado en Geografía 1986. Profesor Agregado en Climatología II.

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Leandro Montes lemonte2008@gmail.com, Licenciado en Geografía. UCV, 1985, Master en Planificación 1998, Profesor Instructor, en Geomorfología I y II.

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Jesús Barboza jlubarbo@yahoo.es Licenciado en Geografía. UCV, 2000, Profesor Instructor, en Meteorología.

Andrés E. Blanco andeloblant@yahoo.com Licenciado en Geografía. UCV, 2000, Especialista en Análisis de Datos, UCV, 2009. Profesor Asistente, en Climatología I y II. Coordinador Académico de la Escuela de Geografía

Vidal Sáez vidal.saezsaez@gmail.com Dr. en Ciencias, UCV, 2002, Profesor Titular, en Biogeografía y Seminario de Investigación. Coordinador de Investigación en la Facultad de Humanidades y Educación. Coordinador de la Maestría Análisis Espacial y Gestión del Territorio.

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Eunice Siso eunicesiso@yahoo.es. Licenciado en Geografía. UCV, 1999, Especialista en Análisis de Datos-UCV, 2008, Profesor Agregado, en Estadística.

Silvia González. silvia_gonzal48@hotmail.com Lic. en Geografía. 1995. Profesora Instructor, en Cartografía. Escuela de Geografía.

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Pedro Barrios pmbarrios@yahoo.com Licenciado en Geografía. UCV, 1999. Especialista en Análisis de Datos, UCV, 2007. Profesor Agregado, en Matemática

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Lorena Ortiz lolean23@yahoo.es Licenciado en Geografía. UCV, 2000, Maestría en Análisis Espacial y Gestión del Territorio, UCV 2011. Profesor Asistente, en Técnicas de Preseminario.

Yeimic Bastidas bastidasyeimic@gmail.com. Licenciado en Idiomas. Inglés. 2007. Prof. Instructor en inglés.

Rafael Ruano. Licenciado en Geografía. 1978. UCV. Especialista en Estudios Políticos. Profesor Agregado, en Geografía Humana y Geografía del Subdesarrollo.

Simón González gonzalezsotillo@gmail.com. Licenciado en geografía. 2003. UCV. Prof. Instructor en, Geografía regional de Venezuela.

Ángel Villaroel. angelvillarroel2001@yahoo.com. Licenciado en Estadística. Maestría en Análisis Espacial y Gestión del Territorio. 2013. Profesor Asistente, en Estadística

Karenia Cordova kareniaac@gmail.com Lic. en geografía. 1985. Maestría en Energía, Brasil. Profesora Asociado, en Seminario Energía y Ambiente; Teoría geográfica. Directora del Instituto de Geografía y Desarrollo Regional.

Marisol Salazar marsalazar13@gmail.com Licenciado en Geografía, UCV-1983. Instituto de Geografía y Desarrollo Regional. Profesor Instructor, en Análisis Espacial.

Roger Pece. rogerpece@gmail.com. Master en Demografía. 2009. Profesor Asistente en Geografía de la Población. Instituto de Geografía y Desarrollo Regional.

Jesús Lemus. jlemusm@yahoo.com Licenciado en Geografía 2006. Profesor Asistente, en Introducción a la Geografía. Instituto de Geografía y Desarrollo Regional.

Víctor Hugo Aguilar vhal999@yahoo.com. Licenciado en Biología en 1994. Profesor Instructor, en Métodos Cuantitativos en Geografía. Instituto de Geografía y Desarrollo Regional.

Miguel Cano de los Ríos. miguel_cano_r@yahoo.com. Licenciado en Geografía, 1976. Profesor Instructor en Geografía Urbana
Roberto Rivera. robertorivera77@hotmail.com. Licenciado en Geografía. 2002. Doctor en Sensores Remotos 2009. Profesor contratado en SIG

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TITLES OF THESES AND DISSERTATIONS COMPLETED 2016-2017

UNITED STATES

ALABAMA

AUBURN UNIVERSITY

Masters (Arts):

- Barbre, Nicholas L. "Irrigation and Certificate of Use Compliance in the Wiregrass Region of Alabama"
- Greer, Seth "Are Cool Roofs Really Cool? A Predictive Regression Model for buildings on Auburn University's Campus"
- Hossain, Mohammad Khalid "Flood Risk Assessment for Vulnerable Populations and Infrastructure: Birmingham, Alabama"

UNIVERSITY OF ALABAMA

Masters (Science):

- Barefoot, Carson "Effects Of Thinning And Burning On Ground Flora In Mixed Pinus-Hardwood Stands"
- Delgado, Alysa "Thoughts And Threats: Understanding The Current Sea Turtle Landscape In Southern Belize"
- Lombardi, Rachel "A Meta-Analysis Of Holocene Fluvial Activity In The Southeastern U.S."
- McGinnis, Cynthia "Integrating Citizen Science and Statistical Methods to Assess Seagrass Die-Off In Florida Bay"
- Munasinghe, Dinuke "Riparian Vegetation Response To Steamflow Alterations Due To Dam Construction In A Range Of Rivers Across The United States"
- Shuster, Robert "Characteristics Of Recreational Boat Wakes"
- Skeeter, Walker "Synoptic Characteristics of Intense Precipitation Events In The Southeastern United States"
- Sweetman, Brenna "Analysis of Water Quality in the Port Honduras Marine Reserve, Belize: A Case Study of Human Impacts On A Diverse And Critical Marine Landscape"
- Willson, Kevin "Temporal Dynamics Affecting Ground Flora Recovery after Fire in Thinned Pinus-Quercus Stands"

UNIVERSITY OF NORTH ALABAMA

Masters (Science):

- Akanga, Donald O. "Analysis of Spatiotemporal Occurrence of Drought in Kenya using MODIS Satellite Data" (Mighty, 2018)
- Cornelius, Kevin "Forecasting Distribution of Hydrilla Verticillata under Current and Future Climate Scenarios" (Fleming, 2017)
- Green, Tucker "Military and Urban Expansion around Active Military Installations" (Brommer, 2018)
- Green, Tucker "Sustainability in Desab, Haiti" (Brommer, 2018)
- Miller, Randee "Spatial and Temporal Analysis of Hydrilla verticillata Infestation in Pickwick Reservoir, Alabama" (Fleming, 2018)
- White, Chandler "Phylogenetic Patterns of Potamogeton crispus L. and its Invasive Impacts on Community Assembly" (Fleming, 2017)

ARIZONA

ARIZONA STATE UNIVERSITY

PhDs:

- Ayodele, Deborah "Coordination and Power in Water Governance: The Case of Prescott Active Management Area" (Larson, Kelli, 2017)
- Benessaiah, Karina "Social-Ecologies of Crisis: Assessing the Back to-Land Movement in Greece" (Turner, 2018)
- Conrow, Lindsey "Understanding Mobility and Active Transportation in Urban Areas Through Crowdsourced Movement Data" (Wentz, 2018)
- Fischer, Heather "Tourist-Centric Citizen Science in Denali National Park and Preserve" (Wentz, 2017)
- Inman, Richard "Improving Species Distribution Models with Bias Correction and Geographically Weighted Regression: Tests of Virtual Species and Past and Present Distributions in North American Deserts" (Franklin, Janet, 2018)
- Kolak, Marynia "Policy and Place: A Spatial Data Science Framework for Research and Decision-Making" (Anselin, 2017)
- Oshan, Taylor "A New era of Spatial Interaction: Potential and Pitfalls" (Fotheringham, 2017)
- Santoro, Michael "Regional Famine Patterns of The Last Millenium as Influenced by Aggregated Climate Teleconnections" (Cervený, 2017)
- Wolf, Levi "Spatializing Partisan Gerrymandering Forensics Measures and Spatial Specifications" (Rey, Sergio, 2017)
- Zhao, Qunshan "Evaluating the Effectiveness of Tree Locations and Arrangements for Improving Urban Thermal Environment" (Wentz, 2017)

Masters (Arts):

- Panhans, Paul "Relationship Between Surface Dewpoint and Precipitable Water During the North American Monsoon" (Cervený, 2017)

Masters (Urban and Environmental Planning):

- Cui, Wencong "Study on the Effects of Building Density on the Efficiency of Dockless Bike Sharing System- A Case Study of Beijing, China" (Kuby, 2018)
- Musili, Catherine "The Role of Informal Transit in New York City: A Case Study of Commuter Vans in Eastern Queens" (Salon, 2017)

NORTHERN ARIZONA UNIVERSITY

Masters (Science):

- Gada, Brittany "Planning for Fairness: Equity in French Urbanisme and Grenoble's De Bonne Eco-Neighborhood" (Lew, 2017)
- Neves, Antonio Henrique Caldeira Jorge "Spatio-Temporal Variability and Demographic Characteristics of Transit-Based Job Accessibility: A GIS Assessment of the Public Transit System In Flagstaff, Arizona" (Huang, 2018)

MS Practicums:

- Garrett, Emily "Recreation and Vegetation Assessment in Petrified Forest National Park, Arizona" (Taney, 2018)
- Krueger, Neala "Planning for the City of Flagstaff: High Occupancy Housing Specific Plan" (Lew, 2017)

- Livingston, Trey "Hawaiian Islands Land Trust: North and South Kona Conservation Analysis" (Hawley, 2017)
- Pint, Todd "Development of an Associates in Science (AS) with Geospatial Technologies at Arizona Western College (Yuma, AZ)" (Manone, 2017)
- Turner, Robert L. "Evaluation of a Small Unmanned Aircraft System (SUAs) For Big Game Survey" (Lew, 2018)

UNIVERSITY OF ARIZONA

PhDs:

- Bae, Jinwon "Concentration in Regional Economics, Environmental Economics, Modeling"
- El Vilaly, Audra "Reassembling the Subject: the Politics of Emotion, Care, and Environmental Memory in Abolitionist Mauritania"
- Magrane, Eric "Creative Geographies and Environments: Geopoetics in the Anthropocene"
- Minor, John Jesse "Ecological Resilience to Disturbance in Madrean Ecosystems"
- Ranek, Anne "Paradoxical Spaces: Identity and Everyday Spatial Practice among Muslim Youth in Copenhagen, Denmark"
- Soto, Valente "The Affective and Emotional Geographies of the Secondary Witnesses of Drug-related Violence in Northwest Mexico"

Masters (Arts):

- Franklin, Remington Santiago
- Mann, Sarina "Assessing the Habitat of *Coccidioides posadasii*, the Valley Fever Pathogen: a Study of Environmental Variables and Human Incidence Data in Arizona"
- Patton, Joseph
- Schur, Emilie
- Sutter, Leland

Masters (Science):

- Baker, Jarret "Minimizing Time Cost of Tucson Construction Inspections through the use of A Network Dataset"
- Bertrand, Christopher "City Birds: Effects of Land Cover on Bird Species Distribution in the Tucson Metropolitan Area"
- Bianca Chavez Espinosa "Integration of GIS into Tucson Water Valve Turn Request"
- Herndon, Carly "A Spatial Analysis of Community Development from Seed Grants"
- Jones, Thomas "Using Geometric Networks to Model the Fiber Optic Network in the City of Tucson"
- Khosla, Devesh "Climate Landscape Response (CLaRe) Phenometrics for Southern AZ & CA Using PRISM and MODIS Data and Leveraging the PICO"
- Logan Ann Marie Wagner "Modeling Habitat Suitability for the Elegant Trogon in Southeastern Arizona"
- Ruff, Alexander "Building a Web Application and Land Navigation Course to Help Develop Military Relevant Informal GIS Education"

MDP:

- Djenontin, Ida Nadia Sedjro
- Hein, Chloe
- Jones, Shannon
- Katoko, Johannes
- Klasek, Genet
- Klotzman, Paige
- Monroy, Amanda
- Rascon-Garcia, Karla Nohemi
- Uren, Jessica Carol

CALIFORNIA

CALIFORNIA STATE UNIVERSITY-NORTHRIDGE

Masters (Arts):

- Ayers, Sean "What Macedonia brings to the Club- Why it belongs in the European Union" (Davidson, 2016)
- Chen, Tom "Indoor Asset Mapping and Management: An Open Source Approach to Enterprise GIS Application" (Borouhaki, 2017)
- Crisp, Danielle "Relationship of land use modification and sediment transportation to transverse and parabolic dune behavior in the Mussel Rock dunes complex, California" (Laity, 2017)
- De Mello, Danielle "Public awareness regarding the issues associated with electronic waste: an assessment of awareness, values, behaviors, and location" (Graves, 2017)
- Esmail, Yussef "Geographies of recyclers in the San Fernando Valley" (Maas, 2016)
- Jimenez, Myrna "Historic preservation and the effects on real estate in Los Angeles county" (Craine, 2016)
- Balanji, Andre "Has e-commerce changed the Los Angeles bookstore landscape?" (Jackiewicz, 2016)
- La Sota, Bryan "Geography of officer involved shootings in Los Angeles County, California: A distance-based Approach" (Graves, 2017)
- Lindgren, Amanda "Implementation of a volunteered Geographic information (VGI) mobile application for Plant inventory" (Borouhaki, 2017)
- Margousian, Armen "Geographic Analysis of Armenian Immigration Patterns in the United States: Evidence from American Apostolic Churches" (Orme, 2016)
- Simonyan, Kristine "Road Traffic Collisions Analysis Using GIS Technology" (Borouhaki, 2017)
- Stere, Michael "Multi-criteria decision analysis for placing a concentrated solar power plant in the Greater Los Angeles area" (Maas, 2017)
- Teelin Hoffman, Jaime "Classification of the wildland-urban interface for fire risk analysis in Los Angeles County, California" (Borouhaki, 2017)

UNIVERSITY OF CALIFORNIA- DAVIS

PhDs:

- Christensen, Bradley "The Geography of Places and Their Economic Activities: Agriculture, Regional Identity and Place-activity Associations" (Martin Kenney, 2016)
- Hedao, Prashant "Integrated Conservation Planning in a Global Biodiversity Hotspot: A Case Study of Kodagu in Western Ghats, South India" (James Quinn, 2017)
- Norton, Michael "Quantitative Methods for Agricultural Development at the Interface of Geography and Applied Economics" (Stephen Boucher, 2017)
- Palm, Matthew "The Prospects for Aligning State and Federal Housing Policies with Sustainable Transportation Goals" (Deb Niemeier, 2016)
- Sadat, Zahedus "Place Making, Cosmopolitanism, and Youth Identity: An Ethnography of a Bangladesh-American Islamic Study Group" (Patsy Owens, 2017)
- Snyder, Kristen "Conflict and Conservation: The Impacts of Human-Wildlife Competition at Local and Regional Scales" (Lynette Hart, 2016)

Masters (Arts):

- Solins, Joanna "Multiple Drivers of Vegetation Change in an Urban Landscape: Riparian Canopy Expansion along Headwater Streams near Sacramento, California" (Mary Cadenasso, 2016)

UNIVERSITY OF CALIFORNIA LOS ANGELES

PhDs:

- Burkhardt, Nicholas "Instructional Technology and Learning Analytics in Online Geographic Information Science (GIS) Education" (Shin, 2017)
- Connor, Dylan Shane "Putting People in their Place: Intergenerational Inequality in the Age of Mass Migration" (Goodwin-White, Rigby, 2017)
- Glover, Katherine Colby "Southern California Climate and Vegetation Over the Past 125,000 Years from Lake Sequences in the San Bernardino Mountains" (MacDonald, 2017)
- Hughes, Sara Nichole-Salazar "Suburban Occupation: Contradictory Impulses and Outcomes of Life in Israeli Settlements in the Occupied West Bank" (Agnew, 2017)
- Jia, Shen Yue "Understanding the Ecological Challenges in California Protected Areas: Through the Lens of Remote Sensing Technologies" (Gillespie, 2017)

Masters (Arts):

- Beer, Clare Marie "Enclosing Ecology? Land Conservation and Environmental State Craft in Chile" (Sheppard, 2017)
- Ciochina, Mark Ioan "Effects of Nutrient Availability on Root Nutrient Uptake and Carbon Exudates of Mature *Tetragastris panamensis* in a Lowland Humid Tropical Forest" (Cusack, 2017)
- Fischella, Michael R. "Investigating Woody-Grass Interactions in Savannas" (Okin, 2017)
- Huang, Huilin "Assessing the Aerosol Direct, Semi-Direct and Indirect Effects using global Circulation Model Simulation Results" (Xue, 2017)
- Nowak, Samuel L. "The Regulation of Urban Mobility Regimes: a Conjunctural Approach" (Leitner, Sheppard, 2017)
- Pearson, Amanda "Energizing Development? Renewable Energy Technologies and Social Enterprise in Rural India" (Faier, 2017)

UNIVERSITY OF SOUTHERN CALIFORNIA

- Bauman, Bailey "Finding Environmental Opportunities for Early Sea Crossings: An Agent-Based Model of Middle to Late Pleistocene Mediterranean Coastal Migration" (Kemp, 2017)
- Borgic, Quentina "Stone Tool Raw Material Distribution Network and Predictability Study in Southern Illinois" (Wilson, 2017)
- Botkin, Adlin "Exploring Remote Sensing and Geographic Information Systems Technologies to Understand Vegetation Changes in Response to Land Management Practices at Finke Gorge National Park, Australia Between 1989 and 1999" (Fleming, 2018)
- Burke, Kyle "Building a Geodatabase for American Pika Presence and Absence Data" (Ruddell, 2018)
- Conner, Philipp "Exploring Commercial Catch: Creating a Responsive Florida Fisheries Web GIS Using ASP/.NET, the Esri JavaScript API 4.x, and Calcite Maps" (Sedano, 2018)
- Cover, Drew "Preparing for the Next Major Southern California Earthquake: Utilizing HAZUS with Soils Maps and ShakeMaps to Predict Regional Bridge Damage and Closures" (Ruddell, 2018)
- Darby, Keith "Developing, Maintaining, and Employing Crowd-Sourced Geospatial Data in Support of Helicopter Landing Zone Surveys for Disaster Response Operations" (Wilson, 2017)
- Denson, Trevor "Majestic Yosemite Hotel Virtual Tour Application and Indoor Model" (Swift, 2017)
- Eselius, Jessica "Predicting Post-Wildfire ReGreen Rates: An Application of Multi-Factor Regression Modeling" (Kemp, 2017)
- Gliserman, Nicholas "Assessing the Reliability of the 1760 British Geographical Survey of the St. Lawrence River Valley" (Kemp, 2018)

- Goldsworth, Julia "Exploring Land Use Changes in the City of Irvine's Master Plan" (Wilson, 2017)
- Grotefend, Robert "A Web GIS Application for Airport Pavement Management" (Kemp, 2017)
- Hathaway, Pamela "Practical Application of ACS Place of Birth Data in an App Created for American Red Cross International Services" (Sedano, 2018)
- Jessup, Sheldon "Spatial Narrative of the Invasive Lionfish in the Western Atlantic and Caribbean Oceans: A GIS Story Map" (Sedano, 2017)
- Jurden, Charles "Utilizing Advanced Spatial Collection and Monitoring Technologies: Surveying Topographical Datasets with Unmanned Aerial Systems" (Fleming, 2018)
- Luttrull, James "Radar Horizon Estimation from Monoscopic Shadow Photogrammetry of Radar Structures: A Case Study in the South China Sea" (Fleming, 2018)
- Macauley Michele Development of a Web-GIS Application to Aid Marathon Runners in the Race Selection and Planning Process" (Fleming, 2018)
- Mock, Ryan "San Diego Wildfire Hazards Information Center Mashup" (Swift, 2017)
- Montgomery, Douglas "Philly Bike Report: A Mobile App for Mapping and Sharing Real-Time Reports of Illegally Blocked Bike Lanes in Philadelphia" (Sedano, 2017)
- Motyka, Alexandra "Applying GIS to Landscape Irrigation Systems: A Case Study of the Music Academy of the West Campus in Montecito, CA" (Ruddell, 2018)
- Munoz, Matthieu "Modeling Geopolitics in Tikal through Least Cost Paths" (Kemp, 2017)
- Prescott, Shannon "Using Geospatial Technology to Establish Marsh Bird Monitoring Sites for a Pilot Study in Maine in Accordance with the National Marsh Bird Monitoring Protocol" (Wilson, 2017)
- Stevens, Carrie "Trends in the Alaskan Bottom-Trawl Fishery from 1993-2015: A GIS-Based Spatiotemporal Analysis" (Kemp, 2017)
- Stone, Neil "Social Media Canvassing Using Twitter and Web GIS to Aid in Solving Crime" (Kemp, 2017)
- Torpey, Holly "Spatiotemporal Spillover in Lawn-to-Garden Program Participation in Long Beach, California" (Sedano, 2017)
- Woods, Angela "A Comparison of Two Earthquake Events in the City of Downey: The Puente Hills and Whittier Faults at 7.0 and 6.8 Magnitudes" (Fleming, 2017)
- Wright, Katherine "Web GIS as a Disease Management Workspace: Enabling Advocacy at Multiple Scales Across Multiple Continents with the Case of Tungiasis" (Swift, 2017)
- Yeung, Alvin "Generating Trail Conditions Using User Contributed Data Through a Web Application" (Kemp, 2017)
- Zoeller, Alexander "Mapping West Virginia Surface Mines with Hyperspectral Remotely Sensed Imagery Classification" (Fleming, 2017)

COLORADO

UNIVERSITY OF COLORADO BOULDER

PhDs:

- Correia, Joel "Life in the Gap: Indigeneity, Dispossession and land rights in the Paraguayan Chaco" (Bryan, 2017)
- Crawford, Alexander "The Influence of the Arctic Frontal Zone on Summer Cyclone Activity Today and in the Future" (Serreze, 2017)
- Kelly (Hicks), Julia "Influences of anthropogenic and bark beetles disturbances on breeding bird populations in the U.S. Rocky Mountains: Lessons from the American three-toed woodpecker" (Veblen, 2016)

- Mills, Taylor Joseph "Water chemistry under a changing hydrologic regime: investigations into the interplay between hydrology and water-quality in arid and semi-arid watersheds in Colorado, USA" (Anderson, 2016)
- Murton, Galen "Border Corridors: Mobility, Containment and Infrastructures of Development between Nepal and China" (Yeh, 2017)
- Naficy, Cameron "A Cross-Scale Assessment of Historical Fire Severity Patterns, Landscape Dynamics and Methodological Challenges in Mixed-Severity Fire Regimes of the Northern U.S. Rockies" (Veblen, 2017)
- Reiff, Eric "Backyard Authenticity: Urban Backyard Food Production as the New Agrarian Ethics of Authenticity in Practice" (Goldman, 2016)
- Rodd, Joshua "Humanitarianism, Health & a Hybrid Regime: The Geography of Cooperation, Conflict & Care in Refugee-Hosting Rural Uganda" (O'Loughlin, 2016)
- Schneider, Dominik "Understanding the Distribution of Snow Using Remotely Sensed Snow Covered Area" (Molotch, 2017)
- Todd, Meagan "Political Geographies of religions in Russia: Mosques, Churches, the State and Social Movements in Moscow" (O'Loughlin, 2017)
- Wright, Kathryn "Dreams of a Better Life: Senegalese Migrants in Harlem and Denver and a Re-Framing of the Relationship Between Development, Transnational Migration, Integration and Place" (Riosmena, 2017)
- Zoraghein, Hamidreza "Creating Temporally Consistent Small Area Census Units Using Advanced Combinations of Areal Interpolation and Spatial Refinement: Method Development and Assessment" (Leyk, 2017)

Masters (Arts):

- Chai, Rachel "Influences of Stand Development and Climate on Above-Ground Biomass in Sub-Alpine Forest Permanent Plots in the Colorado Front Range" (Veblen, 2017)
- Davies, Rebecca "Bridging the Data-Theory Divide Using Regionalization and Uncertainty for Neighborhood Identification" (Spielman, 2017)
- Gladfelter, Sierra Ross "Training Rivers, Training People: Interrogating the Making of Disasters and the Politics of Response in Nepal's Lower Karnali River Basin" (Yeh, 2017)
- Hindawi, Abdulsalam "Syrian Refugees in Germany: From Safe Haven to Challenges of Othering, Integration and European Settlement" (Fluri, 2017)
- Lang, Gretchen "'Difference in the mouth:' alimentiality, matter and meaning in foodways" (Oakes, 2016)
- Mahood, Adam "Long-Term Effects of Repeated Fires on the Diversity and Composition of Great Basin Sagebrush Plant Communities" (Balch, 2017)
- Weber, Kristy "Using Profiles of Water Vapor Flux to Characterize Turbulence in the Convective Boundary Layer" (Blanken, 2017)

UNIVERSITY OF DENVER

PhDs:

- Slayton, Ian Arthur "The Response of High Elevation Wetlands to Past Climate Change, and Implications for the Future" (Sullivan, 2017)
- Pons, Diego "Exploring Historical Coffee and Climate Relations in Southern Guatemala: An Integration of Tree Ring Analysis and Remote Sensing Data" (Taylor, 2017)

Masters (Arts):

- Martz, Corey J. "Urban Children's Experience of a Natural Place Outside of Denver" (Powell)
- Mateo, Emilio I. "Rock Glacier Hydrology in the San Juan Mountains, Colorado" (Daniels)

- Murphy, Blaise "Terracing, Land Management and Agricultural Soils in the Adagua Valley of the Southern Peruvian Andes" (Daniels)

Masters (Science):

- Atwood, Bradley "Python Scripts to Automate the Maintenance of a Parcel Database" (Hick)
- Blanco Castano, Marta "Towards Building a Community Recommendation System for Denver Homebuyers: A Geodemographics and GIS Approach" (Li)
- Coscia, Sandor "Interactive Web Mapping & Tool Development to Assist in Fiber Resource Management" (Hick)
- Failing, Joshua "Mapping Flight Coverage Footprints for Commercial Unmanned Aerial Vehicle (UAV) Delivery Systems" (Hick)
- Gonzales, Bryan "RTS Field Data Streamliner-The Development of a New Data Workflow" (Hick)
- Hoskins, Ben "Sea Level Rise and Impacted Populations in Boston, MA" (Hick)
- Keeney, Ryan "Denver's Streetcar Legacy and its Role in Neighborhood Walkability: An ERSI Story Map" (Boschmann)
- Lewis, Hannah "A Proposal for a Colorado Bird Field Guide that Integrates the Relationship of Bird Species to their Plant Communities" (Hick)
- Pfeiffer, Brian "Automated Breakline investigation Project" (Hick)
- Vier, Linda "Spatial Interpolation of Monthly Rainfall for the Community of Palmer Lake Colorado to Assist in Water Resource Management" (Hick)
- White, Kelsey "Bus Rapid Transit Feasibility Analysis for the Denver Metro Area" (Hick)

DELAWARE

UNIVERSITY OF DELAWARE

PhDs:

- Lawston, Patricia "Impacts of Irrigation on Land-Atmosphere Interactions in High-Resolution Model Simulations" (Hanson, 2017)
- Chatterjee, Sarmistha "River Basin Fragmentation, Climate Change and Perception of Surface Water Sustainability in the Central Great Plains of the United States" (DeLiberty, 2017)

Masters (Arts):

- Thayer, Nathan "Definition of Place and Negotiation of Belonging following Hispanic Immigration: Georgetown, Delaware 1990-2016" (Veness, 2017)
- Petersen, Micah "Understanding the Chinese Viewpoint: A Study of Chinese Migrants in Mozambique and South Africa and Their Perception of Local Africans" (Clarke-Sather, 2017)

Masters (Science):

- Goldman, William "Social Dimensions of Urban Heat Island Mitigation Using Community Gardens" (Veron, 2017)
- Schroth, Alexander "Modeling the Summertime Atmospheric Boundary Layer at Dome C, Antarctica" (Veron, 2016)
- Brianik, Matthew "Conceptualizing Wind Variability in Delaware" (Legates, 2017)
- Lee, Jessica "Satellite Tracking Antarctic Minke Whales (Balaenoptera bonaerensis) in a Dynamic Sea Ice Habitat along the Western Antarctic Peninsula" (DeLiberty, 2016)

FLORIDA

FLORIDA INTERNATIONAL UNIVERSITY

PhDs:

- Goridek, Abby “Jewish Women’s Transracial Epistemological Networks: Representations of Black Women in the African Diaspora, 1930-1980” (Patil, 2018)
- Huezo, Alexander “Contested Natures, Insecurities & Territorialities: The Aerial Eradication of Coca in Columbia” (Oslender, 2017)
- Lyon, Jaqueline “Inheriting Illegality: Race, Statelessness, and Dominican-Haitian Activism in the Dominican Republic” (Duany)
- Mariama, Jaiteh “Seeking ‘Friend with Benefits’ in a Tourism-Based Sexual Economy: Interrogating the Gambian Sexcape” (Padilla, 2018)
- Melendez, Elisa “For those About to Rock: Gender codes in the Rock Music Video Games Rock Band and Rocksmith” (Grenier, 2018)
- Mullenite, Josh “Engineering Colonialism: Race, Class, and the Social History of Flood Management in Guyana” (Hollander, 2018)
- Sarsilmaz, Defne “‘I am a Teacher, a Women’s Activist, and a Mother’: Political Consciousness and Embodied Resistance in Antakya’s Arab Alawite Community” (Smith, 2017)
- Van Vleet “Truffles Have Never Been Modern: An Actor-Network Theory Description of 150 Years of French Truffle Culture” (Hollander, 2018)
- Wright, Devon “Conservative Right-Wing Protest Rhetoric in the Cold War Era of Segregationist Mobilization” (Grenier, 2017)

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

PhDs:

- Douthat, Thomas “Adaptive Efficiency in Coffee Clusters: Resilience through Agglomeration, Global Value Chains, Social Networks, and Institutions” (Elliott, 2017)
- Habeeb, Dana “Exploring Urban Agriculture as a Climate Change Mitigation Strategy at the Neighborhood Scale” (Stone, 2017)
- Raymond, Elora “The Impact of Racial Segregation, Income Sorting and Risk-Based Mortgage Pricing on Housing Wealth Inequality: A Comparison Between Urban Regions in the United States” (Immergluck, 2017)
- Zhang, Wenwen “The Interactions between Land Use and Transportation in the Era of Shared Autonomous Vehicle: A Discrete Simulation Model” (Guhathakurta, 2017)

Masters (Science):

- Koo, Bonwoo “Spatio-temporal Patterns of Urban Tree Canopy and Environmental Equity in Atlanta” (Botchwey, 2017)
- Sperling, Elliot “Advancing Strategic Focuses through Performance-based Evaluation – the Growth of State DOT Approaches” (Ross, 2017)

Applied Research Papers (Thesis Alternative):

- Anand, Spandana “The Future of Transportation: Autonomous Vehicles” (Welch, 2017)
- Barrow, Megan “As Sea Level Rise in the Southeast, Are Transportation Planners on Board with Climate Justice?” (Welch, 2017)
- Bedsole, Matthew “Developing a Charitable and Targeted Property Tax Relief Fund: An Anti-Displacement Initiative for Atlanta’s Westside Neighborhoods” (Dobbins, 2017)
- Behera, Abhishek “Re-imagining Contemporary Urban Planning with Place-making” (Welch, 2017)

- Boyd, Nicholas “The Urban Forest and Environmental Justice: A Review of the Literature” (Botchwey, 2017)
- Bozarth, Ashley “Permanent Supportive Housing in the City of Atlanta: Transitioning to a Comprehensive Housing First Approach” (Immergluck, 2017)
- Brasgalla, Karina “Developing Community Schools Through the Co-location of Resources in El Paso, Texas” (Drummond, 2017)
- Burnette, Caroline “Predicting Revitalization: a descriptive narrative and predictive analysis of neighborhood revitalization in Atlanta, Georgia” (Guhathakurta, 2017)
- Butler, Catherine “Green Development Assessing Opportunities for the City of Atlanta” (Immergluck, 2017)
- Carnes, Sarah “Economic Success: Re-evaluating the traditional approach to economic development in order to broaden opportunity for all” (Leigh, 2017)
- Day, Anna “In Favor of Farm to Fork: An assessment of the local food system in metropolitan Atlanta” (Elliot, 2017)
- De Leon, David “Bridging the Gap: an Analysis of the Spatial Mismatch Hypothesis and Social Service and Affordable Housing Accessibility in Atlanta” (Welch, 2017)
- Debnath, Anindya “Assessing Public Transit Accessibility and Equity of 10-County Atlanta Region using General Transit Feed Specification (GTFS) Data” (Karner, 2017)
- Duckworth, Richard “Preparing for Light Rail in the Purple Line Corridor” (Karner, 2017)
- Estes, Emily “Do Young Children Affect Travel Behavior for Parents in Atlanta?” (Kim, 2017)
- Fleming, Ryan “Strip Clubs in Portland, Oregon and Atlanta, Georgia: The Tension between First Amendment Free Speech & Crime-related Secondary Effects” (Leigh, 2017)
- French, Emma “People-centered Planning for Smart Cities: Exploring the Use of Smart Cities Technologies in Efforts to Engage the Public in Planning in and around Proctor Creek Watershed” (Kim, 2017)
- Garnet, Dontrey “Metropolitan Parkway: Complete Street Redesign” (Dobbins, 2017)
- Hanson, Alex “Measuring the Impact of Complete Streets Projects on Bicyclist and Pedestrian Safety in Sacramento County, California” (Botchwey, 2017)
- Hashemi Totoghi, Shahaboddin “Toward a Sustainable Neighborhood: Examining the Impact of the Mixed-use Development on Neighborhood Energy Consumption” (Welch, 2017)
- Haston, Joshua “Planning the Next BRAC: Redevelopment Alternatives for Dobbins Air Reserve Base and Air Force Plant No. 6” (Stone, 2017)
- Howard, Jordan “Utilizing Transit-oriented Development Funds to Finance Affordable Housing Near Transit Corridors” (Drummond, 2017)
- Jeena, Zahra “Insight into the Incipient Smart Cities Phenomena in India” (Leigh, 2017)
- Kent, Margaret “Prioritizing Low-Stress Bicycle Accessibility in Baltimore” (Karner, 2017)
- Kong, Jing “Impact Analysis of the Built Environment on Quality of Life” (Welch, 2017)
- Lele, Shriram “Reimagining Local Neighborhoods & Employments in Lake City, FL” (Dobbins, 2017)
- Mara, Kevin “Large-Scale Mixed-Use Developments as Catalytic Real Estate Projects: Evaluating the Narrative of Neighborhood Revitalization” (Immergluck, 2017)
- Mayor, Phoebe “Striking the Balance between Neighborhood Change and Income Diversity Lessons from Metropolitan Atlanta” (Kim, 2017)
- Metal, Melanie “Tailoring Green Stormwater Infrastructure to Hawaiian Landscapes” (Drummond, 2017)
- Moreno, Marcela “Sustainable Wastewater Systems for Texas Colonias: Alternatives Analysis for El Paso County” (Stiftel, 2017)

- Park, Chulhong "Population Density and Urban Design Features' Relationship to Mental Health" (Drummond, 2017)
- Patterson, Grant "Arts-Based Neighborhood Revitalization Engaging Artists & Creative Entrepreneurs to Identify Policy Recommendations to Support Arts-Based Revitalization in South Downtown, Atlanta" (Kim, 2017)
- Ray, Ellen "MARTA in Clayton County: An Opportunity for Equitable Transit-Oriented Development" (Karner, 2017)
- Shelton, Austin "This Place Matters: Exploring Rural Planning through Funding a Rail-Trail in Harris County, Georgia" (Drummond, 2017)
- Silwal, Deepti "Planning for Earthquake Resilience in Heritage Settlements of Kathmandu Valley" (French, 2017)
- Smith, Cole "Building a More Sustainable Atlanta: An urban design review of multi-family development along the Atlanta Beltline" (Elliott, 2017)
- Smyth, Andrew "Investigation of Aircraft Wingtip Collisions on the Ground" (Ross, 2017)
- Yang, Wenhui "Analysis on Social Impacts of Atlanta Streetcar Systems Emissions" (Welch, 2017)
- Zeng, Tianran "Transit as Solution for Spatial Mismatch" (Welch, 2017)

GEORGIA STATE UNIVERSITY

Masters (Science):

- Balogun, Fatai "Investigating the Effect of Aging and Time on the Fate and Transport of Lead in Artificially Contaminated Tropical Soils" (2017)
- Bankhead, John "Comagmatic Evolution of the Boulder and Pioneer Batholiths of Southwest Montana" (2017)
- Dobson, Steve "A Geospatial Analysis: Impacts of Hurricane Matthew, St. Catherine's Island, Georgia" (2017)
- DuBose, David "Geochemical Signatures of Stream Capture in the Retreating Blue Ridge Escarpment, Southern Appalachian Mountains" (2017)
- Franklin-Mitchell, Tara "An Analysis of the Community Land Trust Model" (2017)
- Giri, Upendra "Evaluation of Stable Isotope Ratios within Meteoric, Surface, and Groundwater Within the Kathmandu Valley" (2018)
- Henson, Lanier "Surface Soil Metal and Metalloid Contamination within the Urban Environment of Atlanta, Georgia" (2018)
- Muchemi, Fancis "Spatiotemporal Variations of Land-Use and Land-Cover in the Nairobi River Watershed, and its Effects on the Inorganic Geochemistry of Nairobi River" (2018)
- Raulerson, Scott "Toward a Diffusive, Non-Destructive Approach to Measuring Stable Isotopes of Water within Tree Stems" (2018)
- Wang, Ruixue "Spatiotemporal Variation in Emotional Responses to 2017 Terrorist Attacks in London Using Twitter Data" (2018)

IDAHO

UNIVERSITY OF IDAHO

PhDs:

- Thompson, Courtney "Enhancing Natural Hazards & Vulnerability/Resilience Studies Using Social Theory and Spatial Statistics" (Dezzani, 2017)
- Feng, Wenlong "Climate Impacts on County-Level Variability in Winter Wheat Yield in the Columbia Basin" (Abatzoglou, 2017)

Masters (Science):

- Matsche, Daniel "A Geographically Weighted Regression Approach to Landslide Susceptibility Modeling" (Humes, 2016)

ILLINOIS

CHICAGO STATE UNIVERSITY

Masters (Arts):

- Habila, Murna "Monitoring Land Use/Land Cover Change using Remote Sensing data and GIS: A Case Study of Abuja and its Environs in Abuja; Northern-Eastern Nigeria"
- Lobban, Garry "The Use of GIS to Manage Location Planning of Secondary Schools: A Case Study in Clarendon, Jamaica"

NORTHERN ILLINOIS UNIVERSITY

PhDs:

- Allred, Kory J. "Quantified Modeling of Terrestrial Glacial Valleys and the Application to Mars" (Luo, 2017)
- James, Autumn C. "People, Place, and Perceptions: How Criminal Victimization Influences the Perception, Engagement, and the Navigation of Space" (Gallaher, Kremenec, 2018)

Masters (Science):

- Chun, Steven, E. "Predicting Major Peach Yield Reductions in the Midwest and Southeast United States" (Changnon, 2017)
- Fritzen, Robert C. "The Influence of a Pre-Existing Snow Pack on an Extratropical Cyclone. (Ashley, 2017)
- Moore, Andrea D. "Economic Base Changes in Counties Impacted by Military Base Closures" (Chen, James, 2017)
- Seijas-Clark, Claudia. "The Role of Socio-Economic Environmental Factors as Barriers to Community Resource Access" (Wilson, James, 2018)
- Seijas-Clark, Claudia. "Welsh Park: Establishing Identity, Improving Image and Increasing Usage (Wilson, James, 2018)

UNIVERSITY OF ILLINOIS

PhDs:

- Hu, Hao "CyberGIS-Enabled Spatial Decision Support for Supply Chain Optimization with Uncertainty Quantification" (Wang, 2018)
- Lewis, Quinn "Measuring Flow and Mixing at Stream Confluences Using Large-Scale Particle Image Velocimetry, In-Stream Techniques, and Small Unmanned Aerial Systems" (Rhoads, 2018)
- Rai, Pronoy (Birkenholtz, 2018)
- Ramprasad, Vijay "Institutions and Social-Ecological Tradeoffs in Indian Agriculture" (Chhatre, Ashwini, 2017)
- Umar, Muhammad "Satellite Remote Sensing of Mixing Dynamics at a Large River Confluence" (Rhoads, 2017)
- Yu, Mingjing "Analysis of Sediment Dynamics in Intensively Managed Landscapes" (Rhoads, 2018)

Masters (Science):

- Kong, Wenhan, MS GIS-PSM, 2018
- Lee, Te-Yao, MS GIS-PSM, 2018
- Yang, Yujian, MS GIS-PSM, 2018

NORTHEASTERN ILLINOIS UNIVERSITY

Masters (Arts):

- Kunkel, Nicholas "Exploring the Possible Ethical Issues that GIS Professionals May Face with GIS Theory and Application" (Liu, 2018)
- Thomas, Nicole "GIS-based Spatial Analysis on Driving Factors of Gentrification in Chicago from 2000-2010" (Liu, 2018)

Vander Kelen, Amanda "Cat got your Tongue? A Discourse Analysis of Feral Cat Management in Chicago, Illinois" (Grammenos, 2018)

Research Papers:

Mudjer, Neil "The Value of GIS to Cultural Ecosystem Services" (Peimer, 2017)
Waple, Andrew "Influences on Perception of River Landscapes" (Storie, 2017)

**SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE**

Masters (Science):

Pritsolas, Joshua "Principal Component Analysis and Spatial Regression Techniques to Model and Map Corn and Soybean Yield Variability with Radiometrically Calibrated Multitemporal and Multispectral Digital Aerial Imagery" (Pearson, 2018)

Graduate Research Project Presentations:

Frank, Jamie "Urban Tree Inventory: Methodology and Practice" (Hu, October 2017)
Laurent, Dylan "Pollution, Real Estate, and Taxes: A Case Study of Roxana, Illinois" (Hanlon, 2018)
Maxey, Noelle "Healthy Food Access in Madison County, Illinois: Mapping Food Deserts and Public Transportation Systems" (Brown, 2018)
Sherman, Ross "Creating a Landslide Susceptibility Map of Kentucky Using the Maximum Entropy Model" (Shouse, 2018)

INDIANA

BALL STATE UNIVERSITY

Masters (Science):

Algarin-Ballensteros, Jose "Meteorological Factors Affecting Airport Operations during the Winter Season in the Midwest" (Hitchens, 2017)
Eckstein, Nicholas "Undergraduate Forecast Skill by Class Level and Participation Time in the WxChallenge National Weather Forecast Contest: 2005-2016" (Zimmermann, 2018)
Johnson, Zachary "Effects of Evapotranspiration on Longitudinal Dryline Position in the Great Plains" (Hitchens, 2017)
Lange, Daniel "Applying Freely Available Remote Sensing Data Products to Improve Natural Resource Management: Case Studies of Street Tree Benefits Analysis and Wetlands Detection" (Berland, 2017)
Pennington, Caitlin "The Change in Flood Extent over the West Fork of the White river (2005-2015)" (Zimmermann, 2017)
Saylor, Caleb "Exploring the Relationship between Wet-Bulb Globe Temperature and Land Use/Land Cover Type" (Zimmermann, 2017)
Wilson, Caleb "Spatiotemporal-Based Tornado Climatology for Kansas and a Local Time-Based Analysis of Storm Prediction Center Categorical Convective Outlooks for Kansas" (Call, 2017)

INDIANA UNIVERSITY

PhDs:

Yoder, Landon "Restoring Everglades Water Quality: Analyzing the Institutional Dimensions of Agricultural Water Management" (Akhter, 2017)
Sharma, Nitasha "Dark Tourism in India: Rituals and Representation of Death" (Knudsen, 2018)

Masters (Science):

Blekking, Jordan "An Institutional Analysis of Hybrid-Maize Seed Availability for Smallholder Farming Systems" (Evans, 2017)

IOWA

UNIVERSITY OF NORTHERN IOWA

Masters (Arts):

Isubova, Narmina "A Multiscale Assessment of Wind Energy Resources and Suitability in the Russian Arctic" (Petrov, 2017)
Zbeed, Salma "The New North: Patents and Knowledge Economy Analysis in Alaska" (Petrov, 2017)
Gevaerd Montibeller, Athila "Estimating Energy Fluxes and Evapotranspiration with an Unmanned Aircraft System in Ames, Iowa" (Liang, 2017)
Heilman, Joel "Spatial Competition in Airport Markets: An Application of the Huff Model" (Strauss, 2017)
Miller, Luke "The Influence of Child Safety Warning Signs on Vehicle Speeds" (Strauss, 2017)
Ostensen, Aurora "The Impact of Climate Change on the Past and Future Mass Balance of the Nigardsbreen Glacier, Norway" (Dahms, 2017)
Jensen, David "Spatial Disparities and Socio-Economic Conditions: A Food Desert Analysis of Greater Des Moines, Iowa" (Strauss, 2018)
Atkins, Dane "Risk Perception in Automotive Environments" (Strauss, 2018)
Padilla, Aaron "Landscape and Climate Drivers of Harmful Algal Blooms in Iowa" (Dietrich, 2018)

KANSAS

FORT HAYS STATE UNIVERSITY

Masters (Science):

Rusk, Adam "UAS-Collected Multispectral Imagery for the Identification of Rangeland Vegetation in a Southern Mixed-Grass Prairie" (Schafer, 2017)

Non-Thesis Masters (Science):

Hills, Dalton (Lisichenko, 2017)

KANSAS STATE UNIVERSITY

PhDs:

Granco, Gabriel "Land Change Dynamics in the Brazilian Cerrado: The Interaction of Biofuels, Markets, and Biodiversity" (Caldas, 2017)
Marston, Bryce "Influence of the Mountain Pine Beetle Disturbance on Large Wood Dynamics and Channel Morphology in Mountain Streams" (Martin, 2017)
Thornburg, Gina "Who Benefits?: The Intersection of Governance and Agency in Farmers' Engagement with the Oklahoma Farm to School Program" (Paul, 2017)

Masters (Arts):

Allen, Matthew "Stakeholder Perceptions of Flooding Issues in the Wildcat Creek Watershed" (Harrington, Jr., 2017)
Braget, Austin "Time Series Analysis of Phenometrics and Long-Term Vegetation Trends for the Flint Hills Ecoregion using Moderate Resolution Satellite Imagery" (Hutchinson, 2017)

- Braget, Mitchell "A Novel Approach to Mapping Floodplain Extent in the Chobe River Basin from 2014 to 2016 using a Training Library" (Goodin, 2017)
- Brooks, Matthew "Countering Depopulation in Kansas: Understanding Perceptions of Rural Life and the Effectiveness of the Rural Opportunity Zone Program" (Max Lu, 2017)
- Bryant, Johnny "The Use of Remotely Sensed LIDAR and Multispectral Imagery for Modeling Eastern Redcedar Biomass within North Eastern Kansas" (Goodin, Price, 2017)
- Fischer, Amariah J. "Developing and Evaluating a Geographic Information Dashboard to Improve Spatial Task Performance" (Hutchinson, 2018)
- Luo, Lei "Proposing an Improved Surface Dryness Index to Estimate Soil Moisture Based on the Temperature Vegetation Dryness Index" (Goodin, 2017)
- Mellicant, Emily. "Geochemical Signatures of Parent Materials and Lake Sediments in Northern Minnesota" (Kendra McLaughlan, 2017)
- Safaei, Samira "Developing Global Dataset of Salt Pans and Salt Playas using Landsat-8 Imagery: A Case Study of Western North America" (Wang, 2017)
- Walter, Blake "An Enhanced Inventory of Global Dams and Reservoirs and their Contribution to Sea Level" (Jida Wang, 2018)

UNIVERSITY OF KANSAS

PhDs:

- Dobbs, Kevin E "Toward Rapid Flood Mapping Using Modeled Inundation Libraries" (Egbert, 2017)
- Eichhorst, Jean M "The Republican River Basin and Three Irrigation Districts: A Socio-Hydrology Profile" (Warf, 2017)
- Holroyd, Megan L "Landscapes of Mount Kilimanjara Tourism: Residual, Dominant, Emerging and Excluded Cultures" (Egbert, Myers, 2017)
- Thelen, Austen J "Regional Identity and Constructive Regionalization in the North Caucasus: Group Perceptions and Nuances from Inside the Region" (O'Lear, 2017)
- White, Travis M "From Existing Practices to Best Practices: Improving the Quality and Consistency of Participant Assessment Methods in Cartographic User Studies" (Egbert, Slocum, 2017)

Masters (Arts):

- Koch, Hugo Martin "Digital Utilities: A Kansas Perspective on Bridging Internet Divides with Municipal Broadband" (Warf, 2017)
- McKinney, Lisa M "Grassland Breeding Bird Response to Landscape, Climate, and Spring Burning in the Tallgrass Prairies of Kansas" (Egbert, 2017)
- Penner, Will H "Food Sovereignty: A Critical Case" (Brown, 2017)
- Remmers, Ruth H "Perceptions of the Environment and of Tourism in the Altai Republic, the Russian Federation" (Diener, 2017)
- Sears, Laurel B "The Public Voice and Sustainable Food Systems: Community Engagement in Food Action Plans" (Brown, 2017)
- Shofi, Shofi Uli Azum "An Empirical Analysis of Bike Safety in Lawrence Using Road Geometry and Traffic Characteristics" (Lei, 2017)
- Smith, Paula I "Challenges to Sámi Indigenous Sovereignty in an Era of Climate Change" (Egbert, 2017)

Masters (Science):

- Bishop, Prescott R "Impact of Varying the Magnitude of Cloud-top Radiative Cooling on Stratocumulus Cloud Behavior" (Mechem, 2017)
- Cleary, Andrew CD "Geoprocessing Approaches to Delineate Impoundments and Characterize Subcatchments within Kansas Reservoir Drainages" (Egbert, Li, 2017)

- Delaroy, Jeffrey D "The Impact of Temporal Aggregation on the Priestly-Taylor Method for Evapotranspiration" (Brunsell, 2017)
- Fisher, Andrew M "Inconsistencies in the Weather Research and Forecasting Model of the Marine Boundary Layer Along the Coast of California" (Rahn, 2017)
- Grady, Charles J "Delineating Sea-Level Rise Inundation: An Exploration of Data Structures and Performance Optimization" (Li, 2017)
- McMichael, Lucas A "Assessing the Mechanisms Governing the Evolution of Afternoon Marine Stratocumulus using Large-Eddy Simulation" (Mechem, 2017)

KENTUCKY

UNIVERSITY OF LOUISVILLE

Masters (Science):

- Jeffords, Thomas "Potential for Developing Run-of-River Systems in Eastern Kentucky: A GIS Approach to Site Suitability" (Day, 2018)
- Reed, Philip "Effectiveness of Remotely Sensed Built Areas for Constraining and Modelling Gridded Population Estimates" (Gaughan, 2018)
- Seay, Garrett "Assessing the Curve Number Method for Modeling Urban Watershed Stormwater Runoff across Louisville, KY" (Day, 2018)
- Sherretz, Joshua "Dixie tornados: A Spatial Analysis of Tornado Risk in the U.S. South" (Zhang, 2018)
- Wright, Nathan "Greater London in the 21st Century: Assessing Coastal Flooding Migration Preparedness and Regional Population Risk in the Face of Projected Sea-level Rise" (Mountain, 2018)

LOUISIANA

LOUISIANA STATE UNIVERSITY

PhDs:

- Eachus, Joshua "Weather Communication on Twitter: Identifying Popular Content and Optimal Warning Format Via Case Studies and a Survey Analysis" (Keim, 2017)
- Feathers, Valerie "Human-Environment Interactions: Sea-Level Rise and Marine Resource Use at Eleanor Betty, an Underwater Maya Salt Work, Belize" (McKillop, 2017)
- Gilliland, Joshua "Brazilian surface and upper-level wind characteristics based on ground and model observations from 1980 to 2014" (Keim, 2017)
- Greensword, Sylviane "Producing 'Fabulous': Commodification and Ethnicity in Hair Braiding Salons" (Jackson, 2017)
- Harrington, Victoria "Digital Osteology: 3D Surface Scanning Methods for the Os Coxa" (McKillop, 2017)
- Kamau, Peter "Elephants, Local Livelihoods, and Landscape Change in Tsavo, Kenya" (Sluyter, 2017)
- Morris, Lauren "Ports Resilience Index: Participatory Methods to Assess Resilience" (Colten, 2017)
- Ouellette, Gilman "Paleoenvironmental Reconstruction Using Coral Microatolls (Sp. *Siderastrea siderea*) From the Gulf of Gonâve, Haiti" (DeLong, 2017)
- Patnukoa, Areerut "GIS Analysis of Dvāravāṭi Dharmacakras and the Rise of Buddhism in Thailand" (McKillop, 2017)
- Simms, Jessica "Grounds for Displacement: Issues of Migration on Louisiana's Disappearing Coast" (Colten, 2017)
- Wang, Bo "Assessing Morphodynamics of the Lower Mississippi River from 1985 to 2015 with Remote Sensing and GIS Techniques" (Lei Wang, 2017)

Xiang, Hanyu "Spatio-temporal modeling of Louisiana Land Subsidence Using High-Resolution Geo-Spatial Data" (Lei Wang, 2017)

Masters (Arts):

Berryhill, Lucie Rivers "Examining Limestone Use at Byrd Hammock South (8WA30), Wakulla County, FL" (Saunders, 2017)
Bodoh, Dominique "Non-metric Cranial Differentiation between Asian and Native American Populations" (Lisit, 2017)
Dilores, Kurt "Evidence of Sea-Level Rise Shown From Analysis of Marine Sediment at Five Underwater Sites at the Paynes Creek Salt Works, Belize" (McKillop, 2017)
Jesch, Jacob "Scaling Relationships Between Cranial Morphological Features and Cranial Capacity in Modern Humans" (Tague, 2017)
Johnson, Kelsey "Ancient Maya Obsidian Trade: Arvin's Landing and Foster Farm, Belize" (McKillop, 2017)
Neuman, Maddisen "A comparative study of the effects of river flow on decomposition" (Brophy, 2017)
O'Keefe, Joseph "Feasting in Florida: Evidence of Swift Creek Ceremonial Feasting and Multi-Group Interactions at Byrd Hammock South (8WA30), Wakulla County, FL" (Saunders, 2017)
Stanco, Alyxandra "Vertebral Pathologies and Implications for Economic Lifestyle Changes in Two Prehistoric Skeletal Populations" (Tague, 2017)
Sutherland, Kenneth "Pots, Pans, and Politics: Feasting at Early Horizon Nepeña, Peru" (Chicoine, 2017)
Wiegiers, Emily "Language Use in Forensic Settings" (Listi, 2017)

Masters (Science):

Brady, Jana "Reading Between the Vines: Analyzing Climate Change Adaptive Capacity in the Tulbagh Valley Wine Industry, South Africa" (Marks, 2017)
Cao, Wenjia "Impacts of Particulate Matter on Gulf of Mexico Tropical Cyclones" (Rohli, 2017)
Collins, Coryn "Impacts of ENSO on Tornado Frequency, Intensity and Geography across the Eastern U.S. (Keim, 2017)
Hull, Lauren "Composting the Garden: Hybrid Geographies of Baton Rouge Urban Gardeners" (Mathewson, 2017)
Jiang, Anliu "Crime Analysis in Baton Rouge" (Meng, 2017)
Yuan, Jian'guo "Spatial and Temporal Variability of Tropical Cyclone Strikes in Japan" (Trepanier, 2017)

MASSACHUSETTS

CLARK UNIVERSITY

PhDs:

Bonila, Lauren L. "Extractive Infrastructures: Social, Environmental, and Institutional Change in Resource-Rich Mongolia"
Cuba, Nicholas Joseph "Interannual variability in the extent and intensity of tropical dry forest deciduousness in the Mexican Yucatán (2000-2016): Drivers and Links to Regional Atmospheric Conditions" (2016)
Elmes, Arthur Francis Marett "Assessing the Impact of Asian Longhorned Beetle in Worcester, MA: Thermal Effects, Community Responses, and Future Vulnerability" (2017)
Kenney-Lazar, Miles Richard "Resisting with the State: The Authoritarian Governance of Land in Laos" (2016)
Locke, Dexter Henry "A New Look at Residential Ecosystems Management: Heterogeneous Practices and the Landscape Mullets Hypotheses" (2017)
Mietkiewicz, Nathan Paul "Interactions between Bark Beetle Outbreak and Wildland Fire in Intermountain Subalpine Forests of the Western United States: Legacies and Future Projections under a Changing Climate" (2016)

Nimal, Padini "Disembodiment and Deworlding: Taking Decolonial Feminist Political Ecology to the Ground in Attappady, Kwala" (2017)

Sphar, Jefferson Alex "Politics, State Power and Policies: Exploring the Contemporary Nature of Economic Governance Through the Case of Brazil" (2016)

Surprise, Kevin "Preempting the second contradiction: The Political Economy of Solar Geoeengineering" (2016)

Masters (Arts):

Arakwiye, Bernadette "A Framework for Assessing Forest Restoration Potential and its Application to a Post-Conflict Landscape in Western Rwanda" (Eastman, Rogan, 2017)
Santiago, Melishia I. "Quantifying Chromophoric Dissolved Organic Matter (CDOM) Distribution and Sea-Ice Extent in the Bering, Chukchi, and western Beaufort seas of the Pacific Arctic Region using in-situ and Satellite Remote Sensing Measurements" (Frey, 2017)
Sauls, Lara Aileen "Constructing Territory: Regional Coalitions, Global Environmental Governance, and the Quest for Development Alternatives in Mesoamerica" (Bebington, 2016)
Turker, Kaner Atakan "Assembling Community Economies in East and Southeast Turkey" (Murphy, 2016)

Masters (Science):

Cooley, Savannah "Assessing the Impact of Drought in Guanacaste, Costa Rica and Evaluating Potential Contributions of ECOSTRESS Evapotranspiration Data to Improve Drought Estimation" (Williams 2017)
Fuchino, Yuka "Mapping Habitat Connectivity for Three African Elephants in the Tarangire-Maryann Ecosystem using GPS Telemetry and Circuit Theory Modeling" (Rogan, 2017)
Johnson, Kim "Characterizing the Impacts of Coal Mining on Forest and Protected Areas in Sumatra, Indonesia (2000-2004)" (Rogan, 2017)
Landesman, Katherine "Modeling the Vulnerability of Mangrove Forests to Conversion to Aquaculture in Myanmar" (Eastman, 2017)
Rosenblum, Hannah "Characterizing drivers of wildfire ignition in southern California Mediterranean-type" (Rogan, 2017)
Scott, Warren "Annual cycles of sea ice, wind and primary productivity in the Cape Bathurst and Saint Lawrence Island Polynyas, 1998-2015" (Frey, 2017)

Truong, Chung "Improved calibration of the near real-time forest loss detection system in Vietnam using Sentinel and Landsat satellite imagery" (Rogan, 2017)

MICHIGAN

CENTRAL MICHIGAN UNIVERSITY

Masters (Science):

Robinson, Chelsea "Effects of Land Cover Change on Tornado Locations" (Becker, 2017)
Tracy, Kevin "The Clustering of Zip Codes in the United States" (Heumann, Benjamin, 2017)
Verhelle, Aaron "Mapping Mosquito Breeding Sites in Monitor Township, MI" (Becker, 2017)

MICHIGAN STATE UNIVERSITY

PhDs:

Feng, Jia "Migrant Livelihood and Business in Urban China: The Case of Henancun and Recycling in Beijing" (Chen, 2016)

- Li, Xue "Sustainable Urban Development Under a Coupled Human-Land-Atmospheric Modeling Framework: the Case Study of Urumqi, China" (Messina, 2017)
- Rijal, Ishara "Use of Water Mist to Protect Tree Fruits from Spring Frost Damage" (Andresen, 2017)
- Su, Yahn-Jauh "The Carbon Sequestration and Soil Respiration After Land Use Conversion in Biofuel Cropping Ecosystems" (Chen, 2017)

Masters (Science):

- Arcand, Samuel "The Effects of Realistic Irrigation on the Great Plains Low-Level Jet" (Luo, 2017)
- Clark, Caitlin "Pollen-Based Landscape Reconstruction of an Upper Mississippian Agricultural Site at Hovey Lake, Indiana, USA" (Yansa, 2017)
- Ronnei, Nicholas, "A Minimalistic Data Distribution System to Support Uncertainty-aware GIS." (Shortridge, 2017)
- Walkowiak, Toni, "Freshwater Resources: An Evaluation of Michigan Residents' Perception of Wetland Ecosystem Services" (White, 2017)

WESTERN MICHIGAN UNIVERSITY

Masters (Science):

- Anim-Preko, Stephen "State-Wide Patterns in Diabetes Screening Service Utilization: Comparing Medicaid, Blue Care Network and Blue Cross Blue Shield of Michigan" (Baker, 2017)
- Arnold, Dale Edward "Veterans' Satisfaction with Veterans' Administration Healthcare Systems" (Veeck, 2017)
- Ayon, Bandhan Dutta "Snow and Non-Snow Events Based Winter Traffic Crash Pattern Analysis and Developing Lake Effect Snow Induced Crash Count Prediction Model" (Ofori-Amoah, 2017)
- Chapman, Keith W "A Location Allocation Model for Retention Basin Placement on Vacant Land in Detroit, MI" (Lemberg, 2017)
- Filbin, Ryan Justin "Modeling Channel Response to Dam Removal in Lansing, Michigan, Using SWAT" (Zhu, 2017)
- Hillmeyer, Katelyn Deann "An Intra-Site Spatial Analysis of Fort St. Joseph (20BE23) in Niles, MI" (Baker, 2017)
- Lorenzo, José Ernesto Fernandez "Tourism Planning and Local Community Participation: Veron- Punta Cana Municipal District, Dominican Republic" (Yang, 2017)
- Muhammad, Sultan "Cultivating the Concrete Jungle: Examining Urban Agriculture in the Motor City-Detroit, MI" (Ofori-Amoah, 2017)
- Tarver, Ashley Lynn "Assessing Changes in Land Cover in Southeast Louisiana from 2001 to 2011 Using Time-Series National Land Cover Data" (He, 2017)
- Watkins, Jacob A. "Measuring Quality of Life for Internal Migrants Working Urban Renewal Sites in Shanghai, China" (Veeck, 2017)

MINNESOTA

UNIVERSITY OF MINNESOTA-TWIN CITIES

PhDs:

- Cesafsky, Laura "Divided Together: Traffic and Democratic Life in Bogotá." (Braun, 2017)
- McDaniel, Benjamin "At Odds with Progress: An Analysis of Minnesota's Municipal Tax Legislation, Metro-Area Fiscal Control, and the Taxpayer's Income Conundrum, 2003-2012." (Squires, 2017)
- Nelson, Sara "Neoliberal environments: Crisis, Unterrevolution, and the nature of value." (Braun, 2017)

Masters (Arts):

- Liang, Yingbin Plan B. (Manson, 2016)

Masters (Geographic Science):

- Austin, Sara "Professional GIS portfolio." (McMaster, 2016)
- Cahalan, Robert "Professional GIS portfolio." (Kne, 2016)
- Dirie, Fartun "Professional GIS portfolio." (McMaster, 2017)
- Gardner, Adam "Professional GIS portfolio." (Matson, 2017)
- Mooar, Ethan "Professional GIS portfolio." (McMaster, 2017)
- Moore, Jeremy "Professional GIS portfolio." (Lindberg, 2017)
- Reim, Carl "Professional GIS portfolio." (Kne, 2016)
- Reinhart, Jeffrey "Professional GIS portfolio." (Lindberg, 2017)
- Samuelson, Andrea "Professional GIS portfolio." (McMaster, 2017)
- Sangle, Sharvari "Professional GIS portfolio." (Sward, 2016)
- Schaps, Mitchell "Professional GIS portfolio." (McMaster, 2017)
- Stobb, Rachel "Professional GIS portfolio." (Bolstad, 2017)
- Treichel, Walter Kent "Professional GIS portfolio." (McMaster, 2016)

MISSOURI

UNIVERSITY OF MISSOURI-COLUMBIA

Masters (Arts):

- Boese, Ian "Stadiums and Sports Entertainment Districts on the Landscape: An Urban Sports-Anchored Entertainment Development Model" (Hurt, 2018)
- Linglingue, Madi "Assessment of the Variability of Spatial Interpolation Methods Using Elevation and Bore Hole Data over the Magmont-Mine Area, Southeast Missouri" (Urban, 2017)
- Reece, David "From Research to Relationship: Towards Affinity-Based Scholarship and Indigenous Community Assistance" (Hobbs, 2018)
- Ullestad, Mollie "University Student Indigenous Intercultural Sensitivity and Short-Term Study Abroad" (Palmer, 2018)
- Venigalla, Lasya "A Remote Sensing Analysis of the Grand River Grasslands Using Sentinel-2 Satellite Imagery: A Comparison of Land-use / Land-cover Classifications using Per-Pixel and Object-Oriented Procedures" (Blodgett, 2018)

MONTANA

MONTANA STATE UNIVERSITY

PhDs:

- Sando, Linnea "Sheep Country in Three Western American Localities: Place Identity, Landscape, Community, and Family" (Wyckoff, 2018)

Masters (Science):

- Anderson, Colter "Strategic Framework and Provenance of the Lower Bell Supergroup (Newland Formation), Helena Embayment, Central Montana" (Lageson, 2017)
- Grace, Nicholas "Landslide Morphology and its Insight into the Timing and Causes of Slope Failure: Case Study of Post-Glacial Landslides in Yellowstone National Park" (Dixon, 2018)
- Quinn, Colin "Soil Storage on Steep Forested and Non-Forested Mountain Hillslopes in the Bitterroot Mountains, MT" (Dixon, 2018)
- Saly, Diana "Using Time Lapse Photography to Document Terrain Preferences of Backcountry Skiers" (Hendriks, 2018)
- Scofield, Garrett "Analysis of Hadrosaur Teeth from Egg Mountain Quarry, a Diffuse Microsite Locality, Upper Cretaceous, Two Medicine Formation, Northwest Montana" (Varricchio, 2018)
- Sykes, John "Travel Behavior and Decision-Making of Lift Access Backcountry Skiers" (Hendriks, 2018)

Zoanni, Dionne "“All the Answers are in Our Culture”: Integrating Traditional Knowledge Systems into Tribal Water Governance on Fort Peck Indian Reservation, Montana” (McEvoy, 2017)

UNIVERSITY OF MONTANA

Masters (Science):

Juric, Ashley "Managing Mining Pollution: The Case of the Water Quality Governance in the Transboundary Kootenai/Y" (Halvorson, 2018)

Kline, Nicholas "Utilization of Landsat Imagery to Assess the Impacts of Oil and Gas Extraction on the Tazovsky Peninsula, Siberia" (Klene, 2017)

Kranitz, Rebecca "The Effect of the State Giant Traveling Map of Montana on the Geographic Literacy of Fourth Graders in Western Montana" (Halvorson 2017)

Medkouri, Ismail "Reproduction of Space in the Mountains of Morocco – A Case Study in the Western Rif" (Halvorson, 2018)

Sankar-Gorton, Jedd "Forty Years on the Transboundary Flathead: Assessing Environmental Governance Responses to the Threat of Coal Mining" (Halvorson, 2018)

Wold, Nathaneal "Participatory Web GIS Design – A Sustainable Recreation Decision Support System for Missoula County" (Shively, 2017)

NEBRASKA

UNIVERSITY OF NEBRASKA-LINCOLN

PhDs:

Shepard, Robert "A Geographical Analysis of Housing, Segregation and Inequality in American Cities, 1860-1870" (Wishart, 2017)

Masters (Arts):

Cruz, Christian "Assessing Landslide Susceptibility with GIS Using Quantitative and Qualitative Methods in Knox County, Nebraska" (Hanson, 2017)

Husa, Andrew "A Historical Geography of Six and Eight-Man Football in Nebraska" (Wishart, 2017)

Lehnert, Joseph "Utilizing a Consumer-Grade Camera System to Quantify Surface Reflectance" (Zygielbaum, 2017)

Malek-Madani, Gunnar "Modelling Gross Primary Production of Midwest Maize and Soybean Croplands with Satellite and Gridded Weather Data" (Walter-Shea, 2017)

Yao, Roy "Spatial Analysis of Ethnic and Racial Segregation in the Chicago Metropolitan Area, 2000-2014" (Archer, 2017)

NEW JERSEY

RUTGERS UNIVERSITY

PhDs:

Barone, Daniel M "Determining Human Dominance Thresholds for Barrier Islands along the New Jersey Coast"(Nordstrom, 2016)

Duffy-Tumas, Amelia L "Gendered Seascapes in Senegal" (Schroeder, 2017)

Martinez Kruger, Raysa J "Garbage Governmentalities and Environmental Justice in New Jersey" (Lake, 2017)

Moustafa, Samiah E "Assessing Greenland Ice Sheet Meltwater Losses at the Pixel and Drainage Basin scale" (Rennermalm, 2017)

Sharpe, Charlene L "Building Resilience – Community Experiences at the Intersection of the Food System, Climate Change and Natural Disaster in a Small Island Developing State" (Mitchell, 2017)

NEW MEXICO

NEW MEXICO STATE UNIVERSITY

Masters (Applied Geography):

Baker, Holly "Modeling the Effects of Woody Plant Removal on Soil Erosion using Mobile Crowdsourcing and Geospatial Data and Methods" (Buenemann, 2017)

Mundis, Stephanie "Monitoring and Modeling the Distribution of the Mosquito Vector *Aedes aegypti* in Southern New Mexico and West Texas" (Buenemann, 2017)

Lopez, Manuel K. "Debris Flow Potential Following Wildfire in the Upper Santa Fe Municipal Watershed, New Mexico" (Dugas, 2017)

Pardee, Renee "Weighted Sum Land Prioritization Model for Southwest New Mexico and Southwest Arizona"(Wright, 2017)

Surova, Erica "Reproducing Inequality? A Geospatial Analysis of School Attendance Zones in Southern New Mexico" (Brown, 2017)

Sabie, Robert "Utility of Remote Sensing for Monitoring and Assessing Surface Coal Mine and Reclamation in Drylands" (Buenemann, 2017)

UNIVERSITY OF NEW MEXICO

Masters (Science):

Allen, Akashia "Evaluating Field-and Image Based Remote Sensing Methods for Monitoring Vegetation Change at the Sevilleta National Wildlife Refuge" (Lippitt, 2018)

Brock, Courtney "Urban Animals: GIS Analysis of Stray Canines and Felines in Albuquerque, New Mexico" (Lane, 2018)

Hajic, Hayley "Water Quality Assessment in the Santa Fe River: Tracking Pollution Sources Via Qualitative Polymerase Chain Reaction Analysis" (Duvall, 2018)

Hawk Ajanette "Impact of Drought on Land Cover Changes in Dine' Bike'yah--A Study through Remote Sensing" (Lippitt, 2017)

Motsinger, Jane "Virtuous Discourse in the Specialty Coffee Sector: How Social Responsibilities Practices Fragment pursuits for a Supply Chain" (Brulotte, 2018)

Sheets, Sagert "Implementing the Distance Decay Function in Measures of Spatial Access to Health Resources and Interpreting Its Effect on Results: A Tool for Geographic Information Systems" (Duvall, 2017)

Thompson, Samuel "How the Proximity of Crime Impacts Housing Prices: A Hedonic Pricing Study of Inner-Loop Houston, TX" (Lippitt, 2018)

Taraschi, Zachary "Evaluating the Utility of Object Based Image Analysis for Ecological Monitoring of Pinon-Juniper Woodlands" (Lippitt, 2018)

Valentin, Gladys "Assessment of Vegetation Response to Wildfire at Bandelier National Monument, New Mexico Case Study of the las Conchas Fire" (Lippitt, 2017)

NEW YORK

GRADUATE CENTER CUNY

PhDs:

- Calienes Deza, Christian "The Production of Space: Indigenous Resistance Movements in the Peruvian Amazon" (Miyares, 2018)
- Goffe, Rachel "Capture and Abandon: Social Reproduction and Informal Land Tenure in Jamaica" (Gilmore, 2017)
- Papanikolaou, Spiridon "Seasonal Characterization of New York City Urban Thermal Environment" (Ahearn, 2018)
- Pillich, Jose "Heat Stress Vulnerability: Analyzing the Socio-Environmental Factors Influencing Heat Stress Hospital Visits and Implementation of Green Infrastructure in New York City" (Klein, 2018)

HUNTER COLLEGE CUNY

Masters (Arts):

- Jimenez Rivera, Erika "Assessment of the environmental Impacts of the Urban Growth Using GIS and Remote Sensing in the City of Guayaquil, Ecuador" (Pavlovskaya, 2018)

SYRACUSE UNIVERSITY

PhDs:

- Speer, Jessie "Losing Home: Housing, Displacement and The American Dream" (Mitchell, 2018)

Masters (Arts):

- Aslami, Sohrob "Redefining the Border between Two Worlds" (Koch, 2018)
- Chambers, Collin "The Peoples Republic of China and The Global Class War" (Mitchell, 2017)
- Furnaro, Andrea "A Political Ecology of Mining Extraction in Chile," (Perreault, 2018)
- Hamlin, Madeleine "Chicago's Carceral Geographies: Public Housing and Prisoner Reentry in the City" (Mitchell, 2017)
- Ipsen, Heather "Catching the Cloud and Pinning it Down: The Social and Environmental Impacts of Data Centers" (Wilson, 2018)
- MacDonald, Katie "When our Crops Burn, We Burn: Household Cultivation, Inattention and exclusion in Tajikstan's Water Management Reform" (Perreault, 2018)
- Mulcahey, Jane "Exploring Scale and Boundaries in Food System Assessments" (Sultana, 2017)
- Van De Grift, Anna "Participation of Conformity" Peruvian Water Governance, Law and the Failed Attempt to Establish a River Basin Council" (Perreault, 2017)

NORTH CAROLINA

EAST CAROLINA UNIVERSITY

Masters (Science):

- Adams, Kailey "Autogenic Controls on Debris-Flow Fans with Limited Accommodation Space: Laboratory Experiments informed by a Field Example" (Wasklewicz, 2017)
- Jones, Sarah "Longshore Spatial and Temporal Variabilities in Cape Cod National Seashore" (Gares, August 2017)
- Letzring, Michael "Mapping Historic Alaska Glaciers Using Declassified Spy Satellite Imagery and Computer Vision Based Photogrammetry" (Wasklewicz, December 2017)

- Phan, Minh "Weather on the Go: An Assessment of Smartphone Mobile Weather Applications Use Among College Students" (Montz, July 2017)

- Russell, Jonathan "An Analysis of Wastewater Treatment Alternatives for the Town of Elm city, North Carolina" (Wubneh, May 2017)
- Williams, Shadane "Risk Perception and the Role of Experience: Case studies of Port Maria and Annotto Bay S. Mary Jamaica" (Curtis, May 2017)

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

PhDs:

- Berman-Arevalo "Making space in the 'territorial cracks': Afro-campesing politics of land and territory in the Colombian Caribbean" (Valdivia, 2018)
- Call, Maia (Gray, 2017)
- Janko, Mark "Social-Ecological impacts of China's Payments for Ecosystem Services Programs on land use, migration and livelihoods"
- Jones, Christopher M. "Long-term Impacts of Sudden Oak Death and Interactions with Fire in Big Sur, CA Using Coupled Dynamic Spatial-Temporal Epidemiological Modeling" (Moody, Song, 2017)
- Scott, Darius (Olson, Gokariksel, 2018)
- Wright, Willie (Cravey, 2017)

Masters (Arts):

- Hawkins, Mike "Liberty Call at Sunset: Belonging, Ageing Masculinities and Transitional Marriage in Subic Bay, Philippines" (Kirsch, 2017)
- Lovette, John "Towards a function-based restoration prioritization system" (Band, 2017)
- Marshall, Lisa "Nuclear 'Renaissance'? Contemporary Geography of the U.S. Nuclear Energy Industry" Ortiz, Marcos (Olson, 2017)
- Sandell, John A. (Pickles, 2017)

UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

PhDs:

- Dony, Coline, "Better Access to Parks to Improve Population Health in Mecklenburg County, N.C." (Eric Delmelle 2016)
- Feng, Wenpeng "Large-Scale Spatiotemporal Modeling of Urban Growth with Cyberinfrastructure: A Surrogate-Based Approach" (Tang, 2017)
- Hjarding, Angel "The Butterfly Highway: Connecting People and Nature" (Sorensen 2017)
- Lysenko, Tetiana "Labor Outcomes of Recent U.S. College Graduates in the STEM Disciplines: From the College Location Perspective" (Wang 2017)
- Schuch, Johanna "Socio-spatial geographies of Hispanic Immigrant Youth Accessing the Urban Labor Market" (Heather Smith 2016)
- Tao, Ran "No Boundary for Spatial Interactions-- Exploratory Spatial Flow Data Analysis" (Jean-Claude Thill 2017)
- Zhou, Yuhong "Space-time Dynamics of Single Family Residential Water Consumption in Charlotte, North Carolina" (Jean-Claude Thill 2016)

Masters (Arts):

- Caldwell, Kevin "You Cycle to Work?! The Gradual Evolution of Bicycle Commuters in Charlotte, North Carolina" (Boyer, 2017)
- Chabot, Stacie "Understanding Cannibalization through Relocations" (Graves, 2017)
- French, Rhonda "Preference and Perception in Mecklenburg County: Building Better Greenways" (Tyrel Moore, 2017)

- Gibson, Savannah "The Ecophronimo Ian McHarg: A Tribute through the Lens of Ecological Practical Wisdom" (Xiang, 2017)
- Gooljar, Robert "Suitability Analysis for Locating Transit-Oriented Development in Charlotte, North Carolina" (Nilsson, 2017)
- Major, Elizabeth "Exploring SNAPscapes: Making Sense of North Carolina's Food Access Landscapes with Geodemographic Segmentation" (Delmelle, 2017)
- Pinkston, Jamee "Youth Participatory Action Research on the West Boulevard Corridor" (Sorensen, 2017)
- Reitzel, Amber "Importance of Cornerstone Plans in Systems of Plans" (Boyer, 2017)
- Schmidt, Jacob "Has the American Heartland Retained it's Comparative Advantage in Producing National Basketball Association Players?" (Campbell, 2016)
- Shi, Jiyang "The Estimation of Global-Level Mangrove Biomass and Carbon: A High-Performance Computing Approach Combined with WEB GIS" (Tang, 2016)

Masters (Science):

- Dyer, Susan "Ground Penetrating Radar Investigation of Subsurface Cavity Potential in the Russell Mine, Uwharrie National Forest, Montgomery County, North Carolina" (Bobyarchick, 2017)
- Gropp, Matthew "Assessing the Impact of the Nocturnal Transition on the Lifetime and Evolution of Supercell Thunderstorms in the Great Plains" (Davenport 2017)
- Magee, Kathleen "An Observational Study on Quantifying the Distance of Supercell-Boundary Interaction in the Great Plains" (Davenport 2017)
- McCreary, Alan "Anatomy of Select Deposits in the Mauch Chunk Group, Southern West Virginia, USA" (Diemer, 2017)
- Moser, Faye "Spatial and Temporal Variance in Rock Dome Exfoliation and Weathering near Twain Harte, California, USA" (Eppes, 2017)
- Sirbaugh, Megan "Spatiotemporal Prediction Modeling of Dengue Fever in Colombia, South America Based on Temperature and Precipitation" (Eastin, 2017)
- Weiserbs, Ben "The Morphology and History of Exfoliation on Rock Domes in the Southeastern United States" (Eppes, 2017)

UNIVERSITY OF NORTH CAROLINA AT GREENSBORO

PhDs:

- Al Taher, Arwa "IA Geographic Assessment of Immigrants' Location Patterns, Segregation, and Housing Conditions in the 21st Century America: Evidence from the Atlanta Metropolitan Statistical Area" (Sultana, 2017)
- Ayivi, Frederick "Impact of Land Use and Land Cover on Stream Water Quality in the Reedy Fork-Buffalo Creek Watershed in North Carolina: A Spatial-Temporal Analysis" (Stine, 2017)
- Patterson, Thomas "Longleaf Pine Mastings, Climate Variability, and Tick-Borne Disease Prevalence in the Southeastern U.S." (Knapp, 2017)

Masters (Arts):

- Bowen, Shaylee "Geographies of Entrepreneurship: Non-Farm Proprietorship Employment by U.S. Metropolitan Area" (Debbage, 2016)
- Molina, Alejandro "Defining the Map: Utilizing Classical Categorization and Prototype Theory" (Patton, 2017)

NORTH DAKOTA

UNIVERSITY OF NORTH DAKOTA

Masters (Arts):

- Andreasen, Brandon "Bicycle transit and the journey to work: an exploration of bicycle accessibility in 10 large U.S. cities" (Niedzielski, 2016)
- Prelip, Danielle "Directed Study, Non-thesis Option" (Wang 2016)

Masters (Science):

- Anderson, Nels "Directed Study, Non-thesis option" (Rundquist, 2017)
- Amor, Jacqueline "An Evaluation of Elk Home Range Variation in North Dakota" (Boulanger, Rundquist, 2017)
- Burow, Daniel "The Impacts of Lake-Effect Snow on Traffic Volume in Ohio and Indiana, 2011-2015" (Atkinson, 2017)
- Engelmann, Katie "Evaluating Wetland Expansion in a Tallgrass Prairie-Wetland Restoration" (Vandeberg, 2017)
- Jackson, Courtney "Assessment of Climate Change and Agricultural Land Use Change on Streamflow Input to Devils Lake: a Case Study of the Mauvais Coulee Sub-basin" (Todhunter, 2017).
- Klug, Earl "Directed Study, Non-thesis option" (Rundquist 2017)
- Torgerson, Eric "Oil Extraction Infrastructure Development and Resulting Land-Cover Change in McKenzie County, North Dakota, 2009 to 2014" (Rundquist, 2017)

OHIO

KENT STATE UNIVERSITY

PhDs:

- Rice, Stian "Food System Reorganization and Vulnerability to Crisis: a Structural Analysis of Famine Genesis" (Tyner, 2018)
- Schuch, Laura "Geospatial Approaches to Identify Neighborhood Risks to a Pediatric Population" (Curtis, 2018)

Masters (Arts):

- Adams, Ryan "Bomb Cyclones of the Western North Atlantic" (Sheridan, 2017)
- Lee, Nathaniel "Environmental Impacts of Back Country Camping in Low Regulatory Wilderness: Geographic Patterns in the Allegheny National Forest and their Implications for Management" (Curtis, 2018)
- Smith, Erik "The Characteristics of Cold Air Outbreaks in the Eastern United States and the Influence of Atmospheric Circulation Patterns" (Sheridan, 2017)

MIAMI UNIVERSITY OF OHIO

Masters (Arts):

- Asante-Wusu, Isaac "Electrification as Development for Sustainable Livelihoods at Mt. Kasigau, Kenya" (Yeboah, 2017)
- Berkowitz, Briana "Home Gardenscapes for the Promotion of Ecological and Cultural Plant Diversity on St. Eustatius, Dutch Caribbean" (Medley, 2017)
- Browne, Michael "Autonomy in Georgia's Ajaria Region: Its Benefit for the State and How it has Evolved Since the Collapse of the Soviet Union" (D'Arcus, 2017)
- Kaloki, McNichol "Mapping Vegetation Status at Lake Nakuru National Park and Surrounds, Kenya" (Maingi, 2017)
- Myers, Chris "Electrification as Development for Sustainable Livelihoods at Mt. Kasigau, Kenya" (Medley, 2017)

THE OHIO STATE UNIVERSITY

PhDs:

- Carr, Jake "Variety, Consumer Spaces, and Dynamics in the Spatial Organization of the Goods and Services Sector" (O'Kelly, 2017)
- D'Amico, Dan "Dissolved Oxygen in the Oceans: An Examination of the Late Ordovician and Near Future Using an Earth System Climate Model" (Montenegro, 2017)
- Kocher, Austin "Notice to Appear: Immigration Courts and the Legal Production of Illegal Immigrants" (Coleman, 2017)
- Koh, Minkyung "Title: Marriage Migration of Women and Making a Multicultural Society in South Korea" (Malecki, 2018)
- Kong, Hui "Understanding and Designing the Development of Chinese Cities: Towards an Approach based upon the New Science for Cities" (Sui, 2018)

Masters (Arts):

- Leasor, Zachary "Underwater: Spatiotemporal Variations of Drought Persistence in the South-Central United States" (Quiring, 2017)
- McHaney, Megan "Intra-Hospital Transfers and the Associated Risk of Hospital-Onset Clostridium Difficile Infection" (Root, 2018)
- Rivas, Laura "Mobility, Labor Management and Citizenship Regimes: The Denationalization of Dominicans of Haitian Descent" (Coleman, 2018)

Masters (Science):

- Chandrasa, Ganesha "Evaluation of Regional Climate Model Simulated Rainfall over Indonesia and its Application for Downscaling Future Climate Projections" (Montenegro, 2017)
- Jones, Megan "Sixty Years of Widespread Warming in the Mid and High Latitudes of the Southern Hemisphere" (Bromwich, 2018)
- Zou, Xun "The Prominent West Antarctic Surface Melt Event of January 2016: Investigation of the Dominant Physical Mechanisms" (Bromwich, 2017)

OHIO UNIVERSITY

Masters (Arts):

- Chapman, Angela "The Neoliberal Economy of Food: Evaluating the Ability of the Local Food System around Athens, Ohio to Address Food Insecurity" (Perkins)
- Stone, Meredith "Decor-racial: Defining and Understanding Street Art as it Relates to Racial Justice in Baltimore, Maryland" (Buckley)

Masters (Science):

- Butler, Kelly "The Effects of Land Cover Type on Tornado Intensity in the Southeastern U.S." (Houser)
- Goergens, Chad "20th Century Antarctic Pressure Variability and Trends Using a Seasonal Spatial Pressure Reconstruction" (Fogt)
- McGinnis, Nathaniel "Topography and Land-Cover Effects on Tornado Intensity using Rapid-Scan Mobile Radar Observations and Geographic Information Systems" (Houser)

UNIVERSITY OF TOLEDO

PhDs:

- Chohaney, Michael L. "Spatial Dynamics: Theory and Methods with Application to the U.S. Economy" (Smirnov, 2018)
- Li, Xi "Use of LiDAR in Object-based Classification to Characterize Brownfields to Green Space Conversion in Toledo" (Czajkowski, 2017)
- Pepe, Linda "Optimally Locating Level 1 Trauma Centers and Aeromedical Depots for Rural Regions of the State of Ohio" (Lindquist, 2017)

Masters (Arts):

- Deeter, Curtis A. "P3s, Urban Growth Machines and the Glass City" (Shetty, 2018)

- Hossen, Md. Shakhawat "Freight Flow, Pattern and Variable Magnitude: Ins and Outs of the Midwest" (Alam, 2017)
- Jayawardhana, Smaraweera A. M. M. "Analysis of Thermal Infrared Remote Sensing for Rooftop Surface Temperature" (Czajkowski, 2018)
- Marok, James B. "Social Contribution Networks: The Case of POSCO Steel Company" (Reid, 2017)
- Rahman, Md. Tajminur "Land Use Based Evapotranspiration Estimation of Toledo City form MOD16 Product of MODIS Satellite Imagery in Comparison with the Flux Measurement" (Czajkowski, 2017)

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

PhDs:

- Craig, Thomas R. "Challenging U.S. Undergraduates' Constructions of India: Opportunities to (Re)Imagine the "Other"" (Sheehan, 2018)
- Haffner, Matthew M. "Assessing the Validity of Location-Based Social Media in the Study of Spatial Processes" (Mathews and Finchum, 2018)
- Heald, Stephanie E. "Spatial Patterns of Mental Health Treatment in Oklahoma" (Comer, 2018)
- Heise, Keeley "Blizzard, Risk, Perception, and Preparedness in the Northern Great Plains" (Stadler, 2017)
- McBrayer, William "Koreatown, Georgia: A Geography of Korean Ethnic Churches Engaged in Community Development in Gwinnett County, Georgia" (Greiner, 2017)
- Zhao, Yun "Exploring the Relationship between Urban Form and Door-to-Door Travel Time: A Focus on High-Speed Rail in the United States" (Yu, 2018)

Masters (Science):

- Ellis, Emily "An Optimal Object-Based Approach to Identify Urban Vegetation and Assess Change: A Study of Oklahoma City, 2006-2013" (Mathews, 2017)
- Koehn, Stephanie "Place-Making in American Renaissance Festivals" (Greiner, 2017)

UNIVERSITY OF OKLAHOMA

PhDs:

- Hardwick, Daryn "Environment and Interspecific Interactions at the Margin of Species Ranges: a Spatial Analysis of Forest Communities" (Hoagland, 2017)
- Kingfield, Darrel "Impacts of Land Use and Land Cover on Remote Sensing Analyses of Thunderstorms and Their Attendant Hazards" (de Beurs, 2017)
- Messick, Jennifer "Buds, Leaves, Shoots, and Flowers: Analysis of Plant Phenology Across an Environmental Gradient" (Hoagland, 2017)
- Morren, Sophia "Citizen-Driven Policy mobility for Urban Agriculture" (Smith, 2017)
- Nikoltschev, Borislav "Frontiers, Borderlands and Scales in Southeastern Asia" (Shelley, 2017)

Masters (Arts):

- Derry, Diana-Beth "Intimate Violences: Mapping, Awareness, and Prevention in Oklahoma" (Smith, 2017)
- Swamy, Ashley "My Choice?: An Analysis of a Controversial Womens Empowerment Video from India" (Smith, 2017)

Masters (Science):

- Castleberry, Becca "Community-Level Impacts of Wind Power in Oklahoma" (Greene, 2017)
- Fitzpatrick, Kimberly "Return-on-Investment Frameworks Can Increase the Efficiency of Restoration Efforts to Improve Freshwater Connectivity" (Neeson, 2017)
- Hinchliffe, Madeline "Water Use Trends and Patterns in the Rio Grande River Basin: Case Studies in Texas, New Mexico and Colorado" (Ziolkowska, 2017)
- Sleight, Nathan "Stream Fragmentation and Infrastructure Condition in the Great Plains" (Neeson, 2017)
- Thompson, Emily "Methods for Mapping Land Cover Change in Shrinking Cities in the United States" (de Beurs, 2017)
- Warren-Bryant, Kelsey "Evaluating the Long-Term Effectiveness of Coyote Management in Oklahoma: Human Perceptions and Techniques" (Loraamm, 2017)

OREGON

OREGON STATE UNIVERSITY**PhDs:**

Trevino Pena, Melva

Masters (Science):

- Chellew, Megan "Spatial Relationships for Vegetation in Restored and Reference Salt Marshes in the Salmon River Estuary, Oregon" (Santelmann, 2017)
- Chen, Likun "A High-Performance Web Graphics Library-Based Automatic Identification System Data Visualization Platform" (Zhao, 2017)
- Harris, Tyler "Understanding Patterns of Timber Harvest and their Drivers: A Quantitative Assessment of Forest Governance in the Western Cascades of Oregon" (Kennedy, 2018)
- Perlman, Kathryn "Using a Two-Species Individual-Based Model to Examine the Population Responses of Northern Spotted Owls to Experimental Removals of Barred Owls in the Pacific Northwest" (Santelmann, 2017)

PORTLAND STATE UNIVERSITY**PhDs:**

Malone, Melanie "Using Critical Physical Geography to Map the Unintended Consequences of Conservation Management Programs" (Lafrenz, 2017)

Master (Arts):

Kinsey, Dirk "Out in 'The Numbers': Youth and Gang Violence Initiatives and Uneven Development in Portland's Periphery" (Brower, 2017)

Masters (Science):

- Bonnette, Ryan "The Effects of Scale Variation on Single-Family Residential Water Use in Portland, OR" (Chang, 2017)
- Donohue, Kevin "The Cully Conundrum: Attempting Improvements without Displacement" (Brower, 2018)
- Costello, Alexandria "Ecogeomorphology of an Urban Beaver Pond: Fanno Creek, Beaverton, Oregon" (Lafrenz, 2017)
- Cooley, Alexis "Detecting change in rainstorm properties from 1977-2016 and associated future flood risks in Portland, Oregon" (Chang, 2017)
- Goodman, Kyle "Environmental Justice and GIS: A Comparison of Three GIS Methods for Estimating Vulnerable Population Exposed to Brownfield Pollution in Portland, Oregon" (Duh, 2017)

- Gibson, Taylor "A Comparative Analysis of Bike-share Programs in Portland and Seattle" (Brower, 2017)
- Herzfeld, Zachary "Effects of Spatially Distributed Stream Power on Check Dam Function in Small Upland Watersheds: A Case Study of the Upper Laja River Watershed, Guanajuato, Mexico" (Chang, 2017)
- Manser, Gwyneth "Food Access Narratives in Southeast Portland, Oregon" (Brower, 2017)
- Nagel, Alexander "Analyzing Dam Feasibility in the Willamette River Watershed" (Chang, 2017)
- Pemberton, Ryan "Shifting Wetland Policy and Perception in the Columbia Slough" (Brower, 2017)
- Santora, Alexandra "Stream Sedimentation Patterns in an Urban Beaver System: Fanno Creek, Oregon" (Lafrenz, 2017)

PENNSYLVANIA

THE PENNSYLVANIA STATE UNIVERSITY**PhDs:**

- Clay, Nathan Jared "Adaptive livelihoods? Climate Change, Agrobiodiversity, and Food Security Amid Development Transitions in Rwanda" (Zimmerer, 2017)
- Hesse, Arielle Leah "Responsibility for Exposure: Health Governance of Respirable Crystalline Silica in the Hydraulic Fracturing Industry" (King, 2018)
- Karimzadeh, Morteza "Geo-Annotation and Geoparsing of Textual Documents" (MacEachren, 2018)
- Kim, Eun Kyeong "Local Indicators of Temporal Burstiness for Spatio-Temporal Event Analysis" (MacEachren, 2018)
- Kramer, Adrienne Katherine "Defining Derecho Intensity and Impacts Through Physical Properties, FEMA Assistance, and an Emergency Management Impact Scale and GIS Response Tool" (Carleton, 2018)
- Lumley-Sapanski, Audrey Jane "Evaluating the Success of the U.S. Refugee Admissions Program: Refugee Resettlement Experiences in Chicago" (Fowler, 2018)
- Mason, Jennifer Smith "Visual Perspectives and Decision-Making in Geospatial Uncertainty" (Klippel, 2018)
- Ranjbar, Azita Marie "The Greening of Human Rights in Iran" (Dowler, 2017)
- Stehle, Sam Kenneth "Mapping Semantic and Spatial Mediascapes in The Catalan Independence Movement: Geopolitics, Sports, and Black Boxes" (Peuquet, 2017)
- Titanski-Hooper, Jennifer Lynn "'The Belly of Zagreb': Identity, Development, and Europeanization in Croatia's Open-Air Markets" (Wright, 2017)
- Yurco, Kayla Marie "When the Cows Come Home: Gender Dynamics and Intra-Household Livestock Management in Southern Kenya" (King, 2017)

Masters (Science):

- Baumann, Megan Dwyer "Farmer Landscape Knowledge in North-Central Nicaragua" (Zimmerer, 2017)
- Limpisathian, Pongpichaya "Evaluating Visual Contrast and Hierarchy Relations of Cartographic Features Across Multi-Scale Map Displays" (Brewer, 2017)
- Pawlikowski, Natalie Carmen "Post-Fire Forest Succession, Group-Gap Dynamics, and Implications for Fire Resilience in an Old-Growth Pinus ponderosa Forest" (Taylor, 2018)
- Tubbeh Sierralta, Ramzi Michel "From Territorial Claims to Mediated Access: Unraveling the Ethnoterritorial Fix In the Peruvian Amazon" (Zimmerer, 2017)

TEMPLE UNIVERSITY

PhDs:

Hall, Nicole "The Evolution of Institutional Community Engagement Strategies at Urban Universities from Urban Serving to Institutional-Focused in a Globalizing World: A Study in Atlantic City, New Jersey" (Rosan, 2018)

Masters (Arts):

Gunther, Emily
Squire, Heather

Masters (Science):

Bradley, Jessica
Engel, Meir
Kurz, Kirsten
Lewis, Adam
Maldonado, Cesarina
Quackenbush, Matthew
Wade, Nicolas
Wei, Xi
Wolanski, Julia

Graduate Certificate in GIS:

Clark, Owen
Peralta, Josephina
Podietz, Emma
Squire, Heather
Stewart, Jarrett

VILLANOVA UNIVERSITY

Masters (Science):

Korman, Laura "From Ridge to Reef: Impact of Land Based Sources of Pollution on Coral Reefs in Guánica Bay, Puerto Rico"
Carter, Amber "Determination of Sediment Province and Contamination Sources in the Guánica Watershed of Puerto Rico"
Rodriguez, Elise "Land Cover Impacts on Mineral Sediment Delivery and Accretion Rates in Tidal Wetlands"
Zawatski, Mary "Carbon Exchange and Sediment Deposition in a Heterogeneous New England Salt Marsh"

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA

PhDs:

Hung, Chen-Ling "Catchment Hydrology in the Anthropocene: Impacts of Land-Use and Climate Changes on Stormwater Runoff" (James, 2018)
Jin, Hai "Developing Methods and System for Practical Redistricting Problems" (Guo, 2017)
Lu, Junyu "Measuring Agricultural Drought and Uncertainty in Future Drought Projections" (Carbone, 2018)
Zhu, Xi "Multi-Scale Flow Mapping and Spatiotemporal Analysis of Origin-Destination Mobility Plan" (Guo, 2018)

Masters (Arts):

Arnold, Alice "Everyday Occupations: Traffic, Hazards, and Mobility in the West Bank" (Barnes, 2018)
Young, Brittani "Woven Together: African American Women and the Global Human Hair Trade" (Harrison, 2018)

Masters (Science):

Davis, Eleanor "What's Salt got to do with it? Responses, Barriers and Opportunities for Agricultural Adaptation to Soil Salinization in Hyde County, NC" (Dow, 2018)
King, Christopher - non-thesis program (Mitchell, 2017)
Kramer, Ayseful Yeniaras "Providing Agreement Rates for Local spatial Autocorrelation Methods by Testing Different Datasets" (Hodgson, 2017)
Pham, Erika "Analysis of Evacuation Behaviors and Departure Timing for October 2016's Hurricane Matthew" (Cutter, 2018)
Stewart, Michael "Internal Gravity Wave Detection During the 21 August 2017 Total Solar Eclipse" (Hiscox, 2018)

SOUTH DAKOTA

SOUTH DAKOTA STATE UNIVERSITY

Masters (Science):

Alhomaidhi, Ahmed "Geographic Distribution of Public Hospitals in Riyadh, Saudi Arabia" (Spinney, 2017)
Bland, Andrew "Investigating the Possibilities of Heterolocalism in Central American, African, and Asian Immigrants in Sioux Falls, South Dakota" (Watre, 2017)
Brynjulson, Austin "Urban Gardens and Nutrition in Sioux Falls, South Dakota" (Spinney, 2018)
Donahoe, Joseph "Identifying Traffic Accident Hot Spots and Site Causes in Brookings, South Dakota" (Watre, 2017)
Green, John "Modeling the In-State Geographic Market Changes of South Dakota Public University Enrollments, 2006 to 2015" (Watre, 2018)
Hasanen, Mika "Russian Real Estate Purchases in Finland, 1990-2016" (Watre, 2017)
Irwin, Jeffery "Quantification of Understory Fuels in the Superior National Forest Using Lidar Data" (Napton, 2018)
Kececi, Murat "Monitoring Pollen Counts and Pollen Allergy Index Using Satellite Observations in East Coast of the United States" (Zhang, 2017)
Siemonsma, Dawn "A Comparison of Land Use and Land Cover in Public Lands of the Northwestern Great Plains and High Plains Ecoregions and the Implications for Grasslands Birds" (Napton, 2017)
Will-Noel, Byron "Integration of Small Unmanned Aircraft Systems into the Formal Curriculum at South Dakota State University" (Napton)

TEXAS

TEXAS A&M UNIVERSITY

PhDs:

Loder, Thomas (2018)
Margaret Trimble, Sarah "Addressing the International Rip Current Health Hazard" (Houser, 2017)

Masters (Science):

Adams, Seth (2018)
Bartow Gillies, Ellen (2018)
Green, Carl A. (2018)
Li, Yiran (2018)
Thapa, Shubhechcha (2017)

TEXAS STATE UNIVERSITY

PhDs:

- Adams, William "The Protracted Dispute over the Edwards Aquifer: Revisiting and Reframing Multiparty Stakeholder Conflicts in Management, Regulation, Allocation and Property Rights" (Blanchard, 2016)
- Biegas, Tamara "Adolescent Overweight and Obesity: A Geographic Inquiry" (Lu, 2017)
- Dascher, Erin "Dams, Dam Renewals, and Freshwater Mussel Conservation" (Meitzen, 2017)
- Dede-Bamfo, Nathaniel "Optimizing Spatial Accessibility for Agricultural Markets in the African Plains, Ghana" (Chow, 2017)
- Klaus, Gregory "Perceived Risk and Response to the Wind Turbine Ice Throw Hazard: Comparing Community Stakeholders and Operations and Maintenance Personnel in Two Regions of Texas" (Blanchard, 2017)
- Lavy, Brendan "Public Discourse and Water Resource Control in the Lower Colorado River Valley, Texas 1930-2015" (Hagelman, 2017)
- Lee, Jinhee "A Learning Progression on Map Understanding: A Case Study of Elementary through College Students in Korea" (Jo, 2017)
- Wamsley, John "Spatial and Temporal Changes in Reptile and Amphibian Populations in a Suburban Green Belt in Williamson County, Texas" (Butler, 2017)
- Zunkel, Paul "The Sensation-Seeking and Motivational Dimensions of Storm Chasers" (Dixon, 2017)

Masters (Science):

- Brasher, Saber "Trends and Characteristics of North Atlantic Tropical Cyclones" (Dixon, 2017)
- Clark, Adam "Examining the Implications of Contraflow Evacuations in Corpus Christi, Texas" (Dixon, 2016)
- Cotsakis, Camille "Growing Social Capital: A Comparative Study in Cleveland Ohio" (Weaver, 2017)
- Jenkins, Ashley "An Integrated Rural Tourism Approach to Normandy's Cider Trail" (Myles, 2016)
- Lopez, Christina "An Assessment of Ecological International Communities' Environmentally Responsible Design: Examples from Texas" (Myles, 2016)
- Moss, Grant "Connecting Protected places in Texas using Riparian Connectivity Networks" (Julian, 2017)
- Newcomer, Kristine "Historical Riparian Habitat Changes of an Endangered Bird Species: Interior Least Terns along the Red River below Denison Dam" (Julian, 2017)
- Phillips, John "Riparian and Geomorphic Disturbance to a High-Magnitude Flood on the Blanco River in the Texas Hill Country" (Meitzen, 2017)
- Sterling, Killian "Quantifying Alligator Gar (*Atractosteus spatula*) Spawning Habitat Suitability on the Lower Trinity River, Texas" (Jensen, 2017)
- Teng, Yahan "Diffusion of Terrorist Attack Message on Twitter: Patterns and Factors" (Lu, 2017)
- Washburn, Matthew "Digital Terrain Model Generation Using Structure from Motion: Influence of Canopy Closure and Interpolation Method on Accuracy" (Jensen, 2017)

Masters (Applied Geography):

- Collins, Wesley "Change detection of *Juniperus ashei* at the Freeman Center in the Edwards Plateau, Texas" (Jensen, 2017)
- Dixon, Shadae "Dialysis Patients of Risk and Preparedness Toward Hurricane Hazard: Comparing Response between New York and Texas" (Blanchard, 2017)
- Gimnich, David "Evacuation Compliance and Actual Wildfire Risk in Austin, Texas: Determining the Effects of Risk Education through Online Community Surveys" (Myles, 2016)

- Hedgepeth, Sarita "An Examination of Price Variation in Relation to Median Household Income: Comparing a Regional and International Grocery Store Chains' Pricing of Household Staples, in San Antonio, Texas" (Blanchard, 2016)
- Hervey, James "Baseline Climatology of Sounding-Measured Variates Associated with Atlantic and Gulf Coast Tropical Cyclone Tornado" (Dixon, 2017)
- Khani, Zahra "How Can Elderly Residents of Texas be Informed about Medicare?: A Geographic Approach to Media Consumption by Older Population of Texas" (Weaver, 2016)
- Kraft, Michael "Demographic Usage Patterns of Purgatory Creek Park, San Marcos, Texas, Hill Country" (Julian, 2017)
- Martinez, Alejandro "Site Selection of Offshore Wind Farms in the Coastal Area of Massachusetts using Fuzzy Modeling" (Chow, 2017)
- Schilly, Kevin "Assessing the Impact of Vegetation on Structure from Motion Accuracy" (Jensen, 2017)
- Sheffield, Christopher "Glacial Stagnation features in the Subalpine Zone of Lee Ridge, Glacier National Park, Montana" (Myles, 2016)
- Smith, Lacey "Estimating the Conservation Potential of the Commercial Institutional and Industrial Water Uses Sectors in Texas Water Supply Planning Regions C and K" (Loftus, 2017)
- Wiesner, Jon "A Comprehensive Geodatabase of the Freeman Center" (Jensen, 2017)
- Yarbrough, Elizabeth "Kombucha Culture: An Ethnographic Approach to Understanding the Practice of Home-Brew Kombucha in San Marcos, Texas" (Myles, 2017)

TEXAS TECH UNIVERSITY

Masters (Science):

- Johnson, Sarah "Vegetation Textures of Dunes in Arid and Semi-Arid Regions" (Lee, 2016)
- Morris, Ashley "An Investigation of Social Vulnerability and Storm Resource Availability for Tornado Hazards in Lubbock, Texas" (Cao, 2016)

UNIVERSITY OF NORTH TEXAS

Masters (Science):

- Elliott, Patrick "Evaluation Sea-Level Rise Hazards on Coastal Archaeological Sites, Trinity Bay, TX" (Williams, 2018)
- Hoyt, Andrew "Seeds of Disempowerment? Bt Cotton & Accumulation by Dispossession in India A Study of Maharashtra, Telangana, & Andhra Pradesh" (Ahmed, 2018)
- Nikfal, Mohammadreza "Developing a Soil Moisture-Based Irrigation Scheduling Tool (SMIST) Using Web-GIS Technology" (Pan, 2018)
- Omotere, Olumide "Improvement of Soil Moisture Daily Diagnostic Equation for Estimation Root-Zone Soil Moisture" (Pan, 2018)
- Oppenheim, Vicki "The Underlying Conditions for Success of Public Markets in the Southwest Region of the US 1996-2016" (Rice, 2017)
- Rindy, Jenna "Urban Trees as Sinks for Soot: Deposition of Atmospheric Elemental Carbon to Oak Canopies and Litterfall Flux to Soil" (Ponette, 2018)
- Sadeghinaeenifard, Fariba "Automated Tree Crown Discrimination using Three-Dimensional Shape Signatures Derived from LiDAR Point Clouds" (Dong, 2018)

UNIVERSITY OF TEXAS AT AUSTIN

PhDs:

- Falola, Bisola "Imagining Adulthood from the CC Terraces" (Adams, 2016)
Park, Edward "Tributary Impacts, Hydrological Connectivity, and Distribution of Sediment Sinks Along the Middle-Lower Amazon River" (Latrubesse, 2017)

Masters (Arts):

- Delgado-Thompson, William "Incorporating Renewable Energy in a Desalination Plant - Case Study in El Paso, Texas" (Beach, 2017)
Doyle, Colin "Leveraging Geospatial Technologies for Flood Management and Disaster Assessment in the Lower Mekong River Basin" (Beach, 2017)
Flynn, Paul "Mapping the Denial of Space: Latinos and United States Immigration Law" (Torres, 2017)
Guo, Xiwei "Morphodynamics of Large Anabranching Rivers: The Case of the Madeira River, Brazil" (Latrubesse, 2017)

UNIVERSITY OF TEXAS AT SAN ANTONIO

Masters (Arts):

- Carron, Celina "Invasive Species in the Amistad Reservoir" Defee, Karen "Public Green Spaces Versus Societal Norms, Who Benefits from Free Open Space?"
Gatharight, William "Storm Water Management and Geographic Analysis of the Addicks Reservoir in Houston TX"
Keller, Cassandra "Environmental GIS"

UTAH

UNIVERSITY OF UTAH

PhDs:

- Campbell, Michael "Remote Sensing and Geospatial Modeling of Wildland Firefighter Safety" (Dennison, 2018)
Fuhrman, Christopher "Reimagined Territory: A New Theory of Terrorist Geographies" (Medina, 2017)

Masters (Science):

- Bailey, Vanessa "Modeling Vegetation Distribution and Carbon Sequestration in the Pacific Northwest" (Brewer, 2018)
Davis, Andrea Nicole "Childhood Undernutrition within the Dry Zone of Myanmar: Does Geographic Location Influence Health Outcomes?" (Wan, 2017)
Farnham, Delanie Rose "Child Growth as a Measure of Resilience to Food Insecurity in Burkina Faso" (Kathryn Grace, 2017)
Johnson, Eric Scott "Relative Contributions of Precipitation-Induced Melt Feedbacks to Regional Glacier Mass Balance in High Mountain Asia" (Rupper, 2017)
Latham, Paris Walker "Evaluating the Effects of Snowstorm Frequency and Depth on Skier Behavior in Big Cottonwood Canyon, Utah" (Cova, 2017)
Liu, Yingxie "A Web-Based Application for Home Loss Notification in Wildfires" (Cova, 2017)
Meadows, Michelle "High Frequency Variability in Glacier Meltwater Patterns in the Rhone Watershed, Switzerland" (Rupper, 2017)
Pulver, Aaron Thomas "Locating Automated External Defibrillator Enabled Medical Drones to Reduce Response Times to Out-of-Hospital Cardiac Arrests" (Wei, 2017)
Reynolds, Joshua Deshawn "Comparing Urban Vegetation Cover with Summer Land Surface Temperature in the Salt Lake Valley" (Dennison, 2017)

- Wellard, Blake "A New Ancestral Diploid Species of *Echinocereus* Endemic to Southwestern Utah and Northern Arizona" (Power, 2017)

- Wenrich, Erika Ann "Quantifying Drought-Induced Changes in Green Vegetation Fraction and Classification Accuracy using Hyperspectral Data for the Central Sierra Nevada, California" (Philip Dennison, 2017)

- Xiao, Weiye "Walkability, Amenity, and Physical Activity: A Study of Salt Lake County" (Wei, 2017)

Masters (GIS):

- Arnold, Steve (2016)
Cheng, Swen (2017)
Eichorn, Michael (2017)
Ellis, Sumer Bivens (2017)
Mason, Michael (2018)
McComb, Alexander (2018)
Ottesen, Mitch (2017)
Rivera, Sarah Emily (2017)
Theobald, Megan (2017)
Wang, Yiwei (2017)
Welker, Chelsea (2017)
Wilson, Marc (2018)

VERMONT

UNIVERSITY OF VERMONT

Honors Theses:

- McCall, Andrew "Lagrangian Coherent Structures: A Climatological Work"
Remerleitch, Tilden "Grounded: Stories of Refugee Resettlement in Vermont"
Rogers, Lucy "Wildlife Values of Conservation Professionals: A Case Study of Bear Researchers and Mangers"
Ryan, Sophie "Quantifying Stream Phosphorous Dynamics and Total Suspended Sediment Export in Forested Watersheds in Vermont"

VIRGINIA

VIRGINIA TECH UNIVERSITY

Masters (Science):

- Green, Tim "Impacts of synoptic weather on the ice phenology of Maine lakes, 1955-2005" (Ellis, 2018)
Bhattarai, Shreejana "Understanding the Relationship between Land Use/Land Cover and Malaria in Nepal" (Kolivras, 2018)
Kirkland, Jessica "Changes in the Spatial Patterns of Precipitation Bands in Hurricanes during Landfall along the Gulf of Mexico and Atlantic Coasts of the United States, 1998-2014" (Zick, 2018)
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WASHINGTON

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Masters (Arts):

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Theses & Dissertations:

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UNIVERSITY OF WISCONSIN-MILWAUKEE

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UNIVERSITY OF ALBERTA

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Masters (Arts):

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Masters (Science):

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- Ponder, Caroline Sage "The Life and Debt of Great American Cities: urban Reproduction in the Time of Financialization" (Wyly, 2017)
- Prouse, Valerie Carolyn "Pacifying Alemão: Articulations of Public Security, Market Formalization, and Autoconstruction in Rio de Janeiro" (Peck, 2017)
- Rosenman, Emily Thea "The Spaces of Social Finance: Poverty Regulation through the "Invisible Heart" of Markets" (Wyly, 2017)
- Van der Kamp, Derek W. "Spatial Patterns of Humidity, Fuel Moisture, and Fire Danger Across a Forested Landscape" (McKendry, 2017)

Yang, Qinran "Interpreting Gentrification in China: the Rising Consumer Society and Inequality in the State-Facilitated Redevelopment of the Central City of Chengdu" (Ley, 2017)

Masters (Arts):

- Brydolf-Horwitz, Rachel "Virtual Injustice: Technology, Gendered Violence and the Limits of the Law" (Wyly, Pratt, 2017)
- Derksen-Bergen, Tesia "Divergent Intersections: Multicultural Education and Peer Interactions in Schools" (Hiebert, 2017)
- Grigoryeva, Idaliya "Going through the 'Roof': Spatial Price Diffusion and the Ripple Effect in the Vancouver Housing Market" (Ley, 2017)
- Grove, Alan Jon "Icebergs Dead Ahead: Anticipating Increased Maritime Shipping in the Canadian Arctic" (Kuus, Evenden, 2017)
- Majumder, Debolina "Footnotes to a Conflict? Rethinking Questions of Class and the State in Post-Accession Jammu and Kashmir" (Glassman, 2017)
- Omstedt, Mikael Omstedt "Reading Risk: Credit Rating and the Politics of Municipal Debt" (Peck, 2017)
- Yang, Connie "Si(gh)ting Israel/Palestine: the Slow Violence of International Tourism" (Gregory, 2017)

Masters (Science):

- Beagley, Rosemary Patricia Jane "Effect of Alternate Stopbank Alignments on the Waiho River, Westland, New Zealand: a Microscale Modelling Investigation" (Eaton, 2017)
- Cannon, Sara E. "Investigating Human Impacts to Coral Reefs in the Republic of the Marshall Islands" (Donner, 2017)
- Desrosiers, Sarah C.E. "The Productivity of Culturally Important Berry Species in the Kugluktuk Region of Nunavut, and their use in Land-Based Education Programs Connecting Elders and Youth" (Henry, 2017)

- Everard, Kelsey "On Nighttime Turbulent Exchange within and Above a Sloped Vineyard" (Christen, 2017)
- Gauthier-Fauteux, Simon "Linking Fluvial Dynamics to White Sturgeon Habitat in the Nechako River, BC" (Eaton, 2017)
- Semmens, Caitlin Iris "Characterizing Turbulent Exchange over a Heterogeneous Urban Landscape" (Christen, 2017)

SIMON FRASER UNIVERSITY

PhDs:

- Walker, Blake "Towards a Suburban Spatial Epidemiology: Differentiating Geographical Patterns of Cancer Incidence, Patient Access, and Surgical Treatment in Canada's Urban Fringe" (Schuurman, 2016)
- Ehlert, Dana "Modelling the Climate Response to Anthropogenic Carbon Dioxide Emissions: Time-Dependent Processes, Commitment, and Reversibility" (Zickfeld, 2017)
- Heung, Brandon "Regional-Scale Digital Soil Mapping in British Columbia using Legacy Soil Survey Data and Machine-Learning Techniques" (Schmidt, 2017)
- Labove, Josh "Lines that Matter: Reading the Charter at the Canada-US Border" (Blomley, 2017)

Masters (Arts):

- Hendricks, Kristianne "How People Green the Port: Sustainability in Canadian Ports" (Hall, 2017)
- Leitch, Scott "Did Certification Add Value in BC's Central Coast?" (Clapp, 2017)
- Mcintosh, Alison "Reducing Harm through Food and Work: Incorporating Food Security and Peer Employment in Ham Reduction Programming" (McCann, 2016)
- Morgan, Jeff "Caribbean Offshore Medical Schools and the International Mobility of Medical Education" (Crooks, 2017)

Masters (Science):

- Benoy, Nicholas "Towards a Spatial Imperative in Public Urban Development Geovisual Analysis and Communication" (Hedley, 2017)
- Hunt, Brendan "Experiments on the Morphological Controls of Velocity Inversions in Bedrock Canyons" (Venditti, 2017)
- Jamrozik, Maciej "Effects of Bigleaf Maple on the Growth and Morphology of Mature Conifers in the Southern Coastal Forests of British Columbia" (Schmidt, 2016)
- Li, Xinru "Exploring the Reversibility of Marine Climate Change Impacts Under CO2 Removal from the Atmosphere" (Zickfeld, 2017)
- Lochhead, Ian "Generating 3D Data, Simulations, and Geovisual Interfaces for 21st Century Risk Assessment and Communication in Multilevel Space" (Hedley, 2017)

ONTARIO

BROCK UNIVERSITY**Masters (Arts):**

- Akokuwah, Emmanuel "Farmers Access to Agricultural Information and its Impact on Smallholder Agriculture: A Case Study of the Asante Akim North Municipality, Ghana" (major research paper) (Fullerton, 2018)
- Dingle, Connor "Mobile Technology and Reconstituting Place at the Matheson Learning Commons" (major research paper) (Nash, 2017)
- Epp, Rick "Coming Out by Staying In: Men Who Have Sex with Men in the Niagara Region and How They Represent Themselves Online" (Ripmeester, 2016)
- Huelleman, Denyelle "Consuming Niagara's Agricultural Landscapes: A Regional Assessment of the Constraints and Opportunities for Developing a Sustainable Agritourism Destination" (thesis) (Fuller, 2016)
- Kwao, Benjamin "Sustainable Food Systems in Northern Ghana: Assessing the Influence of International Development" (thesis) (Butz, 2017)
- McCartan, Andrew "Glasgow's Queer Battleground" (thesis) (Nash, 2017)
- Nikolowski, Marina "Examining Governance, Risks and Human Rights of Water in Canada" (major research paper) (Ustundag, 2018)
- Raileanu, Alexandru "Wisdom and International Migration: A Study of Romanian Immigrants in Ontario" (major research paper) (Simandan, 2017)
- Tayler, Paul "Student Commuting Patterns and their Effects on Readiness to Learn and Academic Achievement" (Fullerton, 2016)

CARLETON UNIVERSITY**PhDs:**

- O'Neill, Hugh Brendan "The ground thermal regime of the Peel Plateau, Northwest Territories, Canada" (Burn, 2016)
- Struckman, Luke "Primordial Identities, Bounded Territories, and Contemporary Violence?: American Geopolitical Perspectives on the Middle East's Cultural Landscapes" (Dalby, 2016)

Masters (Arts):

- Copp, Alexander "From Urban Forests to Neighbourhood Treescapes: An Examination of Power, Actors and Processes in Champlain Park, Ottawa" (Wigle, 2016)

- Mearns, Rebecca "Nunavut, Iqasivut, Piqqusivullu Najuqsittiarlavu (Caring for our land, Language and Culture): The Use of Land Camps in Inuit Knowledge Renewal and Research" (Ljubicic, 2017)

- Sladen, Wendy "Icings near the Tibbitt to Contwoyto Winter Road, Great Slave Uplands, Northwest Territories" (Burn, 2017)

Masters (Science):

- Foster, Robert Alex "Multidimensional Assessments of Long-Term Anthropogenic Impacts on Domed Peatlands: Learning from Two Centuries at Alfred Bog, Ontario, Canada" (Brklacich, Richardson, 2017)
- George, Scott "Volunteered Geographic Information: A Review of the OpenStreetMap.org Project and Factors Relating to its Reliability" (Mitchell, 2017)
- Lindsay, Emily "Mapping Canada's Rangeland and Forage Resources using Earth Observation" (King, Davidson, 2017)
- Michel, Cassandra "Groundwater-Surface Water Interactions in the Jock River Watershed, Ottawa, Ontario" (Richardson, 2017)
- Rajewicz, Jill "Channelized Epishelf Lake Drainage Beneath Milne Ice Shelf, Ellesmere Island, Nunavut" (Mueller, 2017)
- Skaarup, Electra "The Impacts of Shrub Abundance on Microclimate and Decomposition in the Canadian Low Arctic" (Humphries, 2017)
- Subedi, Rupesh "Depth Profiles of Geochemistry and Organic Carbon from Permafrost and Active Layer Soils in Tundra Landscapes Near Lac de Gras, Northwest Territories, Canada" (Gruber, 2017)

MCMMASTER UNIVERSITY**PhDs:**

- Burke, Charles "Addressing Driver Concerns: The Network Robustness Index Approach to Planning City Cycling Infrastructure" (Scott, 2016)
- Kovacs, Shawn "Development and Calibration of "Calcite Rafts" as a Proxy for Holocene Aquifer Conditions in Anchialine Settings, Quintana Roo, Yucatán Peninsula, Mexico" (Reinhardt, 2017)
- Martin, Kelly "Examining Microbial Carbon Source Cycling in Arsenic Contaminated Bangladesh Aquifers through Lipid and Isotopic Analyses" (Slater, 2017)

Masters (Arts):

- DiBartolo, Larissa "Landlords in the Private Rental Market in Hamilton, Ontario" (Harris, 2017)
- Hendershott, Kaitlin "How Newspapers have Represented the Suburbs of Toronto and Hamilton Since 1990" (Harris, 2017)

Masters (Science):

- Feist, Samantha "Investigation of Sediment Pathways in Hidden River Cave, Kentucky" (MacLachlan, 2017)
- Goad, Corey "Methane Biogeochemical Cycling Over Seasonal and Annual Scales in All Oil Sands Tailing End Pit Lake" (Slater, 2017)
- Genovese, Cristina "Detailed Thin-bedded Facies Analysis of Mancos C in the Upper Mancos Shale, New Mexico" (Bhattacharya, 2017)
- Housman, Kristyn "Post-Fire Chronosequence Analysis of Peatland Bog Vegetation Communities Across Hydrogeological Settings" (Waddington, 2017)
- Jung-Ritchie, Logan "Measuring the Ratio of Storm-Deposited Gutter Casts, Upper Cretaceous Gallup Sandstone, New Mexico, USA" (Bhattacharya, 2017)
- Lu, Wei "Understanding Bike Share Cyclist Route Choice Behavior" (Scott, 2017)
- Randazzo, Nicolas "Carbon and Oxygen Isotope Effects in Synthesized Carbonates at 25 °C" (Kim, 2016)

- Risacher, Florent "Early Stage Water Cap Oxygen Consumption Trends Within The First Commercial Scale Oil Sands Pit Lake, Base Mine Lake" (Warren, 2017)
- Smal, Caitlin "Natural and Anthropogenic Sources Controlling Regional Groundwater Geochemistry on the Niagara Peninsula" (Slater, 2016)
- Smolarz, Alanna "Thermal and Hydrological Conditions of Reptile Species-At-Risk Habitat Along Eastern Georgian Bay During Critical Life Stages" (Waddington, 2017)
- Sturrock, Shelby "Soil-Transmitted Helminth Infections in Honduras: Mapping Infection Prevalences and Implications for Health Care Regionalization" (Yiannakoulis, 2017)
- Whelan, Kelly "Geological and Geochemical Analysis of Quaternary Aquifers and Aquitards, Clarington Ontario" (Smith, 2017)

UNIVERSITY OF OTTAWA

Masters (Arts):

- Beaulieu, Antoine "Thesis Farmer's Response to Drivers of Forest Transitions: The Case of Mae Chaem District, Thailand" (Cao, 2017)
- Girard, Nicholas "Thesis Regional Scale Food Security Governance in Inuit Settlement Areas: Opportunities and Challenges in Northern Canada" (Wesche, 2017)
- Joyce, Jenna "Thesis Using a Geospatial Approach to Evaluate the Impact of Shipping Activity on Marine Mammals and Fish in the Kitikmeot Region of Nunavut, Canada" (Dawson, 2018)
- Li, Gaoxiang "Thesis Spatial-Temporal Patterns of the Distribution of the Ethnic Minorities in China's Urbanization" (Cao, 2017)
- Morin, Louis-Philippe "Thesis Les Identités Territoriales à Gatineau, 15 ans après la Fusion" (Gilbert)

Masters (Science):

- Armstrong, Lindsay "Thesis Thaw Slump Activity via Close-Range 'Structure from Motion' in Time-Lapse using Ground-Based Autonomous Cameras" (Lacelle, 2017)
- Dalton, Abigail "Thesis Tracking Changes in Iceberg Production and Characteristics at the Termini of Tidewater Glaciers around the Prince of Wales Icefield, Ellesmere Island" (Copland, 2017)
- Hodul, Matus "Thesis Photogrammetric Bathymetry for the Canadian Arctic" (Knudby, 2018)
- McCartin, Chantal "Thesis Multi-temporal Climate Variability in Nova-Scotia during the Past Century" (Viau, 2017)
- Verret, Marjolaine "Thesis Distribution, Morphology and Carbon Cycling of Earth Hummocks in the Chuck Creek Trail Valley, Northern British Columbia, Canada" (Lacelle, 2017)

QUEEN'S UNIVERSITY

PhDs:

- Giancarlo, Alexandra "Creoles of Louisiana's Southwest: Race, Place and Belonging" (Kobayashi, 2017)
- Henderson, Victoria "Retro-Neoliberalism: Elite Counter-Protest in Latin America, 1940-1975" (Lovell, 2016)
- Rudy, Ashley "Landscape Patterns of Permafrost Disturbance and Degradation in the Canadian High Arctic" (Lamoureux, Treitz, 2016)

Masters (Arts):

- Day, Jennifer "Autonomy for Whom? Towards Understanding Socio-Spatial Implications of Emerging Autonomous Vehicle" (Murakami-Wood, Mullings, 2016)
- Stefanelli, Robert "An Examination of Current Approaches to Integrative Indigenous and Western Knowledge System Implementation in Water Research and Management: A Case Study Encompassing the Colonized Geographies of Canada, Australia, New Zealand, and the United States" (Castleden, 2016)

Masters (Science):

- Arruda, Sean "Impacts of Enhanced Temperature and Snow Deposition on Senescence Date, Vegetation Cover, and CO₂ Exchange in a Canadian High Arctic Mesic Ecosystem" (Scott, 2016)
- Malo, Lauren "Anticipating Climate-Induced Changes to Forest Cover in Ontario and the Implications for Future Bioenergy Development" (Mabee, 2016)
- Roberts, Kaitlyn "Arctic Char Otolith Records of Recent Limnological Change in High Arctic Lakes" (Lamoureux, Kyser, 2017)
- Taylor, Ashton "Applying Life Cycle Assessment and Modelling to Analyze the Environmental Sustainability of Public Transit Modes for the City of Toronto" (Mabee, 2016)

Masters (Planning):

- Cranston, Sarah "School Closures & Community Hubs: Examining Livability in Ontario through School Closures and the Community Hubs Framework" (Collins, 2017)
- Giallonardo, Michael "The Impact of Employment Status on the Travel Behaviour of Millennials: Assessing the Potential for Promoting Sustainable Transportation in the Greater Toronto and Hamilton Area" (Agarwal, 2017)
- Pakeman, Kyle "Checking Kingston's Equity Pulse: An Application and Critical Evaluation of the UrbanHEART@Toronto Methodology to Investigate the Intra-city Social and Health Inequities of Kingston, ON" (Collins, 2017)
- Gundrum, David "Measuring Solar Energy Potentials in Residential Environments: A Comparative Study of Three Neighbourhoods in Kingston, Ontario" (Meligrana, 2016)

UNIVERSITY OF GUELPH

PhDs:

- Dietrich, Dawn "MAN'aging Nature: A Historical Feminist Political Ecology of Eastern Ontario's Forests, 1849-2013" (Roth, 2018)

Masters (Arts):

- Artis, Evan "Examining Stakeholder Perspectives of Large Marine Protected Areas: A Q-Method study" (Gray, 2017)
- Bramberger, Lucas "Understanding Labour and Production in Alternative Agriculture: Requirements, Variability, and Perceptions of Labour on Certified Organic Farms in Ontario" (Fraser, 2017)
- Gravely, Evan "Investigating the Role of Supermarkets in Alternative Protein Consumption" (Fraser, 2018)
- McGee, Samantha "Examining the Reintroduction of Indigenous Cultivation and Management Practices in State-Led Parks and Protected Area in BC" (Silver, 2017)
- Reid, Heather "The Representation and Realities of Agritourism in Essex County, Ontario" (Smithers, 2017)
- Waugh, Devin "Inuvialuit Traditional Ecological Knowledge (TEK) of Beluga Whale (*Delphinapterus leucas*) in a Changing Climate in Tuktoyaktuk, NT" (Bradshaw, 2017)

Masters (Science):

- Carpino, Olivia "Examining Changes to Forest and Permafrost Distribution in the Southern Northwest Territories and Northeastern British Columbia" (Berg, 2017)
- MacDougall, Joshua "Evaluating linear polarizations from C-Band SAR to Changes in Vegetation and In-Situ Soil Moisture over Corn Fields in SW Ontario" (Berg, 2017)
- Newman, Daniel "Investigating Hyperscale Terrain Analysis Metrics and Methods" (Lindsay, 2018)

UNIVERSITY OF TORONTO

PhDs:

- Biggar, Jeffrey "Between Public Goals and Private Projects: Negotiating Community Benefits for Density from Toronto's Urban Redevelopment" (Siemiatycki, 2017)
- Cervenán, Amy Martina "Placing the Festival: A Case Study of the Toronto International Film Festival" (Leslie, 2017)
- Danyluk, Martin Andrew "Conflict at the Crossroads: Making Global Supply Chains in the Age of Logistics" (Cowen, 2018)
- Kepkiewicz, Lauren Wood "Unsettling Food Sovereignty in Canada: Settler Roles and Responsibilities, Tensions and (Im)possibilities" (Wakefield, 2018)
- Latulippe, Nicole "Belonging to Lake Nipissing: Knowledge, Governance, and Human-Fish Relations" (MacGregor, 2017)
- Lord, Elizabeth "Building an Ecological Civilization across Rural/Urban Divide and the Politics of Environmental Knowledge Production in Contemporary China" (Boland, 2018)
- Lu, Bing "Estimating Grassland Biophysical and Biochemical Properties Using Remote Sensing and Modelling" (He, 2017)
- Luo, Xiangzhong "Estimation of Global Land Surface Evapotranspiration with the Consideration of Vegetation Structural and Physiological Status from Remote Sensing" (Chen, 2018)
- Nugent, James Patrick "Resistance Along the Rails: Confronting Deindustrialization and Urban Renewal as a Neoliberal Socio-Ecology Fix through Social Movement Alliance-Forming in Toronto, Canada" (Prudham, 2018)
- Proctor, Cameron "Quantification of Belowground C Flow from Root Exudation of Peatland Sedges and Shrubs" (He, 2017)
- Soma, Tammara "Planning from 'Table to Dump': Analyzing the Practice of Household Food Consumption and Food Waste in Indonesia" (Maclaren, 2018)
- Walker, Samuel "Crisis-Opportunity, Liability-Asset: Governing Vacant Land Reuse in Cleveland, Ohio" (Wakefield, 2018)
- Wilczak, Jessica Maureen "Reconstructing Rural Chengdu: Urbanization as Development in the Post-Quake Context" (Boland, 2017)
- Wang, Rong "Improving the Estimation of Seasonal Leaf Area Index of Coniferous Forests for Better Carbon and Water Flux Estimation" (Chen, 2017)
- Xu, JieLan "Good Place to Age in Place: Exploring the Relationships between the Built Environment, Activity Participation and Healthy Aging" (Sorensen, Hess, 2018)
- Yang, Jian "Multi-source Remote Sensing Data for Automated Extraction of Fine-scale Attributes in a Northern Hardwood Forest" (He, Caspersen, 2017)
- Zheng, Ting "Retrieving Canopy-Level Light Use Efficiency (LUE) and Maximum Carboxylation Velocity (V_{cmax}) Using the Photochemical Reflectance Ratio" (Chen, 2017)
- Zwick, Austin "Resource Boom to Revitalization: The Local Economic Planning and Governance Implications of Fracking in Northern Appalachia" (Hackworth, 2018)

Masters (Arts):

- Braszak, Patrick "Social Movement Theory and Transboundary Conservation in Eastern North America: A Case Study of the Algonquin to Adirondacks Collaborative" (Olive, 2017)
- Chiu, Kwun Sau "Mobility in the City: Dalian's Streetcar System from 1890's to 1940's" (Han, 2017)
- Clement, Bronwyn "Geographies of Enforced Heteronormativity in Urban Public Parks: a Case Study of Project Marie" (Bunce, 2018)
- Conroy, Sarah "An NDN* in TRANS*ition: The Academic-ish Journal of a Trans/Non-Binary Non-Status Mixed-Nation Urban-Nish" (Cowen, 2017)
- Crompton, Amanda "Towards Inclusive Community Engagement: Engaging Marginalized Residents in the Urban Planning Process" (Wakefield, 2017)

- Gill, Jina "The Rouge Uncovered: Community Participation, Urban Agriculture and Power Dynamics in the Creation of Canada's first National Urban Park" (Wakefield, 2017)
- Grisdale, Sean Edward "'Disruption' or Displacement? Platform Capitalism, Short-Term Rentals and Urban Transformation in Toronto" (Sorensen, 2018)
- Hunter, Matthew "Achieving Collaborative Advantage in Innovative Public-Private Partnerships: A Case Analysis of the Red Door Family Shelter Project" (Siemiatycki, 2017)
- Jacobs, Rebecca "Understanding Neighbourhood Food Access: Practices and Perspectives of Residents of Scarborough Village, Toronto" (Kepe, 2017)
- Linton, Jillian Christina "Local Food Global People: Immigrant Counterstories in the Greater Toronto Area" (Wakefield, 2017)
- Lue, Adrian "Experiences of Community Gardening Participants in Different Garden Settings" (Conway, 2017)
- Mahmoud, Hamdi "From Smuggling to Social Reproduction: Migration and Livelihood Strategies of Young Somali Men in Toronto, Canada" (Buckley, 2018)
- Morgan, Andrew "The Everyday Evaluations of Public Participation by Urban Planners" (Klenk, 2017)
- Murie, Stacey "Expanding Food Justice: Gender, Race and Hunger in Toronto" (Wakefield, 2017)
- Vasilyeva, Yekaterina "A Geographic Investigation of a Critical Care Patient Transfer Network" (Widener, 2017)
- Wang, Zylar "Socialist Industrialization and Railway Sector Development in the Early PRC" (Boland, 2017)
- Wilson, Heather "Understandings of Liveability: An Exploration of University Student Perceptions of Neighbourhood Spaces" (Leyden, 2017)

Masters (Science):

- Aden, Ayana "The Impact of the Mount Polley Tailings Pond Failure on the Sedimentary Record of Quesnel Lake, British Columbia" (Desloges, 2018)
- Ariano, Sarah "Thesis An Investigation of Temperate Region Lake Ice in Central Ontario" (Brown, 2017)
- Clackett, Sydney "Long-Term Changes in Global and Local Atmospheric Mercury as Recorded in White Spruce Tree-Rings in Central Yukon Territory" (Porter, 2017)
- Cui, Siliang "Temporal and Spatial Variations of PM_{2.5}, surface O₃, and Smog in Ontario, Canada" (Liu, 2017)
- Dickinson, Adam Kabir "Intraspecific Trait Variation in Cacao Agroecosystems: Influence of Local Conditions and Cultivars, and the Role in Local Knowledge Systems" (Isaac, 2017)
- Khan, Talha "Vulnerability of Common Urban Forest Species to Projected Climate Change: A Case Study of Mississauga, Ontario" (Conway, 2017)
- Ng, Kevin "Mercury Methylation in Riparian Areas Across Minnesota" (Mitchell, 2017)
- Wang, Shihao "A Quantitative Study of Ozone Deposition Velocity over a Mixed Temperate-Boreal Forest" (Liu, 2017)
- Yip, Vivian "Species Diversity and Preferred Attributes of Trees: A Case Study of the Private Urban Forest in the Greater Toronto Area" (Conway, 2018)

UNIVERSITY OF WATERLOO

PhDs:

- Alshboul, Khaled "Assessing Local Community Involvement in Tourism Development Around a Proposed World Heritage Site in Jerash, Jordan" (Nepal, 2017)
- Berdej, Samantha "Bridging Organizations to Improve Conservation Fit in the Coral Triangle" (Armitage, 2017)
- Dou, Yue "The Impacts of Cash Transfer Programs on Rural Livelihoods: A Study of Caboclos in the Brazilian Amazon Estuary Region" (Deadman, 2016)
- Dyck, Thomas "First Nations and Adaptive Water Governance in Southern Ontario, Canada" (Armitage, Plummer, 2016)

- Karst, Heidi "Protected Areas and Ecotourism: Charting a Path Toward Social-Ecological Wellbeing" (Nepal, 2017)
- McCarter, Colin "The Hydrochemical Fate and Transport of Treated Domestic Wastewater Contaminants during a Wastewater Polishing Experiment in a Sub-Arctic Ladder fen Peatland" (Price, 2017)
- Moniruzzaman, Mohammad "Debt Financed Migration to Consumption Smoothing: Tracing the Link Between Migration and Food Security in Bangladesh" (Walton-Roberts, 2016)
- Simhayov, Rueven "Chemical Characterization of Construction Materials and Solute Transport in Peat from the Nikanotee Constructed Fen Watershed in the Athabasca oil Sands Region, Alberta, Canada" (Price, 2017)
- Stahlbrand, Lori "'Going the Distance so Our Food Doesn't Have to:' Case Studies of Creative Public Procurement at Canadian and UK Universities" (Blay-Palmer, 2016)
- Talukder, Byomkesh. Multi-Criteria Decision Analysis (MCDA) for Agricultural Sustainability Assessment" (Blay-Palmer, 2016)
- Thompson, Alvin "Towards New Perspectives in Integrated Coastal Management: Prospects for Responding to Changes Affecting Coastal Area Tourism Systems" (Wandel, Armitage, 2017)
- Vitale, Michele "Acculturation and Post-Immigration Changes in Obesity, Physical Activity and Nutrition: Comparing Hispanics and Asians in the Waterloo Region, Ontario, Canada" (Doherty, 2016)
- Masters (Arts):**
- Brazeau, Catharine "Accountability, Conservation and Community: Measuring the Local Economic Impacts of Protected Areas" (Slocombe, 2016)
- Liu, Mingyu "A Qualitative Assessment of Climate Change Related Open Data in Canada" (Johnson, 2017)
- Lo, Brenda "Tracing Gentrification in the Kitchener-Waterloo City Core: a Spatial Approach to Compact City, Rapid Transit Station Areas and Gentrification" (Johnson, 2016)
- Masters (Science):**
- Balliston, Nicole "Saturated and Vadose Zone Fate and Transport of a Continuously Released Tracer in a Sub-Arctic Bog Peatland" (Price, 2017)
- Braverman, Michael "Impact of Linear Disturbances on a Discontinuous Permafrost Peatland Environment" (W. Quinton, 2016)
- Brown, Catherine "The CO₂ Dynamics and Hydrology of an Experimental Sphagnum Farming Site" (Price, 2017)
- Chen, Chen "Gamification in a Volunteered Geographic Information Context with Regard to Contributors' Motivations: A Case Study of OpenStreetMap" (Johnson, 2017)
- Chen, Xinqu "Estimation of Carbon Storage in Urban Trees Using Multispectral Airborne Laser Scanning Data" (Li, 2016)
- Date, Vinay "Response of Peatland Microbial Community Function to Contamination by Naphthenic Acids and Sodium in the Athabasca Oil Sands Region, Alberta, Canada" (Price, 2017)
- Davey, Keith "Empirical Analysis and Modelling of Information and Communications Technology in Agriculture for Southern Ontario, Canada" (Robinson, 2017)
- Evans, Ian "Quantifying Variation in Wetland Composition and Configuration for Application in Landscape-Scale Reclamation Planning" (D. Robinson, 2017)
- Gao, Yiou "A Geographic Exploratory Analysis of Health and Crime in Toronto Neighbourhoods" (Tan, 2016)
- Gingras-Hill, Tristan "Hydrogeochemical Soil Dynamics to Topography for Forested Land Units Undergoing Reclamation in a Post-Mined Landscape in the Athabasca oil Sands Region, Alberta" (Petrone, 2017)
- Hamm, Seung Beom "A Foundation for Spatial Thinking: Towards a Threshold Concept Framework in GIScience and its Implications for STEM Education" (Tan, 2016)
- Huang, Jingwen "The Application of Remote Sensing and GIS for Improving Modeling the Response of Wetland Vegetation Communities to Water Level Fluctuations at Long Point, Ontario" (Tan, 2017)
- Jones, Courtney "Analysis of the Geosocial Landscape in the City of Toronto" (Robertson, 2016)
- Kessel, Eric "The Hydrogeochemistry of a Constructed fen Peatland in a Post-Mined Landscape in the Athabasca Oil Sands Region, Alberta, Canada" (Price, 2017)
- Liao, Renfang "Using Penalized Linear Discriminant Analysis and Normalized Difference Indices Derived from Landsat 8 Images to Classify Fruit-Tree Crops in the Aconcagua Valley, Chile" (Brenning, 2016)
- Lozier, Tatianna "Release of Phosphorus from Crop Residue and Cover Crops to Runoff Over the Non-Growing Season in Southwestern Ontario" (Macrae, 2017)
- Lu, Qing "Smartphone Applications in Government: Characterizing and Evaluating Municipal Smartphone Applications for Service Requests" (Johnson, 2017)
- Murray, Kimberley "Methane Dynamics of a Constructed Fen in the Athabasca Oil Sands Region, Alberta" (Strack, 2017)
- Tan, Weikai "Sea Ice Mapping in Labrador Coast with Sentinel-1 Synthetic Aperture Radar Imagery" (Li, 2017)
- Tiidus, Thomas "Feasibility of Detecting Crop Water Stress in Apple Orchards with UAV" (R. McLeman, 2016)
- Wang, Junyi "Using Network Analysis to Explore the Effects of Road Network on Traffic Congestion and Retail Store Sales" (Robinson, 2017)
- Wang, Shiqian "Urban Roadside Tree Inventory Using a Mobile Laser Scanning System" (Li, 2017)
- Zhang, Li "Investigation of Multi-Criteria Decision Analysis Approaches for Agricultural Decision-Making in Southern Ontario" (Robinson, 2016)
- MES:**
- Badri, Amel "The Influence of Weather and Climate Change on Pedestrian Safety" (Andrey, 2016)
- Brown, Bethanee "Freshwater Turtle Population Characteristics and Habitat use Within Ontario's Dunnville Marsh Area" (Stone, 2016)
- Chen, Yifei "Investigating the Influences of Tree Coverage and Road Network Density on Property Crime: A Case Study in the City of Vancouver, British Columbia, Canada"
- Cymbaly, Lauren "Controls on Plant and Soil Respiration in a Temperate Swamp Wetland" (Strack, 2016)
- Harrison, Sara "Crisis Crowdsourcing in Government: Characterising Efforts by North American Agencies to Inform Emergency Management Operations" (Johnson, 2017)
- Hissa, Kylie. Using photovoice to Understand Climate Change Adaptation in Rural Ontario (Murphy, 2016)
- Hobbs, Robyn "Understanding the Influencers of Second-Hand Apparel Shopping Behavior" (2016)
- Pembleton, Corey "An Object-Based Image Analysis of Land Cover and Urban Structure using Very High Resolution Aerial Imagery and LiDAR Data" (Robinson, 2017)
- Russo, Samantha "Enhancing Planning and Preparedness Capacities for Climate Change Resilience in Wawa, Ontario: A Community-Based Photovoice Approach" (B. Murphy, MRP, 2016)
- Tao, Chen "Effects of Feedback Login Portal Type on Households' Electricity Behavior and Consumption: A Case Study in Milton, Ontario" (Parker, 2017)

WILFRID LAURIER UNIVERSITY

PhDs:

- Dyck, Thomas "First Nations and Adaptive Water Governance in Southern Ontario, Canada" (Armitage, Plummer, 2017)
- Moniruzzaman, Mohammad "Debt Financed Migration to Consumption Smoothing: Tracing the Link between Migration and Food Security in Bangladesh" (Walton-Roberts, 2016)
- Stahlbrand, Lori "'Going the Distance so Our Food Doesn't Have to': Case Studies of Creative Public Procurement at Canadian and UK Universities" (Blay-Palmer, 2017)
- Talukder, Byomkesh "Multi-Criteria Decision Analysis (MCDA) for Agricultural Sustainability Assessment" (Blay-Palmer, 2016)
- Vitale, Michele "Acculturation and Post-Immigration Changes in Obesity, Physical Activity and Nutrition: Comparing Hispanics and Asians in the Waterloo Region, Ontario, Canada" (Doherty, 2016)

Masters (Arts):

- Brazeau, Catharine "Accountability, Conservatism and Community: Measuring the Local Economic Impacts of Protected Areas" (Slocombe, 2017)

Masters (Science):

- Braverman, Michael "Impact of Linear Disturbances on a Discontinuous Permafrost Peatland Environment" (Quinton, 2017)
- Jones, Courtney "Analysis of the Geosocial Landscape in the City of Toronto" (Robertson, 2016)
- Tidus, Thomas "feasibility of Detecting Crop Water Stress in Apple Orchards with UAV" (McLeman, 2016)

Masters (Environmental Studies):

- Hissa, Kylie "Using Photovoice to Understand Climate Change Adaptation in Rural Ontario" (Murphy, 2016)
- Hobbs, Robyn "Understanding the Influences of Second-Hand Apparel Shopping Behavior" (Murphy, 2016)
- Russo, Samantha "Enhancing Planning and Preparedness Capacities for Climate Change Resilience in Wawa, Ontario: A Community-Based Photovoice Approach" (Murphy, 2016)

YORK UNIVERSITY

PhDs:

- Bocking, Paul "Understanding the Neoliberalization of Education through Spaces of Labour Autonomy" (Tufts, 2018)
- Fiedler, Robert "Rethinking Toronto's Middle Landscape: Spaces of Planning, Contestation, and Negotiation" (Basu, 2017)
- Massé, Francis "Securing Conservation: The Politics of Anti-Poaching and Conservation Law Enforcement in Mozambique" (Lunstrum, 2018)
- Youdelis, Megan "The Post-Politicization of Participation in Neoliberal Conservation: Cases from Canada and Thailand" (Vandergeest, Roth, 2018)

Masters (Arts):

- Fraschetti, Michael "White Nepotism: Interrogating 'Corporate Culture' in the Toronto Census Metropolitan Area Labour Market" (Mensah, 2017)
- McWhirter, Renee "Conservation, Consumption, and Livelihoods: Contradictions in conservation projects and audiences in Vietnam" (Vandergeest, 2018)
- Merhar, Amelia "Moving Home: The Art and Embodiment of Transience among Youth Emerging from Canada's Child Welfare System" (Bain, 2018)
- O'Neil, Colin "Protecting the Peel: Environmental conservation in the age of First Nations self-government, An examination of conservation in Yukon's Peel Watershed" (Lunstrum, 2017)
- Stevens, Matt "Social Networks and Humanitarian Aid among Urban Syrian Refugees in Jordan" (Hyndman, 2017)

- Waddington, Lee "Is Coal Still Our Life? Working-Class Men, Masculinities, and Memories of Deindustrialization in a South Yorkshire Coal Mining Borough, 1984-1994" (Jenkins, 2017)
- Wagner, Kyle "Conservation in Focus: Capturing the Payments for Ecosystem Service (PES) Scheme through Ecotourism and Camera-Traps in Laos" (Vandergeest, 2017)
- Watson, Victoria "Perceptions of Water among the Inuit Community in Iqaluit, Nunavut: An Anti-Colonialist, Feminist Political Ecology" (Wood, 2018)

Masters (Science):

- Scheffél, Harold "The Hydrology of a Sandur-Wetland in a Volcanic Environment, Southeast Iceland" (Young, 2018)

QUEBEC

CONCORDIA UNIVERSITY

Masters (Science):

- Alt, Nil "Discourses and Practices of Campus Food Sustainability at Concordia University" (Rantisi, 2017)
- Donald, Lorraine "Temporary Workers in Montréal's Warehousing Sector" (Rantisi, 2017)
- Goyette, Kiley "Urban governance after Urban Renewal: The Legacies of Renewals and the Logics of Neighbourhood Action in Post-Renewal Little Burgundy (1979-1995)" (Rutland, 2017)
- Graham, Tanya L. "A Global-Scale Evaluation of Mammalian Exposure and Vulnerability to Anthropogenic Climate Change" (Matthews, 2018)
- Guertin, Etienne "Modelling Wildfire in an Intermediate Complexity Earth System Climate Model- Exploring the Importance of Timestep and Weather Variability" (Matthews, 2018)
- Hadziosmanovic, Maida "Business Accountability for Climate Change: Carbon Emissions Contributions and Future Sectoral Pathways for Global Carbon Budgets" (Matthews, 2017)
- Maharaj, Tarrandath "Continuing Conversations on the Socio-Pedagogical Role of Food Literacy & Food Kinship: An On-Going Project" (Nash, 2017)
- Massey, William "Assessing the Impact of Riprap Bank Stabilization on Fish Habitat: A Study of Lowland and Appalachian Streams in Southern Québec" (Biron, 2017)
- McGurk, Thomas "Indigenous Online Mapping in Canada- Decolonizing or Recolonizing Forms of Spatial Expressions?" (Caquard, 2018)
- Nettling, Pierson Christopher "It Took a Tenants' Movement: Tenants and the Making of Habitations Jeanne-Mance (1959-1994)" (Rutland, 2017)
- Rezaie, Mohsen "Knowledge Interference from Smartphone GPS Data" (Patterson, 2018)
- Shaw, Emory "Parsing Perceptions of Place: Locative and Textual Representations of Place Emilie-Gamelin on Twitter" (Caquard, 2018)
- Sugen, Sujitha "The Radicals are Coming! On the Institutionalization, Tensions, and Racialization of Anti-Radicalization Practices in Montreal and Quebec" (Rutland, 2018)
- Wang, Mo "Following the Spread of Zika with Social Media: the Potential of Using Twitter to Track Epidemic Disease" (Caquard, 2017)

MCGILL UNIVERSITY

PhDs:

- Brault, Marc-Olivier "The Importance of Terrestrial Rock Weathering as a Negative Feedback Mechanism on the Global Carbon Cycle and Climate: a Modeling Perspective (Moore, 2017)

- Bush, Drew "Student Climate Change Education: The Role of Scientific Technologies In Improving Public Geoscience Understandings" (Sieber, 2017)
- Graesser, Jordan "The Changing Scale of Agriculture in Latin America" (Ramankutty, 2017)
- Harris, Lorna "The Structure and Function of Peatlands in the Hudson Bay Lowland-Response to Environmental Change" (Moore, Roulet, 2017)
- Hugue, Fabien "Remote Sensing of Fluvial Environments: Riverscape Characterization of In-Stream Hydraulic Habitat Heterogeneity" (Lapointe, 2017)
- Wang, Zheng "The Change of Ecosystem Carbon Fluxes with Permafrost Thaw: Dominant Factors and Biogeochemical Mechanisms in a Subarctic Peatland" (Roulet, 2017)
- Xing, Jin "Spatial-Temporal Analysis for Land Use/ Cover Change in an Era of Big Data" (Kalacska, Sieber, 2017)

Masters (Arts):

- Austin, Stephanie "Multi-Level Governance of Public Health Adaptation to Climate Change in Federal Systems" (Ford, 2017)
- Crook, David "Livestock Herd Size Adjustment in Response to Social-Ecological Changes on China's Grasslands" (Robinson, 2017)
- Lynch, Melody "Bajo Ethnic Minority Livelihoods, Mobility, and Resistance in the Wakatobi National Park, Southeast Sulawesi, Indonesia" (Turner, 2017)
- Putzel, Dylan "The Spice of Life: Black Cardamom Cultivation, Trade Networks, and Livelihoods in Yunnan, China" (Turner, 2017)

Masters (Science):

- Fajardo, Paola "Community-Based Mangrove Management in West Mexico: Assessing the Sustainability of Small-Scale Selective Wood Harvesting after the Impact of a Large-Scale Hurricane" (Chmura, 2017)
- MacDonald, Scott "Carbon Exchange at a Restored Boreal Peatland" (Strachan, 2017)
- Maynard, Rachel "Examining Ecosystem Service Change in the Miyun Watershed, China through Stakeholder-Driven Visions of the Future" (Robinson, 2017)
- Shakya, Ranish "Prediction of Household Pharmaceutical Concentration in Rivers of South Asia using Contaminant Fate Model" (Lehner, 2017)
- Templeton, Michael "Quantifying Ice Wedge Volumes in the Canadian High Arctic" (Pollard, 2017)
- Trincsi, Kate "Land System Resilience: Linking Land Use Change, State Policy and Ethnic Minority Resource Management in Northern Upland Vietnam" (Turner, 2017)
- Wollenberg, Jan "Quantifying the Short-Term Climate Mitigation Effects of Salt Marsh Restoration" (Chmura, 2017)

UNIVERSITÉ DE MONTRÉAL

PhDs:

- Augustin, Fougère "L'altération des Minéraux dans les sols forestiers du Bouclier Canadien: Quels facteurs environnementaux affectent la variabilité spatiale et temporelle de la mise en solution des cations basiques?" (Courchesne, 2018)
- Helbig, Manuel "Thawing Permafrost and Land-Atmosphere Interactions of Boreal Forest-Wetland Landscapes in Northwestern Canada" (Oliver Sonnentag 2017)
- Jugie, Jeanne-Hélène "Les relations ville-port selon une approche d'écologie territoriale: le cas de Montréal" (Comtois 2018)
- Pottekk, Elias "Communal Conflict and the Geopolitics of Land Tenure, Social Identity and Statehood in North Kivu (Democratic Republic of the Congo)" (Herrmann 2018)
- Ramos, Yngaroca Yuddy "Développement et évaluation d'approches géostatistiques à l'échelle urbaine pour l'estimation de l'exposition aux particules fines et à l'ozone troposphérique" (St-Onge 2017)

Masters (Science):

- Aknine, Julianne "S'ancrer dans la Terre et la Communauté: le rôle des jardins urbains dans un quartier tremplin (St-Michel à Montréal)" (Jolivet, 2017)
- Arnoux, Hébert Guillaume "Arrimage du réseau Aimsun/Géobase" (Perez, 2017)
- Arsenault, Julien "Cycle des nutriments dans les mares d'une tourbière ombrotrophe du sud du Québec" (Talbot, 2018)
- Bahmanpour, Arash "Cartographie thématique pour la mise en place d'un SIG pour la gestion du territoire en Guinée" (Cavayas, 2018)
- Candido Julyane Cristina "Le géomarketing et la localisation: pour la faisabilité commerciale d'un produit forestier canadien à l'échelle des régions métropolitaines canado-américaines" (Girard, 2017)
- De Francet de Serigny, Cécile "Les oiseaux migrateurs peuvent-ils se contaminer au plomb lors de leur migration hors du Nunavik? Une revue de littérature pour répondre à des inquiétudes soulevées au Nunavik" (Herrmann, 2018)
- Deschamps-Band Mariève "Cuba, d'une médecine internationale au tourisme médical: la fragmentation spatiale induite par les nouvelles mobilités en santé" (Jolivet, 2018)
- Fontaine Bastien "Cartographie des îlots des chaleurs par thermographie aéroportée" (Cavayas, 2017)
- Ghahri, Saremi Reza "Extraction d'objets à partir des images multi-spectrales et des données LiDAR en utilisant le logiciel eCognition" (Cavayas, 2018)
- Guilbert Philippe "Agriculture durable et environnement au Sénégal" (Marois, 2017)
- Miquel Jean-Charles "Épandage de biosolides papetiers et de boues de chaux dans une plantation de peuplier hybride: Effets sur la nutrition foliaire et la croissance" (Bélanger, 2017)
- Savard Simon "Analyse des transits des services de ligne du port de Montréal en 2016" (Comtois, 2017)

UNIVERSITÉ DE SHERBROOKE

PhDs:

- Chalhaf, Bilel "Distribution spatio-temporelle de la Leishmaniose en Tunisie et Dans le Bassin Méditerranéen: Apport de la Géomatique" (Bénié, Salah, 2017)
- Harirforoush, Homayoun "Une Approche Intégrée SIG et Analyse Spatiotemporelle des Accidents Routiers: L'étude de Cas de Sherbrooke / An Integrated GIS-Based and Spatiotemporal Analysis of Traffic Accidents: A Case Study in Sherbrooke" (Bellalite, Bénié, 2017)
- Marchand, Nicolas "Suivi de la Couche Active de Surface du Pergélisol Dans les Régions Nordiques par Télédétection Satellite" (Royer, Krinner, 2017)
- Nzang Essono, Francine "Approche Géomatique de la Variabilité Spatio-Temporelle de la Contamination Microbienne des Eaux Récréatives" (Fournier, 2017)

Masters (Science):

- Badreddine, Saida Farah "Analyse et Évaluation des Données de Grille Neige au Québec Issues des Micro-Ondes Passives Pour la Région de La Grande de 2006 à 2010" (Goïta, 2017)
- Beauregard, Vincent "Apport de la polarimétrie radar en bande C pour l'estimation de l'humidité du sol en zone agricole" (Goïta, Magagi, 2017)
- Ben Khaker, Mohamed Mohsen "Étude des Interférences Sur les Micro-Ondes Passives en bande L à L'aide de Radiomètres au Sol" (Goïta, Magagi, 2017)
- Boileau, Donald "Modélisation spatio-temporelle pour la détection d'événements de sécurité publique à partir d'un flux Twitter" (Bénié, Fortin, 2017)
- Bourge, Florentin "Le développement d'une méthode pour quantifier la distribution spatiale de la végétation en milieu forestier à l'aide du lidar terrestre" (Fournier, 2018)

- Bricault, Serge "Analyse multicritère du potentiel de dynamisme de croissance de la végétation au Québec pour améliorer la périodicité des entretiens forestiers cycliques des lignes hydroélectriques du réseau de distribution" (Germain, 2017)
- Busseau, Bruno-Charles "Analyse des effets de la végétation sur le couvert de neige dans la zone de transition arctique-subarctique par mesures in-situ et télédétection optique (Nunavik)" (Royer, Langlois, 2017)
- Cadoret, Alain "Le transport à la demande en milieu rural: études de cas d'initiatives québécoises" (Bellalite, 2018)
- Caillié, Brice "Développement d'un Outil de Diagnostic et de Suivi de l'état des Sentiers Pédestres du Parc d'Environnement Naturel de Sutton, Québec" (Théau, 2017)
- Castillo-Guimond, Levin "Caractérisation de l'incidence du couvert nival sur la dimension des lahars en cas d'éruption : étude de cas sur le Mont Rainier, Washington, États-Unis d'Amérique" (Langlois, 2017)
- Charland, Alexandre "Développement d'un système d'aide à la décision pour la conservation des milieux humides: cas de métapopulation et d'intégrité écologique du paysage" (Voirin, Béné, 2017)
- Coderre, Frédéric "Comparaison de scénarios de redéploiement du réseau de transport en commun de l'agglomération de Longueuil" (Lynda Bellalite, 2017)
- Crevier, Geneviève "Étude de L'impact D'une Loi Sur le Comportement des Utilisateurs d'aides à la Mobilité" (Bruneau, Béné, 2017)
- Dzeutouo, Zapa, Donard "Développement d'un Modèle Prédictif de la Productivité Spatio-Temporelle des Plantes de Bleuets Sauvages" (Fournier, Germain, 2017)
- Gervais-Gosselin, Xavier "Simulation de l'équivalent en eau de la neige et du ruissellement dans la Baie de Quinte (ON) à l'aide du modèle SNOWPACK : contexte hydrologique" (Langlois, Gouttevin, 2017)
- Gobeil, Alexandre "Système d'information géographique intérieur 3D pour les services d'urgence" (Germain, 2017)
- Hesaraki, Sareh "Comparisons of an aerosol transport model with a 4-year analysis of summer aerosol optical depth retrievals over the Canadian Arctic = Comparaisons d'un modèle de transport d'aérosols avec une analyse de 4 ans de mesures estivales d'épaisseur optique d'aérosols dans l'Arctique Canadien" (O'Neill, 2017)
- Largy-Nadeau, David "Le choix du lieu de résidence des jeunes familles : analyse multicritère appliquée au cas de la Ville de Sherbrooke" (Bellalite, 2017)
- Pères, César Augusto "Choix et analyse d'un système d'information géographique interactif pour l'aide à la gestion urbaine et la participation citoyenne" (Germain, 2018)
- Pomerleau, Patrick "Conception d'un dispositif de caractérisation de la glace à partir d'un radar à émission continu" (Royer, 2017)
- Portelance Jouvett, Laura "Analyse des disparités socio-économiques dans l'accessibilité aux commerces alimentaires : cas de la ville de Sherbrooke" (Béné, 2017)
- Roy, Pascale "Correction des données satellitaires de fluorescence de la chlorophylle-a induite par le soleil pour les effets de bidirectionnalité" (Huot, O'Neill, 2017)
- Salvant, Farah "Identification des zones d'intervention prioritaires pour les mouvements fauniques le long de l'autoroute 10 (Québec, Canada)" (Théau, 2017)

LATIN AMERICA

ARGENTINA

UNIVERSIDAD NACIONAL DEL SUR

Doctorado en Geografía:

- Cabanilla Vásquez, Enrique Armando "Configuración socio-espacial del turismo comunitario. Estudio de caso: República de Ecuador" (Ercolani, Patricia; Seguí Llinás, Miguel, 2017)
- Ferrelli, Federico "Estudio de la influencia marina en la intensidad de la isla de calor en ciudades costeras bonaerenses" (Piccolo, María Cintia, 2016)
- González, Rodrigo Cristián "Migraciones de amenidad y desarrollo competitivo sustentable de los destinos turísticos de montaña: Villa la Angostura y San Martín de los Andes, provincia de Neuquén" (Ercolani, Patricia; Codirectora: Otero, Adriana, 2016)
- Guerrero, Ana Lía del Valle "La nueva geopolítica de la energía en la región sudamericana. Tendencias, actores y conflictos en la industria del gas" (Méndez Gutiérrez del Valle, Ricardo; Directora adjunta: Pizarro, Nora Ester, 2016)
- Leveau, Carlos Marcelo "Muertes por accidentes de tránsito en Argentina: un análisis espacio-temporal para el período 2001-2010" (Pickenhayn, Jorge; Codirectora: Pizarro, Nora Ester, 2016)
- Lucero, Patricia Iris "El mapa social de Mar del Plata. Procesos de producción del espacio urbano y construcción de desigualdades territoriales" (Buzai, Gustavo; Formiga, Nidia, 2016)
- Padilla, Noelia Aymara "Repercusiones e impactos del territoriales del turismo en pequeñas localidades balnearias. El caso de Mar del Sud, Buenos Aires, Argentina" (Ercolani, Patricia; Benseny, Graciela Beatriz, 2017)
- Pérez, María Inés "El servicio postal en el sudoeste de la provincia de Buenos Aires, Argentina. Cambios y permanencias" (Santarelli, Silvia; Rigatuso, Elisabeth, 2016)
- Pinassi, Carlos Andrés "La creación de un nuevo espacio turístico a través de la valoración del patrimonio cultural: el caso de Bahía Blanca" (Ercolani, Patricia; Seguí Llinás, Miguel, 2016)
- Sereno, Claudia Avelina "Procesos socio ambientales en un espacio de borde. Estrategias de los actores en el rural bahiense" (Santarelli, Silvia, 2017)
- Tonellotto, Sandra Elena "Puerto, actores y territorio (puerto de Bahía Blanca, Buenos Aires, República Argentina). Globalización y descentralización" (Bustos Cara, Roberto Nicolás, 2017)
- Winschel, Cristina Inés "Integración de la información ambiental en estudios de degradación de los suelos para los partidos de Villarino y Patagones, provincia de Buenos Aires, Argentina" (Uboldi, Julio Alberto, 2017)
- Volonté, Antonela "Geomorfología digital aplicada. Cuenca del arroyo San Bernardo en el Sistema de Ventania, provincia de Buenos Aires" (Campo, Alicia María; Directora adjunta: Gil, Verónica, 2017)

Maestría en Procesos Locales de Innovación y Desarrollo Local (PLIDER):

- Diotto, María Celina "Análisis de la sustentabilidad de sistemas de producción hortícola en el área cercana a la ciudad de Bahía Blanca" (Lorda, María Amalia; Codirector: Sarandón, Santiago, 2017)
- Li, Sebastián "Los sistemas de conocimiento técnico local en las poblaciones rurales dispersas en la meseta chubutense. Las redes de diálogo técnico en la localidad de Gualjaina" (Sili, Marcelo; Codirector: Veiga Junior, Iran Pereira, 2016)

Ocampo, Gustavo Regino “El proceso de transformación territorial de la Colonia Cushamen, Chubut. La intervención de las políticas públicas y su impacto en la construcción de capital social” (Bustos Cara, Roberto Nicolás; Veiga Junior, Iran Pereira, 2017)

Salomón, María Carla “Migraciones y arraigo en el desarrollo territorial. El caso de la agricultura periurbana en Comodoro Rivadavia” (Albaladejo, Christophe, 2016)

Licenciatura en Turismo:

Allen, María Belén “Seguros de asistencia al viajero: evaluación de la información asimétrica entre las empresas aseguradoras y el pasajero, al momento de la contratación” (María del Rosario Fernández, 2017)

Amarilla, Giselle “Valorización de la Gastronomía en la ciudad turística de Las Grutas. Plan de negocios para el desarrollo de un nuevo producto turístico gastronómico en Complejo Mora” (Mauro Trellini, 2016)

Andrada, Manuel “Turismo deportivo y de eventos en Bahía Blanca. El motocross como diversificación de la oferta turística de eventos de deporte motor en la ciudad” (Valeria Gil, 2016)

Barragán, Luciana “El turismo LGBT como segmento de mercado emergente en Argentina” (Cecilia A. Rodríguez, 2017)

Barrera, Lucia “Estudio de pre factibilidad para emprendimiento de turismo aventura. El caso de ‘Del Valle Travesías’ en la ciudad de Neuquén, provincia de Neuquén” (Viviana Leonardi, 2016)

Berger, Silvia Noemí “Turismo rural en el establecimiento ‘El Campito’ como instrumento revalorizador de la identidad y vivencias rurales” (Alejandra, Monachesi, 2016)

Bernat Anzoategui, Victoria Ana, “Puesta en valor recreativa de un tramo del arroyo Napostá Chico en la localidad de Cabildo, partido de Bahía Blanca” (María Isabel Haag, 2017)

Besagonill, Valeria “El patrimonio histórico cultural de la localidad de Carhué como alternativa para potenciar el desarrollo turístico termal” (Rosa Angela Fittipaldi; Co-Directora: Alejandra Gerdali, 2017)

Castillo, Adela del Carmen “El Parque Noroeste, un nuevo espacio de ocio público para la ciudad de Bahía Blanca” (Paola Rosake, 2017)

Corpaz, Daiana “Potencialidad turística del Partido de Necochea. Lineamientos para la diversificación de la oferta turística recreativa” (Valeria Gil, 2016)

Cufré, María Eugenia “Imagen marca: proceso de selección de atractivos turísticos de la localidad de Choele Choel para su diseño” (Valeria Gil; Co-Director: Mario Litterio, 2016)

Delgado, Lucía Magalí “Proceso de valorización del Parque de la Independencia como espacio de ocio” (Paola Rosake, 2017)

Dell’Arciprete, Javier “Circuitos recreativos-educativos en el partido de Coronel Dorrego” (María Isabel Haag; Co-Directora: María Natalia Prieto, 2016)

De Lucca, Magdalena “Data Mining y Turismo: Un enfoque integral para potenciar la imagen de marca Argentina” (Patricia Ercolani; Co Director: Carlos Chesñevar, 2017)

De Uribe Echevarría, Eileen Maite “Turismo colaborativo en la ciudad de Bahía Blanca” (Brenda, Jonke, 2017)

Díaz, Sergio Miguel “Los espacios culturales en la ciudad de Bahía Blanca: marco institucional y normativa legal” (Pedro Cristóbal Doiny Cabré; Co-Directora: Patricia Ercolani, 2016)

Dilschneider, Luciana “Propuesta de valorización del patrimonio ambiental y su potencialidad para el desarrollo del ecoturismo en el Área Natural Protegida Caleta de los Loros – Pozo Salado – Punta Mejillón. Provincia de Río Negro” (María Amalia Lorda; Co-Directora: María Belén Kraser, 2016)

Dominguez, Brunella “Diseño de una estrategia digital de comunicación para un emprendimiento turístico. Caso de análisis: Establecimiento Plas y Coed, Gaiman, Chubut” (Jonke, Brenda; Co-Director: Laco, Juan Pablo, 2017)

Eciolaza, Florencia “El turismo en espacios rurales como actividad dinamizadora del desarrollo socioeconómico local. Estudio de caso: partido de Patagones” (Patricia Ercolani, 2016)

Ernst, Lucía “Medición de la calidad de los servicios educativos percibida por los alumnos de 5º año de la carrera Licenciatura en Turismo (Plan 2010)” (Soledad Gallucci; Co-Directora: Ana Lía Guerrero, 2016)

Fajardo, Melisa “Análisis y evaluación de la potencialidad turística de Jacinto Arauz como estrategia para el desarrollo local” (Valeria Gil, 2016)

Fernández, Luciano “Propuesta de un sendero interpretativo autoguiado en el Bosque Encantado, de Pehuen Co” (Paola Rosake; Co Directora: Patricia Rosell, 2016)

Figueroa, Carolina “Turismo de eventos en la ciudad de Bahía Blanca. Caso de estudio XXV Jornadas Nacionales de Derecho Civil” (Valeria Gil; Co-Directora: Daniela Murello, 2016)

Gazo Iuale, Mercedes “La Fiesta de la Soberanía Patagónica como patrimonio identitario local y recurso turístico de Carmen de Patagones” (Isabel Haag, María, 2016)

Gazo Iuale, Rosario “Valorización paisajística y desarrollo turístico. Configuración de la Ruta Nacional N° 3 como ruta escénica en el partido de Patagones” Andres Pinassi; Co-Directora: Erica Schenkel, 2016)

Gerk, Sofia “El teatro comunitario como expresión cultural y potencial actividad recreativa en la ciudad de Coronel Suarez” (Andrés Pinassi; Co Director: Patricia Ercolani, 2016)

Gonzalez Carraro, Mauro “El posicionamiento de Monte Hermoso como destino turístico” (Cecilia Rodríguez; Co Directora: Luisina Zuccarini, 2017)

Gonzalez Casey, Jimena “La accesibilidad turística en la Argentina y su rol en las políticas de inclusión social” (Cecilia Rodríguez, 2016)

Lebed, Fernando “Atributos de calidad de servicios en gastronomía. Estudio de caso: Grupo Don Bartolomeo en Bahía Blanca, Buenos Aires” (Ana Lía Guerrero Co Directora: Soledad Gallucci, 2016)

Lusto, Lucía “Turismo de reuniones en Bahía Blanca: propuesta para el fortalecimiento de la ciudad como destino sede” Valeria Gil; Co-Directora: María Julia Arocena, 2016)

Mandolesi, Mario “Los espacios verdes como recursos turísticos complementarios del turismo urbano. Estudio de caso: el Parque de la Independencia de la ciudad de Bahía Blanca” (Julia Arocena, María, 2016)

Martínez, Gisele “La revalorización del patrimonio histórico cultural en el pueblo rural La Colina, Partido de General Lamadrid, provincia de Buenos Aires” (Alejandra, Monachesi, 2016)

Mercuri, Florencia “Evaluación turística para la localización de un sendero interpretativo en la costa sudoeste de la laguna Epecuén” (Rodríguez, Cecilia A.; Co-Directora: Gerdali, Alejandra, 2017)

Michalijos, Guillermina “Turismo urbano cultural: la actividad cinematográfica como oferta complementaria en Bahía Blanca” (Valeria Gil; Co-Directora: María Julia Arocena, 2016)

Miraglia Dario “El running como práctica turística-recreativa en Bahía Blanca. Potencialidad turística y perfil de la demanda” (María Julia Arocena; Co-Directora: Viviana Leonardi, 2017)

Morales, Aldana “Estrategias de desarrollo turístico en la ciudad de Belén, Catamarca, a partir de la planificación participativa” (Cecilia Rodríguez, 2016)

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Northeastern State University

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Western Oregon University

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Bucknell University
Mansfield University of
Pennsylvania
Shippensburg University of
Pennsylvania
Slippery Rock University of
Pennsylvania

RHODE ISLAND

Rhode Island College

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East Tennessee State University

TEXAS

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* Stephen F. Austin State University
University of Houston, Clear Lake
** University of Texas at Dallas
West Texas A&M University

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Emory & Henry College
Radford University

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University of Wisconsin, La Crosse
University of Wisconsin, Parkside
University of Wisconsin, Platteville
University of Wisconsin, Stevens Point

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University of Alberta, Augustana
Campus

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* British Columbia Institute of
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Camosun College
Capilano University
College of New Caledonia
College of the Rockies
Coquitlam College
Douglas College
Kwantlen Polytechnic University
Langara College
Okanagan College
Selkirk College
* Thompson Rivers University
Trinity Western University
University of British Columbia,
Okanagan

Vancouver Island University

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Brandon University
** University of Manitoba
University of Winnipeg

NEW BRUNSWICK

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Université de Moncton
University of New Brunswick

NEWFOUNDLAND

** Memorial University of Newfoundland

NOVA SCOTIA

Nova Scotia Community College
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ONTARIO

Algonquin College
* Lakehead University
Laurentian University
* Nipissing University
** Trent University
** University of Toronto, Mississauga
University of Toronto, Scarborough
** University of Windsor

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Université du Québec a Chicoutimi
* Université du Québec a Montréal
* Université du Québec a Rimouski
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** Université Laval
Vanier College

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* University of Saskatchewan

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Sociedad Argentina de Estudios Geográficos
Universidad Autónoma de Entre Ríos
Universidad Católica de Santiago del Estero
Universidad de Morón
Universidad del Salvador
Universidad Nacional de Catamarca
Universidad Nacional de Córdoba
** Universidad Nacional de Cuyo
Universidad Nacional de Formosa
Universidad Nacional de General
San Martín
Universidad Nacional de La Pampa

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- Universidad Nacional de La Rioja
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- Universidad Nacional de Tres de Febrero
- * Universidad Nacional del Centro de la Provincia de Buenos Aires
- Universidad Nacional del Comahue
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Galen University

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- * Escuela Militar de Ingeniería

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- Instituto Brasileiro de Geografia e Estatística
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- Universidade Estadual Paulista, Campus de Rio Claro
- Universidade Estadual Vale Do Acaraú
- Universidade Estadual de Roraima
- ** Universidade Federal da Bahia
- * Universidade Federal da Paraíba
- Universidade Federal de Alagoas
- * Universidade Federal de Goiás, Campus Jataí
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- Universidade Federal de Roraima
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- ** Universidade Federal do Rio Grande do Sul
- Universidade Federal do Triângulo Mineiro
- ** Universidade Federal Fluminense
- Universidade Federal Rural de Rio de Janeiro
- Universidade Gama Filho
- Universidade Salgado de Oliveira, Campus Belo Horizonte
- Universidade Salgado de Oliveira, Campus Niterói

CHILE

- Universidad Austral de Chile
- Universidad Bolivariana
- Universidad de Bio Bio
- * Universidad de Concepción
- * Universidad de Playa Ancha
- Universidad Metropolitana de Ciencias de la Educación
- Universidad San Sebastian

COLOMBIA

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- Pontifica Universidad de Colombia
- Universidad de Caldas
- Universidad de Ciencias Aplicadas y Ambientales
- Universidad de Nariño
- Universidad del Cauca

DOMINICAN REPUBLIC

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- Universidad Autónoma de Santo Domingo

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Universidad del Azuay
Universidad San Francisco de Quito

EL SALVADOR

Universidad del Salvador

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Geography Degrees Conferred in the United States 1947-1948 to 2015-2016

	BA/BS			MA/MS			PhD		
	M	F	Total	M	F	Total	M	F	Total
1947-1948	223	134	357	113	44	157	15	2	17
1948-1949	361	150	511	108	30	138	23	5	28
1949-1950	611	146	757	150	53	203	36	4	40
1950-1951	583	121	704	194	32	226	46	2	48
1951-1952	552	117	669	159	35	194	36	1	37
1952-1953	533	114	647	158	27	185	36	3	39
1953-1954	589	119	708	155	25	141	49	2	51
1954-1955	496	130	626	116	25	141	44	4	48
1955-1956	534	117	651	129	32	161	43	3	46
1956-1957	574	125	699	156	26	182	45	2	47
1957-1958	730	119	849	156	28	184	47	9	56
1958-1959	775	128	903	152	29	181	43	8	51
1959-1960	858	115	972	177	29	206	64	4	68
1960-1961	789	150	939	165	28	193	47	3	50
1961-1962	910	157	1,067	212	30	242	54	4	58
1962-1963	958	164	1,122	234	40	274	57	4	61
1963-1964	1,061	235	1,296	246	60	306	62	5	67
1964-1965	1,306	291	1,597	307	48	355	65	5	70
1965-1966	1,529	405	1,934	309	61	370	52	6	58
1966-1967	1,726	437	2,163	396	67	463	75	4	79
1967-1968	2,051	573	2,624	461	88	549	94	2	96
1968-1969	2,616	722	3,338	468	95	563	120	4	124
1969-1970	2,945	802	3,747	524	113	637	140	5	145
1970-1971	3,298	869	4,167	528	121	649	147	17	164
1971-1972	3,416	910	4,326	672	114	786	191	12	203
1972-1973	3,280	928	4,208	667	142	809	211	16	227
1973-1974	3,285	946	4,231	618	145	763	199	18	217
1974-1975	3,051	899	3,950	589	132	721	199	13	212
1975-1976	2,780	953	3,733	489	176	665	147	21	168
1976-1977	2,600	994	3,594	502	188	690	136	25	161
1977-1978	2,683	1,036	3,719	492	156	648	128	30	158
1978-1979	2,516	1,061	3,577	444	177	621	114	22	136
1979-1980	2,344	1,099	3,443	422	157	579	119	19	138
1980-1981	2,184	1,089	3,273	410	152	562	95	24	119
1981-1982	2,366	1,079	3,445	393	160	553	101	22	123
1982-1983	2,234	1,107	3,341	383	190	573	88	36	124
1983-1984	2,175	1,020	3,195	406	177	583	95	25	120
1984-1985	2,100	1,000	3,100	380	182	562	103	31	134
1985-1986	2,129	927	3,056	352	212	564	90	41	131
1986-1987	2,124	931	3,055	360	194	554	100	31	131
1987-1988	2,048	900	2,948	362	210	572	99	36	135
1988-1989	2,116	897	3,013	369	179	548	94	27	121
1989-1990	2,229	981	3,210	350	205	555	109	37	146
1990-1991	2,282	1,115	3,397	413	209	622	82	37	119
1991-1992	2,627	1,224	3,851	419	223	642	90	32	122
1992-1993	2,752	1,399	4,151	423	223	646	105	45	150
1993-1994	3,011	1,438	4,449	481	242	723	105	36	141

	BA/BS			MA/MS			PhD		
	M	F	Total	M	F	Total	M	F	Total
1994-1995	2,930	1,365	4,295	524	283	807	109	43	152
1995-1996	2,746	1,399	4,145	473	283	756	129	44	173
1996-1997	2,759	1,399	4,128	461	296	757	103	51	154
1997-1998	2,721	1,414	4,135	479	277	756	116	56	172
1998-1999	2,665	1,416	4,081	490	270	760	105	54	159
1999-2000	2,518	1,433	3,951	456	301	757	134	66	200
2000-2001	2,525	1,456	3,981	439	287	726	130	71	201
2001-2002	2,472	1,453	3,925	447	296	743	138	67	205
2002-2003	2,490	1,490	3,980	453	331	784	114	62	176
2003-2004	2,858	1,706	4,564	468	314	782	115	91	206
2004-2005	2,882	1,673	4,555	550	394	944	137	74	211
2005-2006	2,813	1,471	4,284	534	372	906	135	87	222
2006-2007	2,972	1,580	4,552	520	373	893	121	90	211
2007-2008	2,798	1,522	4,320	499	383	882	153	104	257
2008-2009	2,951	1,526	4,477	528	364	892	139	80	219
2009-2010	2,928	1,583	4,511	534	368	902	141	98	239
2010-2011	3,010	1,587	4,597	482	360	842	133	105	238
2011-2012	3,136	1,671	4,807	538	391	929	168	107	275
2012-2013	3,072	1,658	4,730	485	366	851	140	120	260
2013-2014	2,855	1,621	4,476	476	316	792	180	136	316
2014-2015	2,690	1,513	4,203	410	367	777	160	134	294
2015-2016	2,486	1,517	4,003	424	316	740	147	106	253

Source: The Integrated Postsecondary Education Data System of the National Center for Education Statistics.

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