

Guide to Geography Programs in the Americas 2014-2015



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ABOUT THE ASSOCIATION OF AMERICAN GEOGRAPHERS

The Association

The Association of American 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 more than 10,804 at the end of 2014. 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 Association of American Geographers (bimonthly)
- The Professional Geographers (quarterly)
- The AAG Review of Books
- 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 San Francisco (2016), Boston (2017) and New Orleans (2018).

Publications

- The Annals of the Association of American 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 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 The AAG will be launching a new journal, GeoHumanities, which builds on the AAG's decade-long initiative
 on geography and the humanities.

AAG Newsletter

The online <u>AAG Newsletter</u> 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 <u>AAG Jobs in Geography Center</u> 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 <u>AAG Knowledge Communities</u> 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 Association of American Geographers, 1710 16th Street NW, Washington, DC 20009-3198. Phone 202-234-1450. Fax 202-234-2744. Email: <u>membership@aag.org http://www.aag.org</u>

PREFACE

The 2014-2015 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 2014-2015 Guide lists a total of 98 academic institutions in the United States, Canada and Latin America known to offer a doctorate in geography. The volume also contains information on 73 institutions in which the master's is the highest degree offered and 271 that offer bachelor's degrees in geography.

The <u>AAG Handbook</u> 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 301. It provides a permanent record of graduate research in geography. Students and faculty concerned with accepting and offering financial assistance should review the <u>Council of Graduate</u> <u>Schools in the United States Resolution Regarding Graduate Scholars, Fellows, Trainees, and Assistants</u> on for information regarding dates for accepting and declining offers of financial support.

The <u>AAG Member Directory</u> 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 <u>AAG Knowledge Communities</u> 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 and Astrid Ng, 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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Grupo de Investigación Interinstitucional	
Geopaideia	
Razón Cartográfi ca, Red de Historia de las	
Geografías y Cartografías de Colombia	
* Universidad de los Andes, Bogotá	
Universidad del Valle	
Universidad Externado de Colombia	
** Universidad Nacional de Colombia	
Universidad Pedagogica y Tecnologica	
de Colombia	
* University of Cordoba, Colombia	
COSTA RICA	
* Universidad de Costa Rica	
* Universidad Nacional de Costa Rica	
CUBA	
* Universidad de la Habana	

EDUADOR

	Centro Panamericano de Estudios e	
	Investigaciones Geográfico, Cepeige	
	* Pontificia Universidad Católica del Ecuador	
25	JAMAICA	
	** University of the West Indies-Mona	

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MEXICO

Centro de Investigaciones en Geografia
Ambiental, UNAM
* El Colegio de Michoacán
Instituto Panamericano de Geografía e Historia
** Instituto Politécnico Nacional
Pan American Institute of Geography and History
Universidad Autónoma de Ciudad Juárez
Universidad Autónoma de San Luis Potosí
Universidad Autónoma Metropolitana, Campus
Iztapalapa
Universidad de Guadalajara
** Universidad Nacional Autónoma de México
* Universidad Autónoma del Estado de México
NICARAGUA
Universidad Nacional Autónoma de Nicaragua.
Managua
PANAMA
Universidad Autonoma de Chiriqui
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PARAGUAY
Universidad Nacional de Asunción, Paraguay
PERU
Pontificia Universidad Católica del Perú
* Universidad Nacional Mayor de San Marcos
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PUERTO RICO
University of Puerto Rico
TRINIDAD AND TOBAGO
* University of the West Indies, St. Augustine
URUGUAY
Asociación Nacional de Profesores de
Geografía-Uruguay
Centro Regional de Profesores del Norte
VENEZUELA
Universidad Central de Venezuela

UNITED STATES

ALABAMA

AUBURN UNIVERSITY

DEPARTMENT OF GEOSCIENCES DATE FOUNDED: 1999

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

GRANTED 9/1/13-8/15/14: 9 BA Geography; 12 BS Geology; 3 MS Geography; 9 MS Geology

MAJORS: 40 Undergrad Geography; 70 Undergrad Geology; 10 Graduate Geography; 20 Graduate Geology

CHAIR: Mark Steltenpohl

PROGRAM ADMINISTRATIVE ASST: Audrey Hollis

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geosciences, 210 Petrie Hall, Auburn University, Auburn, Alabama 36849. Telephone (334) 844-4074. Fax (334) 844-3409. E-mail: steltmg@auburn.edu. Internet: http://www.auburn.edu/academic/cosam/departments/geosciences/ind ex.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:

Philip L. Chaney, Ph.D., Louisiana State University, 1999, Associate Professor — water resources, natural hazards, coastal geography

- Yingru Li, Ph.D. University of Utah, 2012, Assistant Professor economic, medical, quantitative methods, gis
- Luke Marzen, Ph.D., Kansas State University, 2001, Professor remote sensing, gis, human and environmental interface, biogeography, land use change
- Daniel McGowin, Ph.D., Florida State University, 2011, Lecturer cultural, political, ethnicity, sports
- Chandana Mitra, Ph.D., University of Georgia, 2011, Assistant Professor — climatology, urban climate, geospatial techniques, climate modeling
- 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

UNIVERSITY OF ALABAMA

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1903 GRADUATE PROGRAM FOUNDED: 1963 DEGREES OFFERED: B.A., B.S., M.S. in Geography, B.S. in Environmental Science GRANTED 6/1/13-5/31/14: 49 Bachelors, 13 Masters STUDENTS IN RESIDENCE: 154 Majors, 31 Masters NOT IN RESIDENCE: 4 Masters CHAIR: Douglas Sherman DEPARTMENT ADMINISTRATIVE ASSISTANT: Leigh Ann Franklin

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Justin Hart, Department of Geography, Box 870322, 202 Farrah Hall, University of Alabama, Tuscaloosa, Alabama 35487-0322. Telephone (205) 348-5047. Fax (205) 348-2278. E-mail: hart013@bama.ua.edu. Internet: www.as.ua.edu/geography.

PROGRAMS: The curricula supporting the B.A. and B.S., and M.S. degrees in Geography and Environmental Science and the M.S. degree 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 is an interdisciplinary program that requires coursework in other natural sciences. The graduate program emphasizes a thesis-oriented approach to develop theoretical and nethodological expertise and allows students to concentrate in human or physical geography with a broad range of options within each.

RESEARCH FACILITIES: The Department is located in a 30,000 square foot facility near the center of campus. The Department operates 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 forest development and successional patterns, forest ecosystem ecology, and ecological plant geography. The Spatial Ecology and Conservation Laboratory focuses on human

impacts of ecosystems, especially as recognized with remote sensing techniques, including the use of UAV data. The physical lab comprises four rooms each devoted to specific tasks and the lab is well equipped for projects in forest research and dendrochronology.

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 receive 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: The graduate academic program requires the completion of 30 to 39 graduate semester hours with at least twothirds being courses numbered 500 or above. Six to nine hours of electives in related fields are allowed with departmental approval. The Certificate in Regional and Urban Planning, an option, includes courses in Public Administration, Economics, and Geography and may be attached to a graduate degree in Geography. The program is open to qualified students with either an undergraduate major in geography or a major acceptable to the Department. A combined score of at least 300 on verbal and quantitative portions of the GRE and an undergraduate B average are required for unconditional admission.

Fellowships, teaching and research assistantships ranging from \$13,707 to \$15,000 for the academic year are regularly granted on a competitive basis. Two cartographic assistantships are available in the Cartographic Research and GIS Research Labs. Most assistantships include tuition waivers and health insurance.

FULL-TIME FACULTY:

- Seth Appiah-Opoku, Ph.D., Waterloo, 1997, Associate Professor urban and regional planning, environmental planning and management, Africa
- Eben N. Broadbent, Ph.D., Stanford, 2012, Assistant Professor tropical ecology, conservation, climate change
- Sagy Cohen, Ph.D., Newcastle, 2010, Assistant Professor GIS, numerical modeling, geomorphology
- M. A. Lisa Davis, Ph.D., Tennessee, 2005 Associate Professor and Director of the Environmental Science Program geomorphology, watershed processes, and environmental change
- Steven P. Ericson, Ph.D., Oklahoma State, 2014, Instructor human geography, sports geography
- Luoheng Han, Ph.D., Nebraska, 1994, Professor and Associate Dean — remote sensing, GIS, water quality
- Justin L. Hart, Ph.D., Tennessee, 2007, Associate Professor and Director of Graduate Admissions and Recruitment biogeography, vegetation dynamics, natural resource management
- Mary W. Pitts, M.S., London, 1989, Instructor and Director of Undergraduate Studies — natural hazards, environmental site assessment, and water resources
- Sarah Praskievicz, Ph.D., Oregon, 2014, Assistant Professor water resources, climate change, hydrology
- Jeffrey P. Richetto, Ph.D., Ohio State, 1977, Associate Professor urban and regional planning, economic, and industrial/retail site analysis
- Jason C. Senkbeil, Ph.D., Kent State, 2007, Associate Professor severe weather hazards, climatology
- Douglas J. Sherman, Ph.D., Toronto, 1983, Professor and Chair Geomorphology

- Michael K. Steinberg, Ph.D., Louisiana State, 1999, Associate Professor of New College and Geography — cultural ecology, biogeography, endangered species
- Matthew D. Therrell, Ph.D., Arkansas, 2003, Associate Professor dendrochronology, climate reconstruction, biogeography
- Joe Weber, Ph.D., Ohio State, 2001, Professor and Director of Graduate Studies — transportation, national parks, GIS, urban geography

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

ADJUNCT FACULTY:

- Bennett L. Bearden, J.S.D., Pacific, 2011 Director, Water Policy and Law Institute
- Thomas J. Kallsen, M.S., Alabama, 1980, M.L.S., Emporia State, 1983, Map Library Supervisor — map reading and interpretation skills, topology and toponymy
- Craig Remington, M.S., Florida State, 1981, Cartographic Lab Supervisor — traditional and computer cartography, world regional
- Angelica Almeyda Zambrano, Ph.D., Stanford, 2012 political ecology, conservation and development

UNIVERSITY OF NORTH ALABAMA

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1929 DEGREES OFFERED: B.A., B.S., M.S., in Geography, M.S. in Geospatial Science. GRANTED 9/1/14-7/31/15: 36 Bachelors GRANTED 9/1/14-7/31/15: 05 Masters MAJORS: 111 CHAIR: Francis T. Koti DEPARTMENT ADMINISTRATIVE ASST: Pam Bishop GRADUATE PROGRAM COORDINATOR: Dr. David

Brommer (256) 765-6307

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Francis T. Koti, Department of Geography, University of North Alabama, Florence, Alabama 35632-0001. Telephone (256) 765-4219, Fax (256) 765-4141 (address c/o Francis T. Koti, Department of Geography). E-mail: ftkoti@una.edu Internet: www.una.edu/geography.

PROGRAMS AND RESEARCH FACILITIES: The department offers three undergraduate major programs: Geographic Information Science, Business Geography and General Geography. The major in Geographic Information Science is designed for students who wish to pursue careers in applied geography through studies in economic geography, land use analysis and planning, Remote Sensing and Geographic Information Systems. The GIScience major prescribes courses in statistics, computer science and computer information systems. Business Geography applies the spatial perspective to business activities. The major in General geography is for students interested in careers in government, business and industry, and geographic education. Students can receive internships and co-op experience in urban and regional planning, geographic information systems, electrical utilities analysis, and environmental management. The department also offers a Master's of Sciences.

The department houses the Freddie Wood Geographic Research Center (FWGRC) which has 36 PC's dedicated to undergraduate GIS, Remote Sensing, and GPS applications. Software includes: ERDAS Imagine, ArcGIS, and a variety of 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 Aids Office.

FACULTY:

- David M. Brommer, Ph.D., Arizona State University, 2006, Associate Professor — physical geography, climatology, meteorology, environmental hazards
- Jonathan P. Fleming, Ph.D., Mississippi State University, 2012, Assistant Professor — physical geography, cartography, GIS, applied geospatial analysis
- Gregory G. Gaston, Ph.D., Oregon State University, 1993, Professor — physical geography, remote sensing, geomorphology, climatology and GIS
- Francis T. Koti, Ph.D., West Virginia University, 2004, Professor urban geography, urban and regional 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 J. Pretes, Ph.D., Australian National University, 2006, Professor — development, finance, political, tourism, Australia, Pacific, and Arctic
- 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

EMERITUS FACULTY:

- Gary M. Green, M.A., Georgia, 1976, Associate Professor economic, political, conservation, geographic education, the South, Europe, North America
- Priscilla Holland, Ed.D., University of Alabama, 1997, Assistant Professor and Assistant Vice President for Academic Support Services — geographic education
- William R. Strong, Ph.D., Texas, 1979, Professor cultural, cartography, geographic education, geographic thought, Central America

UNIVERSITY OF SOUTH ALABAMA

DEPARTMENT OF EARTH SCIENCES DATE FOUNDED: 1964 DEGREES OFFERED: B.S. Geography GRANTED 9/1/14-8/31/15: 12 Bachelors MAJORS: 41 CHAIR: Sytske Kimball DEPARTMENT ADMINISTRATIVE ASSISTANT: Cathi Miller

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Sytske Kimball, Chair, Department of Earth Sciences, 5871 USA Dr. N., Room 136, University of South Alabama, Mobile, Alabama 36688. Telephone (251) 460-6381. Fax (251) 461-1487. Email: skimball@southalabama.edu. Internet: http://www.southalabama.edu/colleges/artsandsci/earthsci/geography/i ndex.html.

FACULTY:

- Lary M. Dilsaver, Ph.D., Louisiana State University, 1982, Professor Emeritus — historical geography, conservation, national parks and preserves
- Miriam L. Fearn, Ph.D., Louisiana State University, 1995, Associate Professor — biogeography, physical geography, field work
- Karen J. Jordan, M.Sc., University of Alabama, 2005, Senior Instructor — physical geography, remote sensing
- Frances C. Mujica, Ph.D., Louisiana State University, 2007, Assistant Professor — Geography of Health, Latin America, tourism, geographic education
- Roy H. Ryder, Ph.D., University of Florida, 1989, Professor Latin America, cartography, remote sensing
- Carol F. Sawyer, Ph.D. Texas State University, 2007, Associate Professor — geomorphology, alpine geography, natural hazards, geographic education
- Glenn R. Sebastian, D.A., University of Northern Colorado, 1977, Associate Professor Emeritus — physical geography, geographic education
- Samuel T. Stutsman, M.Sc., University of Alabama, 1993, Senior Instructor — physical geography, GIS
- Aaron Williams, Ph.D., University of Oklahoma, 1971, Associate Professor Emeritus — meteorology, physical geography
- Eugene M. Wilson, Ph.D., Louisiana State University, 1969, Professor Emeritus — physical and cultural geography

PROGRAMS AND RESEARCH FACILITIES: The Earth Sciences Department offers a B.S. in Geography, minors in Geography and GIS, and a 6-course GIS certificate. A major in geography gives each student a balanced education in the fundamental aspects of geography as well as several courses in geographic techniques. Majors take introductory courses in human, physical, and world geography, plus cartography, remote sensing, research methods, and field work. Students must also take six additional upper division courses from at least three of the following categories: human, physical, regional, or technical. Geography majors are required to have minors and frequently choose Geology or Meteorology, further strengthening their education in the Earth Sciences. The department has two state-of-the-art computer labs. The department and faculty support and encourage student participation in conferences, internships, and field trips. Two student organizations, the Delta Lambda chapter of Gamma Theta Upsilon and the Geography Club, both organization trips to geography conferences annually.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. For admission and financial aid information go to www.southalabama.edu/admissions.

UNIVERSITY OF ALASKA FAIRBANKS

DEPARTMENT OF GEOSCIENCES

DATE FOUNDED: 1967

- DEGREES OFFERED: B.A. Geography, B.S. Geography, B.A. Earth Sciences, B.S. Geosciences, M.S., Ph.D. Geology, M.S., Ph.D. Geophysics
- DEGREES GRANTED 7/1/13-6/30/14: 6 Geography Bachelors, 10 Geoscience Bachelors, 1 Earth Science Bachelors, 15 M.S., 11 Ph.D.
- STUDENTS IN RESIDENCE: 30 Geography Majors, 60 Geoscience Majors, 4 Earth Science Majors, 40 M.S., 30 Ph.D.
- GEOSCIENCES DEPARTMENT CHAIR: Paul McCarthy

GEOGRAPHY PROGRAM CHAIR: Cary W. de Wit ADMINISTRATIVE ASSISTANT: Carrie Green

FOR CATALOG AND FURTHER INFORMATION CONTACT: Carrie Green, Administrative Assistant, Department of Geosciences, PO Box 755780, University of Alaska Fairbanks, Fairbanks, AK, 99775-5780. Telephone (907) 474-7565. Fax: (907) 474-5163. Email: uaf-geosciences@alaska.edu Web:

http://www.uaf.edu/geology/geography/

GEOGRAPHY PROGRAMS AND RESEARCH FACILITES:

Program specialties: Alaska, Circumpolar North, North America, Climate & Environmental Change, Geospatial Sciences, and Environmental Studies. UAF offers unparalleled access to northern environments and cultures for coursework, research, and internships. Within easy reach are glaciated landscapes of all ages, active glaciers, tundra, permafrost, boreal forest, temperate rainforest, sea ice, thermal springs, streams of all sizes, bush villages, mine sites, and wilderness. Foreign exchange relationships allow students to study in Australia, Norway, U.K., Siberia, Yukon Territory, Quebec, Ontario, and Newfoundland, among others. Internship opportunities include placement with the Alaska Satellite Facility, Alaska Division of Forestry, Alaska Department of Natural Resources, Alaska Coastal Research Center, Alaska Department of Fish and Game, National Park Service, National Forest Service, Bureau of Land Management, National Weather Service, and U.S. Geological Survey.

The B.A. in Geography gives students a broad understanding of the interactions among the physical environments, economics, political events, and cultures in various regions of the world, and equips students with the ability to interpret contemporary geopolitical and environmental issues. The degree program can be tailored to prepare students for teaching geography or social science in K-12 schools, for professional work in government or industry, or for graduate study.

The Program offers three B.S. degree concentrations: Landscape Analysis and Climate Change Studies, Geospatial Sciences, and Environmental Studies. Each degree option gives students an understanding of the fundamental components of the natural environment, fosters an interdisciplinary perspective on environmental issues, equips students with a diverse selection of technical and scientific approaches to environmental analysis, and enhances their ability to formulate balanced solutions to contemporary environmental problems. Our Geography B.S. graduates readily find professional positions in national, state, and local government agencies, in private industry, and in research settings.

The program administers several K-12 programs, including: teacher training, outreach, and curriculum development throughout the state of

Alaska, in collaboration with the National Geographic Society; and a technology-focused collaborative education outreach program with Google Earth. All of these programs offer undergraduate and graduate students opportunities to engage in outreach and research collaborations.

Situated in the heart of interior Alaska, UAF is an ideal place to experience life in the far north. You'll experience abundant wildlife, the Northern Lights, and dramatic seasonal changes in sunlight and temperature. Year-round outdoor recreation opportunities abound on campus, around Fairbanks, and within a few-hours' drive, including downhill and cross-country skiing, hiking, river- and sea-kayaking, wilderness backpacking, rock- and ice-climbing, dog-sledding, wildlife photography, and world-class hunting and fishing.

ACADEMIC PLAN, ADMISSION REQUIREMENTS AND FINANCIAL AID: Semester system. Summer sessions also available. Admissions: Office of Admissions, University of Alaska Fairbanks, 102 Signers' Hall, P.O. Box 757480, Fairbanks, AK 99775-7480. Toll-free: (800) 478-1823, Local: (907) 474-7500. Fax: (907) 474-7097. Email: admissions@uaf.edu. Web: www.uaf.edu/admissions. Financial Aid: Financial Aid Office, University of Alaska Fairbanks, 107 Eielson Building, P.O. Box 756360, Fairbanks, AK 99775-6360. Phone: (907) 474-7256. Fax: (907) 474-7065. Email: uaf-financialaid@alaska.edu. Web: www.uaf.edu/finaid.

GEOGRAPHY FACULTY:

- Cary W. de Wit, PhD, Kansas, 1997, Associate Professor cultural, sense of place, perceptual geography, energy geopolitics, North-American culture regions
- Christopher V. Maio, PhD, University of Massachusetts-Boston, 2014, Assistant Professor — physical, coastal geomorphology, coastal environmental change, climate change
- Daniel J. Mann, PhD, University of Washington, 1983, Associate Professor — quaternary studies, forest ecology, ice-age climate change, interactions between prehistoric humans and changing climate
- Roger W. Pearson, PhD, Illinois, 1970, Professor Emeritus cultural, political, northern development, geographic education, circumpolar north

GEOLOGY AND GEOPHYSICS FACULTY:

- James Beget, PhD, University of Washington, 1981, Professor quaternary geology, tephrachronology, volcanology, geomorphology
- Patrick Druckenmiller, PhD, University of Calgary (Canada), 2006, Associate Professor — vertebrate paleontology specializing in Mesozoic marine reptiles; plesiosaur and ichthyosaur phylogeny; Jurassic marine reptiles of Svalbard, Norway; Alaskan dinosaurs
- Hajo Eicken, PhD, University of Bremen, Germany, 1990, Professor — sea ice geophysics
- Sarah Fowell, PhD, Columbia University, 1994, Associate Professor — reconstruction of ancient ecosystems and climates through identification of pollen and spores preserved in lacustrine sediments or rocks.
- Jeff Freymueller, PhD, University of South Carolina, 1991, Professor — seismology and volcanology
- Regine Hock, PhD, ETH/Swiss Federal Institute of Technology (Zurich), 1997, Professor — glacier mass balance, glacier meteorology and hydrology
- Jessica Larsen, PhD, University of California, Santa Cruz, 1996, Associate Professor — volcanology and petrology, natural hazards
- Paul McCarthy, PhD, University of Guelph (Canada), 1995, Professor — paleolandscape evolution, alluvial architecture and nonmarine sequence stratigraphy
- Franz J. Meyer, PhD, Technical University of Munich, Germany, 2004, Research Assistant Professor — development of advanced SAR, InSAR, PS-InSAR

- Erin Pettit, PhD, University of Washington, 2003, Assistant Professor — glacier dynamics and climate change
- Anupma Prakash, PhD, Indian Institute of Technology of Roorkee, 1996, Professor — mapping Earth Surface Composition and Change; Remote Sensing and GIS
- Vladimir Romanovsky, PhD, Moscow State University, 1982, PhD, University of Alaska Fairbanks, 1996, Professor — cold region soil engineering problems and modeling
- Michael Whalen, PhD, Syracuse University, 1993, Associate Professor — stratigraphy and sedimentation, environmental geology

GEOGRAPHY AFFILIATE FACULTY:

- Glenn P. Juday, PhD, Oregon State, 1976, Associate Professor, Department of Natural Resources Management — forest ecology, natural area protection and management, global climate change
- David L. Verbyla, PhD, Utah State, 1988, Professor, Department of Natural Resources Management — GIS applications to resource inventory, climate change studies, and regional analysis

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: B.A., B.S., B.S.P., M.A., M.A.S., M.U.E.P., M.U.E.P. 4+1, Ph.D. in Geography and Ph.D. in Planning
- Granted Bachelors: 7/1/11-6/30/2012: 149; 7/1/2012-6/30/2013: 166; 7/1/2013-6/30/2014: 158
- Granted AY 2013: M.A. 11, M.A.S.-GIS 40, M.U.E.P. 19, Ph.D. Geography 15
- Granted spring 2014: M.A. 1, M.U.E.P. 20, Ph.D. Geography 3
- Students in Residence spring 2015: 410 Undergraduate, Graduate 141

DIRECTOR: Elizabeth A. Wentz

FURTHER INFORMATION WRITE TO: Graduate Program Coordinator, 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 Internet: geoplan.asu.edu

PROGRAMS AND RESEARCH FACILITIES: The School of Geographical Sciences and Urban Planning at ASU offers five graduate degree programs: traditional Master of Arts and Ph.D. degrees in Geography (with an option for a Masters in Passing), one professional Master's degree in Urban Planning (M.U.E.P.), a professional Master of Advanced Study (MAS) degrees in Geographic Information Systems (MAS/GIS) and Ph.D. in Planning.

The M.A. degree requires 30 semester hours beyond the bachelor's degree and a thesis. The M.U.E.P. degree requires 47 credit hours and has three different options for completion: thesis, professional project or capstone studio. The PhD degree program through the Masters in Passing (M.I.P) requires 30 semester hours of graduate credit beyond the bachelor's degree and 54 semester credits after passing the

research and field examination, which constitutes advancement into the Ph.D. program. No master's thesis is required. The traditional (post master's) Ph.D. degree requires 84 semester credits of which 30 can be used from a master's degree.

The M.A. and Ph.D. degrees in Geography are focused on four broad interdisciplinary areas of inquiry: Computational Spatial Science, Cultural Geographies – Place, Culture, Identity, Earth Systems and Climate Science, and Sustainability Science and Studies.

The Master of Advanced Study degree in Geographic Information Systems (M.A.S./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 and on weekends to accommodate full-time work schedules.

The Ph.D. in Planning focuses on four broad interdisciplinary themes that span the expertise of the faculty within the School of Geographical Sciences and Urban Planning; Community Development for Social Equity; Spatial and Economic Analysis; Transportation Planning and Policy; and Urban Design and Sustainable Cities.

ASU is transforming itself into a model for the New American University, emphasizing intellectual fusion and transdisciplinary useinspired 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, such as the School of Human Evolution and Social Change, the School of Sustainability, and the Consortium for Science, Policy and Outcomes. Faculty play major roles in several transdisciplinary research efforts, including the Global Institute of Sustainability, the Decision Center for a Desert City, the Central Arizona-Phoenix Long Term Ecological Research Project (CAP-LTER), the State Climatologist Office, the Center for Social Dynamics and Complexity, the Decision Theater, and the GeoDa Center for Geospatial Analysis and Computation. 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. Admission requirements for MA: undergraduate major in geography or 15 semester hours in geography and related fields, with a B average for the last two academic years; for M.U.E.P is undergraduate major in Urban Planning and related fields with a B average for the last two academic years; for Ph.D. Geography - Master's degree in geography or related field or equivalent, and B average at the graduate level; admission to the Ph.D. program through the Masters in Passing option is possible directly following a bachelor's degree; for PhD Urban Planning - Master's or graduate degree in urban studies, geography, environmental studies, sustainability, architecture, public policy or public administration with a B average at the graduate level. GRE scores are required and used in determining admittance into programs. The Test of English as a Foreign Language (TOEFL) required for 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. Graduate assistants and associates receive waivers of all out-of-state and in-state tuition, and health benefits.

FACULTY:

- Luc Anselin, Ph.D., Cornell, 1980, Walter Isard Chair and Professor — geographic information science, spatial econometrics, regional science
- Daniel D. Arreola, Ph.D., UCLA, 1980, Professor cultural, landscapes, Mexican-American borderlands
- Robert C. Balling Jr., Ph.D., Oklahoma, 1979, Professor climatology, climate change, physical climatology, spatial statistics
- Randall S. Cerveny, Ph.D., Nebraska, 1986, President's Professor dynamic and synoptic meteorology, global climate modeling
- Netra Chhetri, Ph.D., Pennsylvania State, 2007, Associate Professor — land uses & cover, human dimensions of global climate change, water resources, political ecology of resources
- Katherine Crewe, Ph.D., Massachusetts, 1997, Associate Professor planning practice and transportation; historic preservation, citizen participation, gender studies and planning, physical planning/urban design, International Urban Design
- Stephanie Deitrick, Lecturer and MAS-GIS Program Director Cartography, visualization, GIS
- Ronald I. Dorn, Ph.D., UCLA, 1985, Professor desert, hill slope, and quaternary geomorphology, dating methods, remote sensing
- Megan Ehlenz, Ph.D., University of Pennsylvania, 2015, Assistant Professor — community development, anchor institutions, urban revitalization, community wealth building, shared equity models
- Stewart Fotheringham, Ph.D., McMaster University, Canada, 1980 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
- Janet Franklin, Ph.D., University of California, Santa Barbara, 1988, Professor — landscape ecology, biogeography, remote sensing, geographic information science
- Matei Georgescu, Ph.D., Rutgers University, 2008, Assistant 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, Ph.D., Ohio State, 1975, Research Professor population, housing demography, urban, migration
- Bjoern Hagan, Ph.D., Arizona State University, 2013, Lecturer Environmental risk perception and communication, mitigation and adaptation policies and strategies for global climate change, sustainable urban planning
- Jason Kelley, Ph.D., Arizona State University, 2013, Lecturer Urban transportation planning, environmental justice, sustainable urban planning and design
- Joochul Kim, Ph.D., Michigan, 1979, Associate Professor community planning, economic development planning, housing and international planning
- Julia Koschinsky, Ph.D., Illinois, 2008, Associate Research Professor and Research Director, GeoDa Center for Geospatial Analysis and Computation — spatial analysis, housing, program evaluation, research design
- Michael Kuby, Ph.D., Boston, 1988, Professor economic geography, location analysis, energy, mathematical models and quantitative methods, transportation
- Kelli L. Larson, Ph.D., Oregon State at Corvallis, 2004, Associate Professor — water science and policy, sustainability
- Elizabeth Larson, Ph.D., Wisconsin, Milwaukee, 1991, Lecturer Latin American social geography
- Wei Li, Ph.D., Southern California, 1997, Professor race and urban ethnicity, housing
- Wenwen Li, Ph.D., George Mason University, 2010, Assistant Professor — Geographic information science, geospatial cyberinfrastructure, semantic interoperability
- Kevin E. McHugh, Ph.D., Illinois, 1984, Associate Professor population, social migration, geography of aging

- Ariane Middel, Ph.D., University of Kaiserslautern, 2008, Assistant Research Professor — Urban climate; climate observation, modeling and simulation;
- Soe Winn Myint, Ph.D., Louisiana State, 2001, Professor environment, remote sensing
- Breandán Ó hUallacháin, Ph.D., Illinois, 1982, Professor economic, industrial location, urban, regional economic development
- Martin J. Pasqualetti, Ph.D., University of California, Riverside, 1977, Professor — natural resources, energy, environmental systems, nuclear power
- Robert Pahle, Ph.D., Arizona State University, 2008, Assistant Research Professor — decision science, decision support systems, high-performance computing, geographic information science and systems
- Deirdre Pfeiffer, Ph.D., UCLA, 2011, Assistant Professor housing and community development, race and class stratification, participatory planning, qualitative methods
- David Pijawka, Ph.D., Clark University, 1983, Professor sustainable planning and design, socio-economic assessments, disaster management and recovery planning, perception and behavior studies, institutional design
- Sergio J. Rey, Ph.D., University of California, Santa Barbara, 1994, Professor — open source geocomputation, spatial econometrics, economic geography, regional science
- *Erinanne Saffell, Ph.D., Arizona State University, 2004, Lecturer* Hydroclimatology; systems of risk, vulnerability, resilience associated with extreme weather and climate events
- David J. Sailor, Ph.D. University of California, Berkeley, 1993, Professor — Urban Climate Dynamics: urban climate, energy consumption, thermal comfort, and renewable energy
- Deborah Salon, Ph.D. University of California, Davis, 2006, Assistant Professor — Transportation and residential location choices, urban economics, public transportation finance
- Mark W. Schmeeckle, Ph.D., Colorado, 1998, Associate Professor geomorphology, fluvial processes, earth surface transport and morphodynamics
- Nancy Selover, Ph.D., Arizona State, 2005, Research Professor and Arizona State Climatologist — urban climatology, evaporation, drought, micro-climate field research
- J. Duncan Shaeffer, Ph.D., Arizona State, 2001, Senior Lecturer world regional and cultural geography
- Emily Talen, Ph.D., University of California, Santa Barbara, 1995, Professor — urban form, sustainable cities, new urbanism
- B. L. Turner II, Ph.D., Wisconsin, Madison, 1974, Gilbert F. White Professor of Environment and Society — human-environment relationships, land change science, sustainability, tropical forests, ancient Maya
- Douglas Webster Ph.D., University of California, Berkeley, 1977, Professor — sustainable urbanization, city building in China, Southeast Asian urbanization, urban competitiveness/city development strategies
- Elizabeth A. Wentz, Ph.D., Pennsylvania State, 1997, Professor GIS, spatial analysis, environmental, urban remote sensing

ACADEMIC PROFESSIONALS:

- Gale Olp Ekiss, M.Ed., Arizona State University, 1982, Cocoordinator, Arizona Geographic Alliancer — geography education
- Ayan Mitra, M.S., Arizona State University, 2007, Assistant Research Professional — GIS applications and database development
- Barbara Trapido-Lurie, M.A., Hawaii, 1987, Senior Research Professional — cartography

AFFILIATED FACULTY:

Ambika P. Adhikari, Ph.D., Doctor of Design, Harvard University, 1990, Research Professor — Urban sustainability, international environmental policy, clean energy program development and deployment in developing countries, climate change policy and urban planning

- Bob Bolin, Ph.D., Colorado, 1976, Professor political ecology, environmental hazards and risk, contemporary social theory, social movements and change, urban sociology/geography
- Christopher Boone, Ph.D., Toronto, 1994, Professor urbanization, urban environments, urban sustainability, environmental justice
- Hallie C. Eakin, Ph.D., University of Arizona, 2002, Associate Professor — vulnerability, adaptation, global change, globalization, Latin America, Mexico, food systems, agrarian change
- Kevin Robert Gurney, Ph.D., Colorado State University, 2004, Associate Professor — Global Biogeochemistry, carbon cycle, carbon-climate feedbacks, fossil fuel CO₂ emissions, climate policy.
- Francisco Lara-Valencia, Ph.D., University of Michigan,2002, Associate Professor — Southwest borderlands development planning, economic development planning, urban health disparities, environmental vulnerability.
- V. Kerry Smith, Ph.D., Rutgers, 1970, W.P. Carey Professor environmental and resource economics
- Michael E. Smith, Ph.D., 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, Ph.D., Miami University, 1997, Professor Landscape ecology, urban ecology, and sustainability science

EMERITUS FACULTY:

- Frank T. Aldrich, Ph.D., Oregon State, 1972, Professor GIS, cartography/computer graphics, field methodology, remote sensing
- *Elizabeth K. Burns, Ph.D., UC Berkeley, 1974, Professor* urban, land use, transportation, urban and regional planning
- Anthony J. Brazel, Ph.D., Michigan, 1972, Professor physical, microclimatology, alpine climatology, applied meteorology
- Malcolm L. Comeaux, Ph.D., Louisiana State, 1969, Professor cultural, historical, history of geographic thought, Southwestern United States
- Hemalata C. Dandekar, Ph.D. UCLA, 1978, Professor Urban and Regional Planning
- Patricia L. Fall, Ph.D. University of Arizona, 1988 biogeography, human impact on ancient and modern environments
- William L. Graf, Ph.D., Wisconsin, 1974, Regents Professor fluvial, public land policy, arid lands
- W. Donald McTaggart, Ph.D., Australian National, 1963, Professor — underdeveloped nations, urban, Southeast Asia
- Robert C. Mings, Ph.D., Ohio State, 1966, Professor recreational, tourism, economic, social
- Guido G. Weigend, Ph.D., Chicago, 1949, Professor political, Europe, Soviet Union, Southern Africa
- Ruth A. Yabes, Ph.D., Cornell University, 1990, Professor Participation, community development, international planning, planning pedagogy

ADJUNCT FACULTY:

Ronald Holle, M.S., Florida State, 1966, Meteorological Consultant

- Sherwood B. Idso, Ph.D., Minnesota, 1967, U.S. Water Conservation Service Labs, USDA
- Robert Maddox, Ph.D., NWS Forecast Office
- Susan R. Sargent, PhD., City of Phoenix Planning Department, Arizona
- Mark R. Sinclair, Ph.D., US Naval Postgraduate School, 1985, Embry-Riddle Aeronautical University
- John Skindlov, Ph.D., Delaware, 1992, Salt River Project
- David Whitley, Ph.D., UCLA, 1982, W&S Consultants, Cultural Resource Management

NORTHERN ARIZONA UNIVERSITY

DEPARTMENT OF GEOGRAPHY, PLANNING, AND RECREATION

DATE FOUNDED: 1967

- **GRADUATE PROGRAM FOUNDED: 1990**
- DEGREES OFFERED: B.S Geographic Sciences and Community 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 6/1/11-1/31/14: 39 Geographic Science and Planning, 206 Recreation, 24 Masters, 28 Masters Certificates
- STUDENTS IN RESIDENCE: 65 Geographic Science and Planning, 215 Recreation, 35 Masters, 20 Masters Certificates
- **CHAIR: Mark Maciha**
- 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 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 community and commercial recreation, outdoor education and leadership, Park Protection, Tourism, and Individualized Studies. The Parks and Recreation Management degree program is also available over the Internet. The department also offers a specialist program, called the Park Ranger Training Program which is one of seven ranger training 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.

We now offer a B.S. - M.S. Integrated Program in Applied Geospatial Sciences for NAU undergraduate Students Majoring in B.S. Geographic Sciences and Community Planning and B.S. Parks and Recreation Management. The Integrated 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.

The M.S. Applied Geospatial Sciences degree plan is designed for students who want to pursue a career in understanding and managing land, community and environmental spatial systems, including geographic information systems (GIS), and remote sensing, and public planning and recreation. Both thesis and nonthesis plans are available. This nonthesis plan requires a professional applied paper that is overseen by your practicum committee. The Geospatial Technologies Emphasis (nonthesis) is a <u>Professional Science Master's (PSM)</u> degree. For more information on PSM degrees, visit the website of the <u>National Professional Science Master's Association</u>.

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 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, 2014, Lecturer human geography, developing world, climate change, cultural geography. (Jessica.Barnes@nau.edu).
- R. Dawn Hawley, Ph.D., Arizona State, 1994, Professor public land policy, economic geography, urban geography, GIS, U.S., Geographic Science & Community. (D.Hawley@nau.edu)
- Ruihong 'Ray' Huang, Ph.D., Wisconsin-Milwaukee, 2003, Associate Professor — GIS, spatial Statistics, urban transportation planning, land use planning, geomorphology
- Alan A. Lew, Ph.D., Oregon, 1986, AICP, Professor urban planning, tourism, East and Southeast Asia
- Mark Manone, M.A., Northern Arizona University, Associate Professor of Practice — GIS

- Brian Petersen, Ph.D. University of California Santa Cruz, 2010, Assistant Professor — Environmental Studies, Forest Resource Management, Sustainability, Climate Change and Society. (Brian.Petersen@nau.edu)
- Erik Schiefer, Ph.D., University of British Columbia, Canada, 2004, Assistant Professor, Graduate Program Coordinator — Physical Geography, GIS, and Geomorphology. (Erik.schiefer@nau.edu)
- Amanda Štan, Ph.D, University of British Columbia, Canada, 2008, Lecturer — Physical Geography, Weather and Climate, Global analysis. (<u>Amanda.stan@nau.edu</u>)
- Margo Wheeler, MURS, 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, Lecturer, Outdoor Leadership Program — Outdoor Leadership, NOLS.
- Mark Maciha, Ph.D., Northern Arizona University, 2014, Assistant Professor, Park Ranger Training Program Director — Park protection I and II, wildland recreation, natural resources protection. Department Chair (<u>Mark.Maciha@nau.edu</u>).
- Pamela Foti, Ph.D., Wisconsin, 1988, Professor wildland recreation and expeditions, outdoor recreation research and policy, impact analysis, park and recreation agencies
- Charles Hammersley, Ph.D., New Mexico, 1988, Professor, Parks and Recreation Management Program Coordinator — community and commercial recreation, outdoor leadership, event planning, recreation facility development and administration. (Charles.Hammersley@nau.edu)
- 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 — River rafting and outdoor education specialties
- John Lynch, MA, Northern Arizona University 2011, *Lecturer* Introduction to parks and recreation management, wilderness within, outdoor leadership I and II

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, GIS Programs Coordinator – computer cartography, geomorphology, climate, GIS, remote sensing, field techniques
- 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

ADJUNCT AND AFFILIATED FACULTY

- Patrick Chavez, Ph.D., USGS, Research Associate remote sensing, GIS
- Neil Gullickson, B.B.A., B.S. Northern Arizona, 1992, Associate Planner, City of Flagstaff; Instructor — physical planning, urban design, zoning, planning practice
- William Ring, J.D., Arizona, Instructor land use law, zoning and planning, regulatory approvals

Kim William Watson, B.S., Ohio State, Supervisory Park Ranger, National Park Service, Instructor — Land and Environmental Planning, Long Range Planning, Resource Protection, Visitor Management and Education

A new kind of science program at Northern Arizona University offers students a way to thrive in the growing global economy.

NAU's first Professional Science Master's degree-the master's in applied geospatial sciences-provides students a direct path to industry, government or non-profit careers. "Professional Science Master's degrees prepare students for work in a variety of cuttingedge fields and yield a highly marketable degree and competitive salary after only two years of postgraduate study." Professional Science Master's degrees supply advanced training in sciences, technology and mathematics while developing practical workplace skills such as business fundamentals and project management. These interdisciplinary degrees also may include training in intellectual property law, technology transfer, regulatory affairs, information technology, product marketing, leadership, entrepreneurship and communication The Professional Science Master's degree is a professional rather than a research degree. A master's degree in many natural science fields traditionally is a steppingstone to a doctorate rather than an end in itself. The master's in applied geospatial sciences has become the first degree program at NAU to be approved for affiliation as a PSM program by the Council of Graduate Schools. See http://nau.edu/SBS/GPR/Degrees-Programs/MS-Applied-Geospatial-Sciences/ for information on NAU's master's in applied geospatial sciences

PIMA COMMUNITY COLLEGE

PHYSICAL & GEOLOGICAL SCIENCES DEPARTMENT DEGREES OFFERED: A.A or A.S. for transfer to fouryear 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, M.A., 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., M.A., M.S., M.S.GIST, MDP, Ph.D. GRANTED 7/1/14-6/30/15: 53 BA/BS, 2 Masters, 7 Ph.D.,

5 GIST, 12 MDP STUDENTS IN RESIDENCE: 351 Undergraduate Majors, 11 Masters, 48 Ph.D. INTERIM DIRECTOR: Connie Woodhouse

ASSOCIATE DIRECTOR: Christopher Lukinbeal

FOR FURTHER INFORMATION: Visit the School's website at 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, Harvill Building, POB 210076, 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, 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 1.

FACULTY:

- 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, PhD., 2010, Assistant Professor 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
- 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 and Senior Vice President for Academic Affairs and Provost climate variability, synoptic climatology, climate applications in air quality, health, and environment
- Sandy Dall'Erba, Ph.D., University of Pau, 2004, Associate Professor — economic geography, growth, regional economic development policies, spatial econometrics
- Wayne Robert Decker, Ph.D., Johns Hopkins University 1979 ICT, science-technology innovation and social entrepreneurship as development strategies; universities as catalysts for development in Africa
- 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, Assistant Professor critical development studies, urban geography, cities of the Global South, feminist geography, cultural politics, social movements, ethnography, Mumbai
- 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
- Diana M. Liverman, Ph.D., UCLA, 1984, Regents Professor, Geography and Co-Director, UA Institute of the Environment 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, Assistant Professor and Director of MS in GIST — cultural geography, media and cinema, GIScience
- Sallie A. Marston, Ph.D., Colorado, 1986, Professor political, cultural, social theory and feminist geography
- Beth A. Mitchneck, Ph.D., Columbia, 1990, Professor migration, displacement, governance, Russia, Caucasus
- 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, Assistant Professor — social dimensions of climate change mitigation, agrarian studies, political ecology, Mexico, Latin America and the Caribbean.
- Iris Patten, Ph.D., University of Florida, Gainesville, 2014, Professor of Practice and Program Director, Online Masters of Science in Geographic Information Systems
- David A. Plane, Ph.D., Pennsylvania, 1981, Professor migration, population, transportation, and regional science
- Dereka Rushbrook, Ph.D., Arizona, 2005, Lecturer and Director of Undergraduate Studies — development, Latin America, social theory/social justice

- Christopher Scott, Ph.D., Cornell, 1998, Professor water management and policy, climate and water variability, urban water demand, water reuse, energy-water nexus, groundwater; Southwest U.S., Mexico, South Asia
- Daoqin Tong, Ph.D., Ohio State, 2007, Associate Professor location modeling, spatial optimization, GIS, transportation and remote sensing
- 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.
- Stephen R. Yool, Ph.D., UC-Santa Barbara, 1985, Professor physical geography, remote sensing, computer cartography, GIS

EMERITI FACULTY:

- D. Robert Altschul, Ph.D., Illinois
- Lay James Gibson, Ph.D., UCLA
- Janice J. Monk, Ph.D., Illinois
- Gordon Mulligan, Ph.D., British Columbia
- Leland R. Pederson, Ph.D., UC, Berkeley
- Richard W. Reeves, Ph.D., UCLA
- Thomas F. Saarinen, PhD., Chicago Marvin Waterstone, Ph.D., Rutgers

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 — andscape 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 Ph.D. 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

CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA

DEPARTMENT OF GEOGRAPHY AND ANTHROPOLOGY DATE FOUNDED: 1973 DEGREES OFFERED: B.S. GRANTED 9/1/13-8/31/14: 20 Bachelors MAJORS: 50 CHAIR: Lin Wu GEOGRAPHY PROGRAM COORDINATOR: Sara Garver 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: lwu@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 major option programs in geography in the department: Geographic Information Systems, Environmental Geography, and Geography. 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 quarter 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-Gomez, Ph.D., University of Florida, 2004, Associate Professor — Latin America, biogeography, human geography, geographic information systems, natural resource conservation
- Sara A. Garver. Ph.D., UC-Santa Barbara, 1997, Professor physical geography, cartography, geographic information systems, remote sensing & digital image processing, California
- 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

AD.JUNCT FACULTY:

- Richard S. Hyslop, J.D., Ph.D., UC Riverside, 1990, Professor emeritus/lecturer — legal, hazards, and emergency management, environmental law, California, US, Canada
- Nurudeen Alao, Ph.D., Northwestern University, 1970 cultural, physical, California
- Jennifer Bjerke, M.A., Rutgers, 2012 physical, cultural
- Richard R. Burkey, Ph.D., UC-Riverside, 1996 physical, cultural, California
- Matthew V. Ebiner, M.A., UCLA, 1986 cultural, physical, California, Latin America, Asia, Africa, Europe
- *Kyle Myrick, M.S., CSU Fullerton, 2014* physical, geographic information systems
- Conrad Nicoll, M.A., Cal State Fullerton, 2003 cultural, physical, California
- Jeanne Marshall, M.A., Cal State Fullerton, 1998 cultural, 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

GRADUATE PROGRAM FOUNDED: 1970

- DEGREES OFFERED: B.A. in Geography with options in Human Geography and Planning; and Physical and Environmental Geography; M.A. Environmental Policy and Planning
- CERTIFICATES OFFERED: Certificate in Geospatial Technology; Certificate in Resource Management & Land Use Planning
- MINORS OFFERED: Environmental Studies; Geography; Geospatial Literacy; Planning and Development
- DUAL DEGREES OFFERED: Geography and Economics; Geography and History GRANTED 9/1/13 - 8/31/14: 30 Bachelors, 8 Masters STUDENTS IN RESIDENCE: 70 Majors, 15 Masters CHAIR: Dean H.K. Fairbanks ADMINISTRATIVE ASST: Jessie Mendoza LAB TECHNICIAN: Cathie Benjamin

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/. For information on graduate studies, please contact the graduate advisor, Dr. Don Hankins, at dhankins@csuchico.edu.

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.

The 30-unit Master of Arts in Environmental Policy and Planning is intended to broaden the training of, and to prepare, qualified students for: (1) employment in public service and the private sector where an advanced degree is desirable, (2) community college teaching in geography and social science, and (3) advanced academic work preparatory to the doctorate at other institutions. 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 both the Master of Arts and the undergraduate options in planning.

The department offers comprehensive facilities and equipment for undergraduate and graduate study. These include an extensive collection of maps, imagery, and technical field equipment; a physical geography laboratory; a multi-purpose 30 seat GIS, cartography, remote sensing and statistical analysis computer laboratory; a multimedia outfitted group project geography lounge; multi-media graduate seminar room; access to University's 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 summer session. Applicants wishing to pursue a master's degree must have an acceptable baccalaureate degree with an undergraduate grade point average of at least 3.0 in the last sixty semester units and a grade point average of at least 3.0 in all post-baccalaureate graduate level coursework taken. Also required for admission are two letters of recommendation, writing samples, and Statement of Purpose.

A range of six scholarships and awards are available to undergraduate and graduate 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. Teaching assistantships are available for Graduate students on a competitive basis. Equal opportunity Affirmative Action students are particularly encouraged to apply.

FACULTY:

- Scott Brady, Ph.D., Louisiana State University, 1996, Professor cultural geography, geographic education, rural geography, Mexico & Central America
- Jacquelyn R. Chase, Ph.D., UCLA, 1993, Professor rural planning & development, urban-rural relations, urban geography, economic geography, Brazil
- Dean H.K. Fairbanks, Ph.D., University of Pretoria, South Africa, 2001, Professor — landscape ecology, biogeography, GIScience, socio-ecological systems, environmental planning, remote sensing
- Don L. Hankins, Ph.D., UC Davis, 2005, Professor fire ecology and management, water resources, restoration ecology and land stewardship, indigenous people's geography
- LaDona G. Knigge, Ph.D., SUNY-Buffalo, 2006, Associate Professor — urban geography, community planning, gender, qualitative research, critical GIS
- Paul Z. Melcon, Ph.D., University of Wisconsin-Madison, 1979, Associate Professor — physical geography, hazards, geomorphology, remote sensing
- 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, Associate Professor environmental studies, sustainability issues, environmental education, environmental history
- Xining Yang, Ph.D., Ohio State University, 2015, Assistant Professor — GIS, geovisualization/cartography, web-GIS, big data analytics, geography of food and health

ADJUNCT:

- Owen Bettis, M.A., CSU, Chico, 2012 physical geography, human geography, California geography, sustainability issues
- James Claflin, M.A., University of Texas, 1986 California geography, cultural geography
- Pam Figge, M.A., CSU, Chico, 1993 land use planning
- Steven Herman, M.A., University of North Carolina, 1982 geographic education, California geography, American West, sustainability issues
- Kamie Loeser, M.A., CSU Chico, 1997 land use planning, environmental impact, CEQA/NEPA
- Robert Pierce, M.A., CSU, Chico, 2003 physical geography
- Jeremy Miller, M.S., Antioch Univ., 1999 sustainability issues, 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

EMERITI:

Bruce E. Bechtol, Ph.D., Oregon, 1969, Professor 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 Louis Mihalyi, Ph.D., UCLA, 1964, 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 DATE FOUNDED: 1959 GRADUATE PROGRAM FOUNDED: 1967 DEGREES OFFERED: B.A., M.A. GRANTED 9/1/13-8/31/14: 28 Bachelors, 6 Masters STUDENTS IN RESIDENCE: 70 Majors, 21 Masters CHAIR: Mark H. Drayse DEPARTMENT ADMINISTRATIVE ASST: Kim Bette-Wright

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.

Well-equipped cartographic and geographic information systems laboratories plus a dedicated twenty five-station microcomputer lab support instruction and research activities. The Department also houses a new NASA-supported Remote Sensing Center. Internships and independent study opportunities are available.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Semester system. The department offers two undergraduate major options; each requires successful completion of 39 semester units. All students must complete a 15-unit geography core. The major requires breadth units in regional, physical, environmental, and human geography, and two 400-level senior seminars. Students may pursue a concentration in Environmental Analysis. Please contact the Office of Admissions and Records directly for application forms and university catalog.

GRADUATE: The M.A. program calls for completion of 30 semester units. Most students complete a thesis, although comprehensive written exams are also available. Each student must take seminars in geographic research and writing, human geography, and physical geography and must satisfy a requirement in advanced geotechniques. Graduate assistantships are available.

FACULTY:

- John C. Carroll, Ph.D., Oregon, 1995, Associate Professor environmental hazards, GIS, North America
- Dydia De Lyser, Ph.D., Syracuse, 1998, Assistant Professor cultural, historical, and feminist geography; qualitative methods
- Mark Drayse, Ph.D., UCLA, 1997, Professor and Chair regional economic development, natural resources, Africa, North America
- James Miller, Ph.D., Arizona State, 2007, Associate Professor climatology, quantitative methods
- 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

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1961

- DEGREES OFFERED: B.A., M.A., Masters of Science in GISci (MSGISci), Certificates in GIS and Urban Studies
- GRANTED 2013-14: 65 Bachelors, 4 Masters of Arts, 15 Masters of Science
- STUDENTS IN RESIDENCE: 145 Majors, 139 Minors, 35 Masters of Arts, 25 Masters of Science

CHAIR: Paul Laris

DEPARTMENT ADMINISTRATIVE SUPPORT COORDINATOR: Monique Lopez

FOR FURTHER INFORMATION, CONTACT: Paul Laris, Chair, Department of Geography, California State University, Long Beach, California 90840-1101. Telephone (562) 985-8432. Fax (562) 985-8993. E-mail: paul.laris@csulb.edu. Department web site: www.csulb.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES: The Department has four research/instruction emphases: geospatial techniques, environmental/physical geography, human geography, and global studies. The Department maintains four areas of teaching service to the campus community, including its contributions to a number of area studies, geographic education for K-12 teacher, general education, and extension programs. The Department offers B.A., and M.A. degrees in geography, an MS in Geographic Information Science, as well as a geographical information science certificate and an interdisciplinary urban studies certificate. In support of these programs, the Department maintains a 25 workstation instructional computing lab, a 15 station advanced computing lab, and a 5 station remote sensing lab with a full array of GIS, graphics, remote sensing image processing, qualitative and statistical software

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Application for graduate admission is made simultaneously to the Enrollment Services Office of the University (see www.csumentor.edu) and the Department. Official transcripts to the University only. The Geography MA requires three letters of reference, a statement of purpose, and GRE scores. The MSGISci requires two letters. Both require at least a 3.0 GPA in the last 60 semester units or 90 quarter units. The Department requires a TOEFL score of at least 550 (paper) or 213 (online) or an IELTS score of at least 6.0 for international students for whom English is not the primary language. Undergraduate admissions are made through the Enrollment Services Office. In addition to university-wide scholarships and grants and funded research activities, the Geography Department employs part-time student assistants and graduate assistants. The CSU system does not provide funding support for international students.

FACULTY:

- Hyowon Ban, Ph.D., OSU, 2009, Assistant Professor catrography, geovisualization, GIS, urban geography
- Suzanne Dallman, Ph.D., UCLA, 2001, Associate Professor and Undergraduate Advisor — watersheds, hydrology, physical/environmental geography, water resource policy
- Christine L. Jocoy, Ph.D., Penn State, 2004, Associate Professor economic and urban geography, homelessness, globalization, regional restructuring, learning theory in corporate decisionmaking
- Paul S. Laris, Ph.D., Clark, 2002, Professor and Chair cultural and political ecology, remote sensing, landscape ecology, global environmental change, Africa
- Christopher Tom Lee, Ph.D., Arizona, 1990, Professor remote sensing, GIS, hazards, arid lands, biogeography
- Linna Li, Ph.D, UCSB, 2010, Assistant Professor GIS, urban, spatio-temporal data mining
- Christine M. Rodrigue, Ph.D., Clark, 1987, Professor hazards, science and policy interactions, statistics, biogeography
- Dmitrii A. Sidorov, Ph.D. Minnesota, 1998, Associate Professor urban, cultural, political, historical, religion, Russia and the former USSR
- Deborah Thien, Ph.D., Edinburgh, 2005, Associate Professor and Graduate Advisor — feminist geography, mental health, geographies of emotion, remote communities, Canada, New Zealand, Scotland
- Suzanne P. Wechsler, Ph.D., SUNY Environmental Science and Forestry, 2000, Associate Professor — GISci, spatial analysis, non-point source pollution, hydrology. Director, MSGISci

ADJUNCT FACULTY:

Austin Beahm, M.A., CSULB Norman Carter, Ph.D., UCSB Tom D. Frazier, Ph.D., Humboldt-Universität zu Berlin Unna Lassiter, Ph.D., USC Michael McDaniel, JD/M.B.A, UCLA, M.A., CSULB David Pepper, Ph.D., USC Michael Shensky, M.A., CSU Fullerton Angela Wranic, M.S., CSU Fullerton

EMERITI:

Molly Debysingh, Ph.D. Jim Curtis, Ph.D. Franklin Gossette, Ph.D. Edward Karabenick, Ph.D. John C. Kimura, Ph.D. Richard Outwater, Ph.D. Joel B. Splansky, Ph.D. Judith A. Tyner, Ph.D. Jean D. Wheeler, Ph.D.

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1960 GRADUATE PROGRAM FOUNDED: 1960 DEGREES OFFERED: B.A., M.A. GRANTED 2013-2014: 32 Bachelors, 28 Masters STUDENTS IN RESIDENCE: 98 Majors, 72 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: www.csun.edu/social-behavioral-sciences/geography

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. 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, PhD., Univ. of Florida, 2011 Assistant Professor — Human-environment geography, remote sensing & GIS, protected areas, South Asia
- Soheil Boroushaki, Ph.D., UWO, 2010 Assistant Professor GIS Multi-criteria decision analysis, location theory and analysis, spatial decision support systems
- Helen M. Cox, Ph.D., UCIA, 1998, Professor meteorology, climatology, remote sensing
- James W. Craine, Ph.D., SDSU, 2006, Associate Professor media geography, cultural geography, geo-visualization
- Shawna J. Dark, Ph.D., UCLA, 2003, Professor GIS, applied biogeography, environmental
- Ronald A. Davidson, Ph.D., UCLA, 2003, Associate Professor public space, teacher education, narrative and geography, regional geography
- Mario Giraldo, Ph.D. Georgia 2007, Assistant Professor Sustainability, biogeography, GIS, remote sensing applications, mountain agriculture, water resources
- 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. Laity, Ph.D., UCLA, 1982, Professor climatology, geomorphology
- Regan M. Maas Ph.D., UCLA, 2010, Assistant 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. Vicero, Ph.D., Wisconsin, 1968, Professor historical Anglo-America
- I-Show Wang, Ph.D., Minnesota, 1971, Professor population, East Asia

CALIFORNIA STATE UNIVERSITY, SACRAMENTO

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1954 DEGREE OFFERED: B.A. GRANTED 8/22/14-5/30/15: 50 Bachelors MAJORS: 100 CHAIR: Michael Schmandt DEPARTMENT ADMINISTRATIVE SUPPORT COORDINATOR: Crystal Little

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: schmandt@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 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
- 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. Schmidtlein, 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, 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: 9/1/13-6/20/14: Geography: 9 Bachelors; Global Studies: 1 Bachelor; Environmental Studies: 19 Bachelors

MAJORS: Geography: 32 Environmental Studies: 75 CHAIR: Norman Meek

DEPARTMENT ADMINISTRATIVE SUPPORT COORDINATOR: Patricia Massei

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Professor Norman Meek, 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: pmassei@csusb.edu or nmeek@csusb.edu Internet: 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:

- Andrew Bodman, Ph.D., The Ohio State University, 1978, Provost and Vice President for Academic Affairs — economic geography
- Brett Goforth, Ph.D., UC, Riverside, 2009, Assistant Professor -biogeography, weather & climate, map interpretation
- Kevin Grisham, Ph.D., UC, Riverside, 2009, Assistant 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
- Jenny Zorn, PhD, Ohio State, 1990, Professor and Associate Provost — population, urban, gender, and geographic education

EMERITI FACULTY:

- 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: 51 Geography MINORS: 12 Geography DEGREES GRANTED: 21 BA DEPARTMENT CHAIR: Sari Miller-Antonio PROGRAM DIRECTOR: Jennifer Helzer ADMINISTRATIVE COOR: Susan Helm-Lauber

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, California State University, Stanislaus, One University Circle, Turlock, California 95382. Telephone (209) 667-3127. Fax (209) 667-3324 E-mail: JHelzer@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 permaculture). 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 Fluvial Geomorphology, GIS, Remote Mexico, West Africa
- Peggy Hauselt, Ph.D., UC Davis, 2007, Assistant Professor Environmental, Agricultural, Biogeography, GIS
- Jennifer Helzer, Ph.D., Univ of Texas, Austin, 1998, Professor Cultural, Historical, Urban, North America, Europe, California
- Alison McNally, Ph.D., UC Davis, 2014 Assistant Professor Environmental, Agricultural, Biogeography, GIS

ADJUNCT FACULTY:

- Richard Eigenheer, Ph.D., UC Davis, 1976 Historical, Cultural, US/Canada, California
- Chuck Bowen, M.A., Univ of Georgia, 1967 Weather & Climatology, Environmental Science, Latin America

EMERITI FACULTY:

Melvin H. Aamodt, Ph.D., Indiana U, 1968 Ida Bowers, Ph.D., Univ of Hawaii, 1973 Eric Karlstrom, Ph.D., Calgary, 1981

Leon S. Pitman, Ph.D., Louisiana State U, 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 GRANTED (8/15/13 to 05/30/14): 3 A.S. Degrees, 1 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

LONG BEACH CITY COLLEGE

DEGREES OFFERED: Associate in Arts in Geography for Transfer Degree (AA-T)

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Physical Science Department 4901 E. Carson St. Long Beach, CA 90808. Telephone: (562) 938-4168

COURSES OFFERED: Physical Geography, Physical Geography Lab, Cultural Geography, World Regional Geography, Introduction to Geographic Information Systems, Weather and Climate, Field Methods in Geography, The Global Economy, Geography of California.

PROGRAMS AND RESEARCH FACILITIES: The Associate in Arts in Geography for Transfer Degree (AA-T) is intended for students who plan to complete a bachelor's degree in geography at a California State University (CSU) campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus. In order to earn this degree, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a

CSU campus that does accept the AA-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

FACULTY:

- J. Chris Carter, Professor of Geography. Ph.D., University of California Santa Barbara/San Diego State University. ccarter@lbcc.edu
- Kim Hatch, Associate Professor, Physical Science, M.A, California State University, Long Beach. khatch@lbcc.edu
- Ray Summer, Professor of Geography. Ph.D., University of Queensland.rsummer@lbcc.edu

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/academicprograms/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, M.A., San Diego State University, 2000, Adjunct Faculty
- Jonathan Rossiter, M.A., San Diego State University, 2010, Adjunct Faculty

SAN DIEGO STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1914

GRADUATE PROGRAM FOUNDED: 1956

- GRANTED 05/31/09-05/31/10: 56 Bachelors, 9 Masters, 5 Ph.D.
- STUDENTS IN RESIDENCE: 150 Majors, 26 Masters, 26 Ph.D.

CHAIR: Piotr Jankowski

DEPARTMENT COORDINATOR: Patricia O'Leary

FOR FURTHER INFORMATION WRITE TO: Diana Richardson, Undergraduate Advisor, Allison Bailund, Graduate Program Coordinator, Dr. Allen Hope, 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, and (d) Methods of Geographic Analysis. 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, Definiens 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 quantitate 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:

- Edward Aguado, Ph.D., Wisconsin, 1983, Professor climatology, meteorology, physical
- 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
- Kathleen A. Farley, Ph.D., Colorado, 2002, Associate Professor environmental science and policy, land use change, ecosystem processes and services, physical geography
- Allen S. Hope, Ph.D., Maryland, 1986, Professor remote sensing, hydrology, climatology
- Piotr Jankowski, Ph.D., Washington, 1989, Professor & Chair GIScience, spatial decision support systems, participatory planning and Web 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
- 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, PhD., U. of Toronto, 2005, Associate Professor youth identities and childhood, labor migration, indigenous peoples, urban, Latin America
- Ming-Hsiang Tsou, Colorado, 2001, Professor GIScience, Internetbased GIS applications, distributed computing, intelligent agents, user interface design

EMERITI FACULTY:

Barbara E. Fredrich, Ph.D., UCLA, 1975
Arthur Getis, Ph.D., Washington, 1961
Ernst C. Griffin, Ph.D., Michigan State, 1972
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., M.A., M.S. GRANTED 9/1/13-8/31/14: 58 Bachelors, 13 Masters STUDENTS IN RESIDENCE: 121 Majors, 45 Masters NOT IN RESIDENCE: 15 Masters CHAIR: Jerry Davis DEPARTMENT OFFICE COORDINATOR: Erica Thomas

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. Email: 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:

- 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, 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
- Barbara A. Holzman, Ph.D., UC Berkeley, 1993, Professor biogeography, resource management, environmental studies, vegetation change
- 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
- 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 DATE FOUNDED: 1968 DEGREES OFFERED: B.A. GRANTED: 1/1/14-12/31/14, 21 Bachelors MAJORS: 41 CHAIR: Matthew Clark DEPARTMENT ADMINISTRATIVE COORDINATOR: Jill Martin

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Sonoma State, Department of Geography, 1801 E. Cotati Ave., Rohnert Park, California 94928. Telephone (707) 664-3211. Fax (707) 664-3332. E-mail: jill.martin@sonoma.edu. Internet: www.sonoma.edu/geoglobal

PROGRAMS AND RESEARCH FACILITIES: Our department is dedicated to providing majors with a broad undergraduate background in geography, including cultural, physical and geospatial techniques courses. Students may choose a concentration in Environment and Society, Globalization and Identity, The Biophysical Environment or Geospatial Techniques if they desire, or they may pursue a general course of study. Our campus and most of our classes are small, providing 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, biogeography, conservation science, geopolitics and political ecology. We conduct research and field classes locally, as well as in Latin America and Madagascar. We possess a wellequipped GIS lab and have GPS receivers and other equipment for field work. We also house two centers: the Center for Interdisciplinary Geospatial Analysis (CIGA), which conducts research, education and community service with the application of geospatial technology; and 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.

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:

- Jeffrey Baldwin, PhD, Oregon, 2003, Associate Professor Humanenvironment, globalizing economies, Latin American and the Caribbean
- Matthew L. Clark, Ph.D., UC Santa Barbara, 2005, Associate Professor — remote sensing, GIS, biogeography, ecosystem analysis and conservation, Latin America
- William K. Crowley, Ph.D., Oregon, 1972, Professor emeritus wine, urban and cultural, Latin America
- Dorothy Freidel, Ph.D., Oregon, 1993, Professor emeritus geomorphology, climatology, climate change, geoarchaeology; Mesoamerica, United States
- Michelle Goman, Ph.D., U.C. Berkeley, 1996, Associate Professor biogeography, paleoecology and paleoclimatology, geomorphology; Mesoamerica, United States, East Africa
- Rheyna Laney, Ph.D., Clark University, 1999, Professor resources, agriculture, world regions, remote sensing, Africa

UNIVERSITY OF CALIFORNIA, BERKELEY

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1898 GRADUATE PROGRAM FOUNDED: 1908 DEGREES OFFERED: A.B., Ph.D. GRANTED 9/1/12-8/31/13: 59 Bachelors, 15 Ph.D. STUDENTS IN RESIDENCE: 110 Majors, 50 Ph.D. NOT IN RESIDENCE: 5 Ph.D. CHAIR: Nathan F. Sayre DEPARTMENT MANAGER: Josh Mandel

FOR INFORMATION AND ADMISSIONS: For general information, contact Deborah Gray. Telephone (510) 642-3903. E-mail: debgray@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, 507 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 Central America. 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, paleoenvironments, 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, Energy and Resources Group, Earth and Planetary Science, Biological Sciences, Departments of Anthropology, Sociology, Economics, 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 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 Development 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, 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:

- Roger Byrne, Ph.D., Wisconsin, 1972, Associate Professor historical biogeography, vegetation history, pollen analysis, prehistoric agriculture
- Jeffrey Q. Chambers, Ph.D., UC Santa Barbara, Associate Professor — terrestrial ecosystem ecology and biogeography, tropical forests and climate change interactions, landscape dynamics and remote sensing
- John C.H. Chiang, Ph.D., Columbia University, 2001, Associate 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
- Gillian P. Hart, Ph.D., Cornell, 1978, Professor development studies, rural and regional development, labor markets and employment, gender studies
- 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
- Michael Johns, Ph.D., Johns Hopkins, 1990, Professor the culture of cities, cities of the Americas, Latin America
- Jake Kosek, Ph.D., UC Berkeley, 2002, Assistant Professor cultural politics of nature and difference, science and technology studies, critical race theory, ethics, biopolitics, human and the nonhuman environmental politics
- Laurel G. Larsen, Ph.D., University of Colorado, 2008, Assistant 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.
- Beatriz Manz, Ph.D., SUNY Buffalo, 1977, Professor Central and Latin America, human and political geography, population migration
- 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 — terrestrialatmosphere exchange of trace gases, atmospheric chemistry and composition, halogen biogeochemistry, stratospheric ozone depletion issues

- Nathan F. Sayre, Ph.D., Chicago, 1999, Associate 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
- Michael J. Watts, Ph.D., Michigan, 1979, Professor Third World economic development, Africa, peasant economy, political economy, U.S. agriculture, Islam

ADJUNCT FACULTY:

- Norman L. Miller, Ph.D., Wisconsin, 1987 regional climate and hydrology, climate change impacts
- David Wahl, Ph.D., UC Berkeley, 2005 Central America, Western US, Pacific Islands

AFFILIATED FACULTY:

- William Dietrich, Ph.D., University of Washington, 1982, Professor of Earth and Planetary Science — hillslope and fluvial geomorphology
- Louise Fortmann, Ph.D., Cornell, 1973, Professor of Environmental Science, Policy and Management — property, poverty, gender, community natural resource management, U.S. and southern Africa
- Peng Gong, Ph.D., University of Waterloo, 1990, Professor of Environmental Science, Policy, and Management — remote sensing image processing, analysis and applications, GIS theory, techniques and application
- B. Lynn Ingram, Ph.D, Stanford, 1992, Professor of Earth and Planetary Science — paleoclimatology, paleoenvironmental reconstruction, isotope geochemistry, paleoceanography and marine stratigraphy
- Patrick V. Kirch, Ph.D., Yale, 1975, Professor of Anthropology prehistory and ethnography of Oceania, ethnoarchaeology and settlement archaeology, prehistoric agricultural systems, cultural ecology and paleoenvironmentalism, ethnobotany and ethnoscience, development of complex societies in Oceania
- G. Mathais Kondolf, Ph.D., Johns Hopkins, 1988, Professor of Environmental Planning — applied geomorphology and hydrology, environmental planning
- John D. Radke, Ph.D., British Columbia, 1983, Associate Professor of Landscape Architecture and Environmental Planning — GIS, spatial systems for regional environmental planning, metrics for landscape characterization, spatial interaction models

EMERITI FACULTY:

Orman Granger, Ph.D., Toronto, 1974 Paul Groth, Ph.D., UC Berkeley, 1983 Peter Hall, Ph.D., Cambridge, 1959 Theodore M. Oberlander, Ph.D., Syracuse, 1963 Robert R. Reed, Ph.D., UC, Berkeley, 1972 David R. Stoddart, Ph.D., Cambridge, 1964 Richard A. Walker, Ph.D., Johns Hopkins, 1977

UNIVERSITY OF CALIFORNIA, DAVIS

GRADUATE GROUP IN GEOGRAPHY DATE FOUNDED: 1955 REORGANIZED AS GRADUATE GROUP: 1994 DEGREES OFFERED: M.A., PhD. GRANTED 7/1/13-6/30/14: 4 Masters, 10 Ph.D. STUDENTS IN RESIDENCE: 57 NOT IN RESIDENCE: 5 CHAIR: Robert Hijmans PROGRAM COORDINATOR: Carrie Armstrong-Ruport GRADUATE ADVISORS: Ryan Galt; Robert Hijmans and 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. Email: 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 January 2nd 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:

- *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-Centra-South America, Australia
- *Tom Beamish* social and organizational response to environmental change and disaster
- Chris C. Benner urban and economic geography, social implications of information technology, labor markets and restructuring of work, social movements and innovative labor/community organizing, regional development and social equity
- 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
- 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, potitical economy, Middle East and North Africa, pastoral societies and arid lands
- 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
- Robert Hijmans ecological modeling, geo informatics, agricultural geography, biodiversity conservation, climate change
- Frank Hirtz law & development, development planning, social policy & welfare, Southern Africa, Southeast Asia
- Richard Howitt (Emeritus) Resource Economics, Environmental Economics, Quantitative Methods, Econometrics, Operations Research
- 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
- 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 environmental policy, community planning, land use planning, North America
- Mark Lubell environmental policy; community-based management; social networks, human cooperation; quantitative analysis
- 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-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
- Jeffrey Mount (Emeritus) fluvial geomorphology
- Peter Moyle 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
- Richard Plant (Emeritus) geographic information systems (GIS), China, Europe, North America
- James Quinn conservation biology, Gap Analysis, GIS
- Noha Radwan Arabic and comparative literature
- Michael Rios political geography, urban design, community development
- Lynn Roller Classical landscapes and biophysical environment; Eastern Mediterranean
- Margaret Rucker 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
- 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
- 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
- *Joshua H. Viers* geographic information systems (GIS), landscape ecology, remote sensing
- 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 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 7/1/13-6/30/14: 166 Bachelors, 6 Masters, 8 Ph.D.
- STUDENTS IN RESIDENCE: 378 Majors, 229 Minors, 73 Graduate Students

CHAIR: Laurence C. Smith

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, 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 2016 is December 15, 2015. 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 (TOEFEL) 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 <u>www.geog.ucla.edu</u>.

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 Bell, Ph.D., Toronto, 1991, Associate 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 Cavanaugh, Ph.D, UC Santa Barbara, 2011, Assistant Professor – coastal ecology, biogeography, spatial ecology, and remote sensing
- Daniela Cusack, Ph.D., UC, Berkeley, 2009, Assistant Professor biogeography, tropical ecosystems and soils
- Lisa Kim Davis, Ph.D., Johns Hopkins, 2005, Assistant Professor human and urban geography, Korean studies
- 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 Goodwin-White, PhD., University of Washington, 2005, Assistant Professor — population geography
- Helga Leitner, PhD., 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, hydrologyclimate interactions, and hydrologic change
- Glen M. MacDonald, Ph.D., Toronto, 1984, Professor and The John Muir Memorial Chair — biogeography, paleoecology, paleoclimatology, fossil pollen and tree ring analysis, ecology and environmentalism
- Adam Moore, PhD., Wisconsin-Madison, 2010, Assistant Professor political geography
- Gregory S. Okin, Ph.D., California Institute of Technology, 2001, Professor — physical geography and soils, geomorphology and remote sensing
- 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, Associate Professor physical geography, GIS, remote sensing, photogrammetry and global change
- Eric Sheppard, PhD., 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 Edward W. Soja, UCLA Planning Michael Storper, UCLA Planning

EMERITI FACULTY:

Charles F. Bennett, Ph.D. William A.V. Clark, Ph.D. Michael R. Curry, Ph.D Gary S. Dunbar, 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. Benjamin E. Thomas, 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: B.A., B.A. with GIS Emphasis, B.S. in Physical Geography, Minor in Spatial Studies, M.A., Ph.D.

STUDENTS IN RESIDENCE: 150 Undergraduate Majors, 70 Graduate Students. CHAIR: Dan Montello

FOR CATALOG AND FURTHER INFORMATION, CONTACT: Graduate Program Advisor: Department of Geography, University of California Santa Barbara, Santa Barbara, CA 93106-4060. Telephone: (805) 456-2829; Fax: (805) 893-2578; e-mail: geoggrad_assistant@ucsb.edu; Internet: www.geog.ucsb.edu_

PROGRAMS AND RESEARCH FACILITIES: The Geography Department at UCSB offers specialized graduate training leading toward the Masters and Ph.D. degrees. Areas of concentration include:

EARTH SYSTEM SCIENCE (ESS): This systematic area emphasizes the measurements, analysis, and modeling of hydrologic, atmospheric, oceanic, and terrestrial systems and the interactions between systems. A large proportion of the problems addressed by researchers in ESS involve three common elements: large regional issues; mathematical and computational modeling; and large, spatially indexed datasets.

HUMAN GEOGRAPHY (HG): This systematic area covers the major components of Human Geography offered by the Department, including: human spatial behavior and cognition; spatial decisionmaking and decision support; urban and regional modeling, planning, and policy; human movement and transportation systems; resource and environmental management; population; human response to the changing environment; health geography.

MODELING, MEASUREMENT, AND COMPUTATION (MMC): This area is the investigation of sets of techniques from the areas of analysis, statistics, and computation that are particularly well-suited to the modeling of the complex, geographic phenomena that are the subject of investigation in both ESS and HG. Important sub-areas include numerical modeling, spatial and temporal statistics, remote sensing, computational modeling and database systems (including geographic information systems), and cartography and visualization, all of which are increasingly dependent on knowledge of computational theory and practice.

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 faculty are notably active as authors of books and peer reviewed articles, as members of editorial boards, and as reviewers of manuscripts for professional journals. This professional activity keeps the UCSB Geography faculty at the leading edge of our discipline; indeed, two of our faculty are members of the National Academy of Science, one is a Fellow of the Royal Academy, and one received the Prix Vautrin Lud, Geography is also the headquarters of the UCSB Center for Spatial Studies (spatial@ucsb) and has a strong association with the UCSB Earth Research Institute.

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). 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
- 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
- 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 — 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 — Atmosphere-ocean interactions and upper ocean mixing, turbulence and internal waves, bio-optics, biogeochemistry, and biological-physical interactions
- 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, Assistant 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, Associate Professor — Biogeochemistry, earth system science, global change, ecosystem ecology, plant-soilatmosphere 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
- Phaedon Kyriakidis, PhD, Geological and Environmental Sciences, Stanford University, Professor — Geostatistics and spatial analysis, spatiotemporal random fields
- 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
- 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 — Individual and aggregate decision making and the application of methods of artificial intelligence models to such problems
- Stuart Sweeney, PhD, City and Regional Planning, University of North Carolina, Chapel Hill, Associate Professor — Urban and regional modeling and planning, human migration, local economic development/policy, and spatial point process models of economic activity
- Waldo Tobler, PhD, Geography, University of Washington, Seattle, Professor Emeritus — Cartography, computational geography
- 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; Minor, Spatial Studies; M.S., Geographic Information Science and Technology (online); M.S., Spatial Informatics; Graduate Certificate, Geographic Information Science and Technology (online); Graduate Certificate, Geospatial Intelligence (online); Graduate Certificate, Geospatial Leadership (online); Graduate Certificate, Spatial Analytics (online); Ph.D., Population, Health and Place
- GRANTED 9/1/2013-08/31/14: 36 M.S. (GIST), 33 Graduate Certificates (GIST), 4 Ph.D. (Geography)
- STUDENTS IN RESIDENCE: 19 B.S. (GeoDesign), 11 Minor (Spatial Studies), 0 Ph.D. (Geography)
- STUDENTS NOT IN RESIDENCE: 169 M.S., 60 Graduate Certificate, Geographic Information Science and Technology, 1 Graduate Certificate, Geospatial Intelligence

DIRECTOR: John P. Wilson

- ASSOCIATE DIRECTOR: Susan Kamei
- INSTITUTE ADMINISTRATIVE COORD: Melissa Salido

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, and dedicated spaces for graduate and undergraduate student researchers. The Institute boasts an impressive array of computing technologies dedicated to research and education. The 200+ students in our online programs are provided with state-of-the-art geographic information technologies via dedicated virtual desktops and servers and residential students can
access the 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 industrystandard GIS applications from Esri and GPS applications from Trimble, specialty software like the Idrisi Taiga GIS and Image Processing software, the latest in virtualization technologies from Citrix, 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 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 and minor in Spatial Studies.

GRADUATE: An online M.S. degree is offered for students specializing in Geographic Information Science & Technology 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 M.S. degree and three aforementioned Graduate Certificate programs all three semesters.

FACULTY:

- Yao-Yi Chiang, Ph.D., University of Southern California, 2010, Assistant Professor (Research) — geospatial data integration, digital map processing, graphics recognition, pattern recognition, image processing
- Jordan T. Hastings, Ph.D., University of California Santa Barbara, 2009, Assistant Professor of the Practice of Spatial Sciences databases, GIS, cartography, visualization, gazetteers, geologic maps
- 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, Associate Professor (Research) — bioresource management, conservation planning, ecological light pollution, endangered species
- Katsuhiko (Kirk) Oda, Ph.D., Texas A&M University, 2011, Lecturer — spatial thinking, GIS education, GIS, walkability, spatial cognition
- Tarek Rashed, Ph.D., University of California Santa Barbara and San Diego State University, 2002, Lecturer — urban remote sensing, spatial decision support systems, disaster simulation, urban planning
- Darren Ruddell, Ph.D., Arizona State University, 2009, Assistant Professor (Teaching) and Director of Undergraduate Studies geospatial technologies, climate and society, humanenvironment interactions, geodesign, urban sustainability

- Elisabeth Sedano, Ph.D., University of Southern California, 2014, Lecturer — urban geography, web mapping, volunteered geographic information, outdoor advertising
- Jennifer Swift, Ph.D., Bogazici University Istanbul, 1995, Associate Professor (Teaching) and Director of Graduate Studies — GIS, web GIS, mobile GIS, data modeling, geodesign, online education
- Daniel N. Warshawsky, Ph.D., University of Southern California, Lecturer — geography, urban studies, food studies, African studies, international development, nonprofit studies
- 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
- Robert O. Vos, Ph.D., University of Southern California, 1999, Adjunct Assistant Professor of the Practice of Spatial Sciences — industrial ecology, GIS assessment of carbon footprinting, environmental politics and policy

AFFILIATED FACULTY:

- Jennifer Ailshire, Ph.D., University of Michigan, 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, Associate 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
- 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
- Thomas Garrison, Ph.D., Harvard University, 2007, Assistant Professor (Department of Anthropology) — GIS, remote sensing, Maya and Mesoamerican archaeology, landscape archaeology
- Jennifer Hook, Ph.D., University of Washington, 2006, Associate Professor (Sociology) — family demography, gender, inequality, work-family, social policy, child welfare, comparative sociology
- Craig A. Knoblock, Ph.D., Carnegie Mellon University, 1991, Professor (Research) (Computer Science) and Director of Information Integration, Information Sciences Institute — data extraction from the Web, information gathering, artificial intelligence

- Ann Owens, Ph.D., Harvard University, 2012, Assistant Professor (Department of Sociology) — spatial analysis, quantitative analysis, urban sociology, social stratification, social policy
- Nathan Perl-Rosenthal, Ph.D., Columbia University, 2011, Assistant 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
- Kelly Shannon, Ph.D., Katholieke Universiteit Leuven, Director (Master of Landscape Architecture Program) — interpretive mapping, projective cartography, urbanism, landscape

COLORADO

UNIVERSITY OF COLORADO, BOULDER

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1927 GRADUATE PROGRAM FOUNDED: 1930 DEGREES OFFERED: B.A., M.A., Ph.D. GRANTED 12/2014-05/2015: 88 Bachelors (UC Boulder only), 6 Masters, 11 Ph.D. STUDENTS IN RESIDENCE: 150 Majors, 18 Masters, 59 Ph.D. NOT IN RESIDENCE: 6 Ph. D.

CHAIR: Emily Yeh

DEPARTMENT ADMINISTRATIVE ASST: Darla Shatto

FOR CATALOG AND UNDERGRADUATE APPLICATION WRITE TO: Admissions Office, Attn: Catalog Order, Campus Box 7, University of Colorado, Boulder, Colorado 80309 (enclose \$10.00 check or money order for catalog). Financial Aid Office, Campus Box 106, University of Colorado Boulder, Colorado 80309.

For undergraduate and graduate program brochures graduate application write to: Department of Geography, Campus Box 260, University of Colorado, Boulder, Colorado 80309-0260. Telephone (303) 492-2631 (Undergraduate); (303) 492-8311 (Graduate). Fax (303) 492-7501. Internet: www.colorado.EDU/geography/.

PROGRAMS AND RESEARCH FACILITIES: Faculty members based on the University's campuses in Boulder, and Denver jointly form the Geography Graduate Faculty. The basic purpose of the program is the training of scholars who will continue to produce knowledge and of 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 both physical and human geography. Research strengths are in arctic and alpine processes, snow and ice studies, geomorphology, climatology, biogeography, sustainable development, conservation, natural resources, cultural, social, urban, population, political, cartography, geographic information science, and geographic education. 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 Institutes of Behavioral Science (IBS) and 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.

At Boulder, a department Internship Program is available for junior and senior students in Geography. UC-Colorado Springs and UC-Denver have separate geography major programs; contact those departments directly at the addresses given in the following faculty lists.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Semester plan. Write above addresses for information on admissions and financial aid.

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. Applicants without a degree in geography may be required to make up deficiencies. 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 January 15.

- Waleed Abdalati, Ph.D. University of Colorado, 1996, Professor and Faculty Director of CIRES — glaciers, ice caps, ice sheets of the world
- Suzanne P. Anderson, Ph.D. UC-Berkeley, 1995, Associate Professor — geomorphology, hydrology
- Holly R. Barnard, Ph.D., Oregon State University, 2009, Assistant Professor — forest engineering and forest science
- Jennifer Balch, Ph.D, Yale, 2008, Assistant Professor Biogeography, Forest Geography, Fire, The Amazon
- Peter D. Blanken, Ph.D., 1997, University of British Columbia, Associate Professor — micrometeorology, energy/ water/carbon exchange, forest meteorology, Arctic and subarctic, climatology
- Joseph H. Bryan, Ph.D. UC Berkeley, 2007, Assistant Professor development and indigenous issues in the Americas
- Barbara P. Buttenfield, Ph.D., Washington, 1984, Professor geographic information science, analytical cartography, information design
- Carson Farmer, Ph.D. National University of Ireland, Maynooth, 2011, Assistant professor – GIScience, and spatial analysis with focus on spatial interactions, geospatial data streams, and spatial-temporal dynamics
- Jennifer Fluri, Ph.D. Pennsylvania State, 2005, Associate Professor — Gender, Development, India
- Mara Goldman, Ph.D. University of Wisconsin, 2006, Assistant Professor — human-environment relations, sub-Saharan Africa
- Najeeb Jan, Ph.D. 2009 University of Michigan, Assistant Professor — West Asia, political, Islam
- Stefan Leyk, Ph.D., University of Zurich, 2005, Associate Professor GIS, pattern recognition, land cover change

- Noah P. Molotch, Ph.D., University of Arizona, Tucson, 2004, Associate Professor - surface water and snow hydrology, ecohydrology, earth system science
- Timothy Oakes, Ph.D., University of Washington, 1995, Professor cultural, tourism, China
- John V. O'Loughlin, Ph.D., Pennsylvania State, 1973, Professor urban, political, Europe, international relations
- John Pitlick, Ph.D., Colorado State, 1988, Professor fluvial geomorphology, hydrology
- William E. Riebsame Travis, Ph.D., Clark, 1981, Associate Professor - natural resources management, environment and society
- Fernando Riosmena, Ph.D., University of Pennsylvania, 2005, Associate Professor - Migration, Demography, Mexico
- Mark Serreze, Ph.D. University of Colorado, Boulder, 1989, Professor and Director of the NSIDC - cryosphere variability and climate change
- Seth Spielman, Ph.D. SUNY Buffalo, 2008, Assistant Professor urban, GIScience and Public Health
- Thomas T. Veblen, Ph.D., UC, Berkeley, 1975, Professor biogeography, environmental conservation, Latin America
- Mark W. Williams, Ph.D., UC-Santa Barbara, 1990, Professor snow chemistry, alpine biogeo-chemistry, hydrology
- Emily Yeh, Ph.D., UC-Berkeley, 2003, Professor political ecology of land use and resource conflicts in Tibeten areas of China, environmental politics of global change

ASSOCIATED FACULTY:

Max Boykoff, Adjunct Assistant Professor, CIRES

Jani Little, Adjunct Professor, IBS

Brian O'Neill, Adjunct Assistant Professor, NCAR

Bruce Van Haveren, Adjunct Prfoessor

Willem van Vliet, Contributing Member, College of Architecture and Planning

Tania Schoennagel. Adjunct-Assistant Professor-INSTAAR

EMERITI FACULTY:

Roger G. Barry - climatology (mountain and polar regions, synoptic, climate change), snow and ice

Nelson Caine - hydrology, geomorphology

Susan W. Beatty - plant ecology, biogeography, soils, disturbance effects on landscape

Kenneth A. Erickson – cultural, cartography, Russia, conservation Kenneth E. Foote – American and European landscape history, computer techniques and Internet applications, learning and teaching geography in higher education

Andrei Rogers — population, migration Konrad Steffen — remote sensing, climatology; Director, Cryospheric and Polar Processes Division, Cooperative Inst. for Research in Environmental Sciences

Richard E. Stevens - agricultural, Africa, cartography, air photo

UNIVERSITY OF COLORADO, COLORADO SPRINGS

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL STUDIES

DATE FOUNDED: 1973

DEGREES OFFERED: B.A., M.A. in Applied Geography GRANTED 8/20/2013-5/20/2014: 66 Bachelors; 4 M.A. STUDENTS IN RESIDENCE: 242 Majors; 17 M.A. **CHAIR: John Harner**

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: jharner@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 option 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 an exit exam 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 Emily Skop, Graduate Director at (719) 255-3789 or eskop@uccs.edu.

- Somayeh Dodge, Ph.D., University of Zurich, 2011, Assistant Professor - Geographic Information Science
- Cerian Gibbes, Ph.D., University of Florida, 2011, Assistant Professor - Human-environment, remote sensing, climate/land interactions, socio-ecological implications of conservation strategies
- John Harner, Ph.D., Arizona State University, 1996, Professor and Chair - cultural, urban, GIS, Mexico
- David Havlick, Ph.D., University of North Carolina, 2006, Associate Professor - environmental politics, nature-society, public lands
- Curtis D. Holder, Ph.D., Clark, 2000, Professor climate, forest hydrology, human-environment interactions, Latin America
- Thomas P. Huber, Ph.D., University of Colorado, 1980, Professor geomorphology, remote sensing, Colorado/mountain environments
- Steven Jennings, Ph.D., University of California, Davis, 1989, Associate Professor - biogeography, geography education, mountain environments
- Emily Skop, Ph.D., Arizona State University, 2002, Associate Professor - urban, population, ethnic

- Brandon Vogt, Ph.D., Arizona State University, 2007, Assistant Professor — geomorphology, GIS, rock weathering, geovisualization
- Eric Billmeyer, M.A., University of Colorado, 2004, Instructor fluvial geomorphology, restoration, sedimentology, geospatial tools
- George Bolling, M.A., University of Northern Colorado, 1980, Senior Instructor — geomorphology, glaciations
- 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

EMERITAE:

- Eve Gruntfest, Ph.D., University of Colorado, 1982, Professor Emerita — natural hazards, weather and society integrated studies
- 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, MA in Applied Geography and Geo-Spatial Science
- GRANTED 9/1/12-8/31/13: 44 B.A. in Geography, 18 M.S in E.S.
- STUDENTS IN RESIDENCE: 174 Majors, 55 Masters
- **CHAIR: Deborah Thomas**
- DEPARTMENT PROGRAM ASSISTANT: Sue Eddleman
- DEPARTMENT ADMINISTRATIVE ASSITANT: Valerie Kraucunas

FOR CATALOG AND UNDERGRADUATE APPLICATION WRITE TO: Admissions, University of Colorado Denver, Downtown Denver Campus, Box 167, PO Box 173364, Denver, CO, 80217-3364.

For program brochures and other department information including admission to the graduate program write to: Department of Geography and Environmental Sciences, University of Colorado Denver, Downtown Denver Campus, Box 172, PO Box 173364, Denver, CO, 80217-3364. Telephone: 303-556-2276. Fax: 303-556-6197. Internet: http://clas.ucdenver.edu/ges

PROGRAMS AND RESEARCH FACILITIES: CU-Denver is a dynamic university consisting of 13 schools and colleges and 115 degree programs spread over two campuses - the Downtown Denver campus and the Anschutz Medical campus. Located on the Downtown Denver campus, the Department of Geography and Environmental Sciences offers a BA in Geography, an MS in Environmental Science, and beginning fall 2015, a new MA in Applied Geography and Geo-Spatial Science. The department also offers a Certificate in GIS, and a Certificate in Sustainable Urban Agriculture. Department research strengths are in both human and physical geography, though the faculty as a whole coalesces 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 the Downtown Denver campus with its base of operations at the Facility for Advanced Spatial Technology or "FAST" lab. This multidisciplinary laboratory provides state-of-the-art geo-spatial science technology for teaching. The FAST lab consists of 40 workstations color printers and plotters, system server, network access, and computer projection systems. The lab has secured site licenses for the most advanced GIS, image processing and database management software available in the industry. A new research-dedicated geo-spatial science laboratory and a new community engagement studio space will accompany the roll out of the new MA program in the fall, 2016. 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. Please write to the above addresses for information on admissions to the program. For financial aid, please write to: Office of Financial Aid, University of Colorado Denver, Downtown Denver Campus, Box 125, P.O. Box 173364, Denver, CO 80217-3364. Phone: 303-556-2886. Internet: finaid.cudenver.edu/.

- Casey Allen, PhD., Arizona State, 2008, Assistant Professor biogeomorphology, human-environment interaction, geography and science education, Latin America and the Caribbean
- Peter Anthamatten, Ph.D., Minnesota, 2007, Assistant 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
- Rudi Hartmann, Ph.D., Munich, 1983, Associate Professor, Clinical Teaching Track — world regional geography, Europe, China, tourism planning, geographic education
- 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, Assistant Professor environmental governance, political ecology, science studies, political economy of development, environmental history, India, US West
- Ryan Sincavage, M.S., Colorado-Boulder, 2003, Instructor stratigraphy, sedimentology, petroleum geology, weather and climate
- Deborah S.K. Thomas, Ph.D., South Carolina, 1999, Associate Professor — environmental hazards and disasters, health geography, GIS, environmental health
- 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
- John Wyckoff, Ph.D., Utah, 1980, Associate Professor landscape ecology/biogeography, environmental remote sensing, GIS

EMERETI:

Wes LeMasurier, Ph.D., Stanford, 1965 — igneous petrology, volcanology, volcanic geology of Antarctica

Martin Lockley, Ph.D., Birmingham, 1977 — paleontology, fossil footprints, evolution of consciousness

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); and B.A., B.S. in Environmental Science
- GRANTED 9/1/13-8/31/14: 17 Bachelors (Geography), 28 Bachelors (Environmental Science), 13 Masters, 2 Ph.D.
- GEOGRAPHY STUDENTS IN RESIDENCE: 75 Majors, 51 Masters, 6 Ph.D.

NOT IN RESIDENCE: 3 Masters, 9 Ph.D.

ENVIRONMENTAL SCIENCE STUDENTS IN RESIDENCE: 126 Majors

CHAIR: Andrew R. Goetz

DEPARTMENT ASSISTANT TO THE CHAIR: Amanda O'Connor

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Department of Geography, University of Denver, 2050 E. lliff 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, geographic economic geography, 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 online 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.

- 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 and Chair — transportation, urban geography/planning, economic geography
- Hillary Hamann, Ph.D., University of Colorado-Boulder, 2002, Senior Lecturer — hydrology, watershed biogeochemistry, physical geography, water resources, conservation
- Helen Hazen, Ph.D., University of Minnesota-Twin Cities, 2006, Lecturer — health and environment, environmental conservation
- Steven R. Hick, MA, University of Missouri, 1983, Lecturer and Director, MS-GISc Program — geographic information science, project management, cartography, criminology

- Michael J. Keables, Ph.D., University of Wisconsin-Madison, 1986, Associate Professor and Interim Dean, Daniel Felix Ritchie School of Engineering and Computer Science — 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, Lecturer and Internship Program Director — GIScience, Remote Sensing, Statistical Analysis
- Jing Li, Ph.D., George Mason University, 2012, Assistant Professor — geovisualization, spatiotemporal data modeling, high performance geocomputation, web-based GIS
- 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, Associate Professor and Director of Graduate Studies — Latin America, political ecology, development
- *Erika Trigoso Rubio, Ph.D., University of Oxford, 2010, Lecturer* vulnerability and adaptation to climate change, geographic information science, Latin America

ADJUNCT FACULTY:

- Joseph K. Berry, Ph.D., Colorado State University, 1976, Keck Scholar Professor/President Spatial Information Systems, Inc — CGIS modeling, spatial analysis, remote sensing, forestry
- Maria Caffrey, Ph.D., University of Tennessee, Knoxville, 2011, Adjunct Professor — paleoclimatology, meteorology, future anthropogenic climate change
- Andrea S.V. Gelfuso, J.D., University of Denver, 1990, Adjunct Professor — environmental law, environmental policy
- 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 Profsesor — 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

UNIVERSITY OF NORTHERN COLORADO

DEPARTMENT OF GEOGRAPHY & GIS DATE FOUNDED: 1968 DEGREES OFFERED: B.A. GRANTED 9/1/13-8/31/14: 11 Bachelors MAJORS: 35 DEPARTMENT CHAIR: James M. Dunn ADMINISTRATIVE ASST: Brooks Pardew

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. James Dunn, Department of Geography & GIS, University of Northern Colorado, Greeley, Colorado 80639. Telephone (970) 351-2715. Fax (970) 351-2890. E-mail: james.dunn@unco.edu. Internet: http://www.unco.edu/geography.

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE: Bachelor of Arts. The Program offers a major in Geography with the following choices of study emphasis: (a) Global and Area Studies; (b) Geographic Information Sciences, and (c) Secondary Teaching. An Internship Program is available for students. The program maintains a GIS lab supplied with a range of statistical, mapping, remote sensing, and GIS applications for student use. The emphasis area in Secondary Teaching meets all requirements for licensure to teach secondary social studies in Colorado.

GRADUATE: The Department offers a Graduate Certificate in Geography Education for teachers, consisting of 12 credit hours of graduate courses in Geography. There is also a post-baccalaureate program leading to licensure to teach social studies for graduate students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University operates year-round on the semester system (two semesters equal one academic year).

UNDERGRADUATE: For information on new undergraduate and transfer admissions, please see http://www.unco.edu/admissions/request/.

GRADUATE: For information on admission to the Graduate Certificate in Geography Education or the Secondary Teaching Post-Baccalaureate programs, please see http://www.unco.edu/grad/admissions/index.html.

- Karen Barton, Ph.D., University of Arizona, 2000, Associate Professor — resource management, hydraulic fracturing, sustainable food systems
- Charles O. Collins, Ph.D., University of Kansas, 1973, Professor Mexico and Caribbean, population, cultural, vernacular landscapes
- David M. Diggs, Ph.D., University of Colorado, Boulder, 1990, Professor — GIS, cartography
- James P. Doerner, Ph.D., University of Denver, 1994, Professor biogeography, paleoenvironmental change, geomorphology, Asia
- James M. Dunn, Ph.D., University of Colorado, Boulder, 1993, Professor — geography education, environmental systems, Canada
- Katherine Johnson, Ph.D., University of California, Berkeley, 2002, Associate Professor — political, urban, planning
- Phil Klein, Ph.D., University of Colorado, Boulder, 1993, Professor — international geography education, cultural, Europe
- Jessica Salo, Ph.D., Colorado State University, 2014, Instructor GIS, remote sensing, human-environment interaction, landscape ecology

Timothy Vowles, Ph.D., University of Denver, 2000, Adjunct Instructor - transportation, economic, New Zealand

EMERITI FACULTY:

David B. Cole, Ph.D., University of Colorado, Boulder John L. Dietz, Ph.D., Syracuse University Kevin C. Kearns, Ph.D., St. Louis University Richard K. Ormrod, Ph.D., Pennsylvania State University Charles G. Schmidt, Ph.D., University of Washington Steven L. Scott, D.A., University of Northern Colorado

CONNECTICUT

CENTRAL CONNECTICUT STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY **DATE FOUNDED: 1969 GRADUATE PROGRAM FOUNDED: 1964** DEGREES OFFERED: B.A., B.S., M.S., M.S. in Sustainability GRANTED 9/1/13-8/31/14: 68 Bachelors: 6 Masters STUDENTS IN RESIDENCE: 242 Majors, 60 Masters **NOT IN RESIDENCE: 45 Masters**

CHAIR: Richard W. Benfield DEPARTMENT SECRETARY: Diane Cannata

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Richard Benfield, Chair, Department of Geography, Central Connecticut State University, 1615 Stanley St., New Britain, Connecticut 06050. Tel (860) 832-2785. Fax (860) 832-3140. E-mail: BenfieldR@mail.ccsu.edu. Internet: www.geography.ccsu.edu/.

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE: Major in geography with a specialization in urban and regional planning. Also, major in geography with one of the following tracks: (1) physical/environmental, (2) geographic education, (3) geographic information science, (4) tourism, (5) general/regional, (6) planning, and (7) hospitality/tourism. Many paid internships available. Coop education program also available.

GRADUATE: Custom-designed programs to fit the needs of individual students. See undergraduate programs for areas of specialization. Please call for information about graduate assistantships. Facilities: Fully-equipped GIS, cartography and air photo interpretation labs. Our network includes 36 computers, plus digitizers, scanners, black/white, color laser printers and one plotter. We have 25,000 sheets in our U.S. Federal Government Map Depository collection. Scholarship: Timothy J. Rickard Scholarships for Geography Majors.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Undergraduate GPA of 2.7 or higher required for admission to graduate program; GRE not required. TOEFL score of 550 or higher required for those whose native language is not English. A limited number of Graduate assistantships are available. Call or write for further information.

FULL-TIME FACULTY:

- Richard W. Benfield, Ph.D., Oklahoma, 1998, Professor and Chairperson - Tourism, recreation, Europe, Russia & N.I.S
- Charles Button, Ph.D., Cincinnati, 2003, Professor Water resources, Environmental and Physical Geography

- Peter A. Kwaku Kyem, Ph.D., Clark Univ, 1997, Professor -Resource/Environmental/Physical Geography, GIS, Map reading and Sub-Saharan Africa
- Yunliang Meng, Ph.D. Western Ontario, 2010, Assistant Professor -GIS
- Cynthia Pope, Ph.D., Arizona, 2002, Professor Medical geography, Gender, Latin America
- William R. Price, Ph.D., Kansas, 2014, Assistant Professor -Tourism, Oceania
- Xiaoping Shen, Ph.D., Ottawa, 1995, Professor Economic, China, GIS, Cartography
- Brian J. Sommers, Ph.D., Arizona, 1994, Professor and Assistant to the Dean, School of Arts and Sciences - urban geography and planning, historic preservation, geography of wine

EMERITUS FACULTY:

- Timothy J. Rickard, Ph.D., Kansas, 1974, Professor Emeritus rural planning, Europe
- James Snaden, Ph.D. Michigan, 1974, Professor Emeritus human geography, Latin America, cartography
- John E. Harmon, Ph.D., Boston, 1979, Professor Emeritus GIS, transportation planning, field methods

PART-TIME FACULTY:

- William A. DeGrazia, M.S., Western Connecticut, 1974, Lecturer introductory courses, teaching method
- James Gambardella, M.A., Vermont, 1984, Lecturer air photo interpretation, soils and vegetation
- Marwin Gonzalez, M.S., Central CT State University, 2012 GIS
- David Johnson, M.A., University of South Dakota, 1971, Lecturer tourism and hospitality
- Angelina Kendra, Ph.D., Virginia Tech University, 2002, Lecturer recreation and tourism
- Donald Myers, M.S. and AICP, Central Connecticut, 1996, Lecturer - U.S. and Canada, recreation planning
- Donald Poland, M.S., Central Connecticut, 2000, Ph.D. Candidate, Univ. College of London, Lecturer - urban and regional planning
- Thomas E. Sherer, Jr., M.S., Central Connecticut, 1990, Lecturer map reading and cartography

UNIVERSITY OF CONNECTICUT

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1976 DEGREES OFFERED: B.A., B.S., M.A., Ph.D. GRANTED 09/01/14-08/31/15: 10 Bachelors, 3 Masters, 4 Ph.D.

STUDENTS IN RESIDENCE: 17 Majors, 1 M.A., 28 Ph.D.

CHAIR: Ken Foote

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Carol Atkinson-Palombo, 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: geography@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 a both an online and on-campus 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 M.A. and B.A./B.S. programs, 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 with other departments and programs across the university including, among others, the Center for Environmental Studies and Engineering; Center for Health, Intervention and Prevention, Department of Civil and Environmental Engineering in the College of Engineering; Department of Natural Resources; the Connecticut State Data Center; and the Africana Studies Institute.

As a department in a major research university, the support facilities of the department 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 four year course of study with a minimum 24 credits of coursework beyond the Master's degree, plus dissertation. Submission of GREs is required 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 — urban economic development, urban transportation, land use change, GIS-based modeling
- William H. Berentsen, Ph.D., Ohio State, 1976, Professor regional development and change, Europe and U.S.
- 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
- Robert G. Cronley, Ph.D., Ohio State, 1978, Professor location theory, GIScience, computer assisted cartography
- Heidi Dierssen, Ph.D., Univ. of Calif., Santa Barbara, 2000, Associate 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
- Debarchana Ghosh, Ph.D., Minnesota, 2009, Assistant Professor GIScience, social network analysis, mixed methods, health geography, social media
- 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
- Priscilla McCutcheon, Ph.D., Georgia, 2011, Assistant Professor sustainable agriculture, race and ethnicity
- Richard Mrozinski, M.A., Connecticut, 1996, Instructor GIScience, medical geography
- William Ouimet, Ph.D., Massachusetts Institute of Technology, 2007, Assistant Professor in in Geography and Center for Integrative Geosciences — geomorphology and geochemistry
- 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, Associate Professor climate change, society and climate
- Scott Stephenson, Ph.D., UCLA, 2014, Assistant Professor GIS, environmental change, transportation, natural resources
- Nathaniel S. Trumbull, Ph.D., Washington, 2006, Associate Professor — 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 Provost for Global Affairs — development geography; political ecology; GIS and society
- Chuanrong Zhang, Ph.D., Wisconsin, Milwaukee, 2004, Associate Professor — GIScience, remote sensing, spatial analysis

EMERITUS and RETIRED FACULTY:

- Peter L. Halvorson, Ph.D., Cincinnati, 1970, Professor Emeritus
- Thomas R. Lewis, Ph.D., Rutgers, 1978
- Ross MacKinnon, Ph.D., Northwestern, 1968, Professor Emeritus
- Jeffrey P. Osleeb, Ph.D., SUNY Buffalo, 1974, Professor Emeritus

ASSOCIATED FACULTY:

 Daniel L. Civco, Ph.D., Connecticut, 1987, Professor of Geomatics, Department of Natural Resources and the Environment and Director, Center for Landuse Education and Research (CLEAR)
 remote sensing, image processing, GIS, land use change, natural resources management

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 9/1/14-8/31/15: 110 Bachelors, 9 Masters, 3 Ph.D.
- STUDENTS IN RESIDENCE: 335 Majors (55 Geography, 155 Environmental Science, 90 Environmental Studies), 16 Masters, 8 Ph.D., 11 GIS Certificate

NOT IN RESIDENCE: 2 Masters, 4 Ph.D. CHAIR: Tracy DeLiberty ASSISTANT TO THE CHAIR: Kaci Middlemas

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Tracy DeLiberty, Chair, Department of Geography, University of Delaware, Newark, DE 19716. Telephone: (302) 831-2294. Fax (302) 831-6654 (Faxes should be directed to Tracy DeLiberty). E-mail: info@geog.udel.edu. http://www.ceoe.udel.edu/schoolsdepartments/department-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-environmental interactions. A newly 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-theart 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 geochemical 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-theart 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 SURA-Grid, 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:

- Cristina Archer, Ph.D., Stanford University, 2004, Associate Professor — renewable energy, wind power, meteorology, climate change, air quality, numerical modeling of atmospheric processes.
- Lodevicus Claessens, Ph.D., UC Santa Barbara/San Diego State University, 2008, Assistant Professor — hydrology and ecosystems processes, land-use and climate change impact, nutrient cycling, aquatic restoration
- Afton Clarke-Sather, Ph.D., University of Colorado, 2012, Assistant Professor — human dimensions of resource governance, particularly issues of water and climate
- Tracy L. DeLiberty, Ph.D., Oklahoma, 1994, Associate Professor and Chair — climatology, sea ice, GIS, remote sensing
- Cathleen A. Geiger, Ph.D., Dartmouth, 1996, Research Associate Professor — climatology, mechanics, kinematics, and dynamics of sea ice, cryosphere, polar regions
- Brian Hanson, Ph.D., 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, 1988, Professor and Delaware State Climatologist — snowfall and snow cover studies, cryosphere, atmospheric dynamics, hydroclimatology, microclimate
- David R. Legates, Ph.D., 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 Director of the Environmental Science and Studies Program biometeorology, hydrology, watershed ecology, field methods and instrumentation, environmental management
- 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., 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 — regional modeling in Arctic/Antarctic, Arctic energy budget, cloud forcing and feedback, sea breeze, wind resource assessment, airsea interactions
- Byungyun Yang, Ph.D., 2011, Visiting Assistant Professor GIS modeling, web GIS, computer cartography, GIS spatial statistics, geovisualization, satellite image analysis, geographic object based image analysis, LiDAR analysis

EMERITUS:

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

PROFESSIONAL ACADEMIC STAFF:

- Margaret R. Legates, M.Ed., Delaware, 1991, Program Coordinator of the Delaware Geographic Alliance — geographic education
- Kenji Matsuura, Ph.D., Delaware, 1992, Geographic Programmer/Analyst — climatology, database management, computer applications

AFFILIATED FACULTY:

- David L. Ames, Ph.D., Clark, 1969, Professor (joint appointment with Urban Affairs and Public Policy) and Director of the Center for Historic Architecture and Engineering — historic preservation, urban geography, urban and regional planning
- 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
- Melinda Daniels, Ph.D., University of Illinois, 2003, Associate Research Scientist (affiliated appointment with Stroud Water Research Center) — fluvial geomorphology
- Terri Lavin, Ph.D., University of Delaware, 1996, Adjunct Assistant Professor — climatology
- John E. A. MacKenzie, Ph.D., Rhode Island, 1985, Associate Professor (joint appointment with Department of Food & Resource Economics) — resource economics, GIS, land use
- 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
- Anthony Seraphin, Ph.D., Delaware, 2004, Assistant Professor (joint appointment with Department of Mathematical Sciences) climate datasets, pollution transport
- Amy T. Smith, Ph.D., University of Delaware, 1995, Adjunct Assistant Professor — Conservation, resources and economic geography

DISTRICT OF COLUMBIA

ASSOCIATION OF AMERICAN GEOGRAPHERS

DATE FOUNDED: 1904 EXECUTIVE DIRECTOR: Douglas Richardson

FOR MORE INFORMATION WRITE TO: AAG, 1710 Sixteenth Street NW, Washington, DC 20009-3198. Voice 202-234-1450. Fax 202-234-2744. Email: gaia@aag.org. http://www.aag.org.

PROGRAMS: The Association of American Geographers (AAG) was founded to promote and encourage geographic research and education and to disseminate research findings. The AAG currently counts over 10,000 members in the United States, Canada, and other countries. 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 Association of American 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-two specialty groups, and five affinity groups; and through multiple conferences and its annual meetings. At its most recent annual meeting in Chicago, IL in April 2015, over 6,700 research papers, posters, and illustrated papers were presented on numerous topics by the approximately 9,000 geographers who attended. The AAG's 2016 Annual Meeting will be held from March 29-April 2, 2016 in San Francisco, CA. Professor Mona Domosh of Dartmouth College currently serves as president of the AAG. Professor Sarah Bednarz of Texas A&M University is vice president. Professor Julie Winkler of Michigan State University is immediate past president. Additional details regarding AAG history and operations are contained in the handbook section of this volume.

STAFF:

Leanne Abraham, Research Assistant Jennifer Cassidento, Journals Managing Editor (Annals of the AAG) David Coronado, Communications Director Colleen Dougherty, IT Director Ed Ferguson, Director of Administration Niem Huynh, Senior Researcher Oscar Larson, Conference Director Michelle Ledoux, Membership Director Candice Luebbering, Senior Research Geographer Jennifer Lunn, Senior Researcher and Journals Director Robin Maier, Journals Production Editor (Professional Geographer) Candida Mannozzi, Senior Manager of Program Development Teri Martin, Director of Finance Astrid Ng, Special Projects Coordinator Reacha O'Neal, Administrative Assistant Becky Pendergast, Director of Design and Digital Products Mark Revell, Research Assistant, AAG Guide Editor Douglas Richardson, Executive Director Michael Solem, Director of Educational Research and Programs Yonette Thomas, Senior Advisor John Wertman, Senior Program Manager for Government Relations Marcela Zeballos, Research Assistant

GEORGE WASHINGTON UNIVERSITY

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1945 DEGREES OFFERED: B.A., M.A. GRANTED 9/1/13-8/31/14: 41 Bachelors, 8 Masters STUDENTS IN RESIDENCE: 136 Majors, 22 Masters NOT IN RESIDENCE: 0 CHAIR: Lisa Benton-Short DEPARTMENT ADMINISTRATIVE ASST: Andrii Berdnyk

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chairman, Department of Geography, 1922 F St. NW, Office 232, 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 Arts 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. Students can select courses from allied programs within the University or available through the consortium of universities within the Washington area. The M.A. program focuses on the urban environment; development and sustainability; human migration and mobility; and applied geospatial techniques. A limited number of fellowships and teaching assistantships are available, as are internship possibilities with various agencies. A GIS Certificate Program was introduced in 2014, which is a 12-credit program with rolling admission open to students who already have a B.A. or B.S. degree.

- Mona Atia, Ph.D., University of Washington, 2008, Associate Professor of Geography and International Affairs — Economic Development, Cultural, and the Middle East
- Lisa M. Benton-Short, Ph.D., Syracuse University, 1997, Associate Professor of Geography — Urban Geography, Environmental Issues

- Nuala Cowan, D.Sc., The George Washington University, 2013, Assistant Professor of Geography — GIS for Emergency Management, Open Geospatial Data for Disaster Preparedness
- Stephen Cowan, M.A., University of Westminster, 2000, Lecturer of Geography — Military Geography, International Relations, and Political Theory
- Elizabeth Chacko, Ph.D., UCLA, 1997, Associate Professor and Chair of Geography — Population, Cultural and Urban Geography, South Asia
- Ivan Cheung, Ph.D., UCLA, 1998, Professorial Lecturer in Geography — Spatial Analysis, Climatology, Transportation
- 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
- Deepak Gopalakrishna, M.S. in Civil Engineering, Ohio State University, Professorial Lecturer of Geography — Transportation Planning and Policy, Transit Operations
- Melissa Keeley, Ph. D., Technical University of Berlin, 2007, Assistant Professor of Geography — Urban Environmental Geography, 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
- Lawrence Marcus, M.A., Indiana University, 1986, Assistant Professorial Lecturer of Geography — Urban Planning, Transportation
- 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
- Nathan Smith, M.A., Virginia Polytechnic Institute and State University, 2009, Lecturer of Geography — Geospatial Information Sciences, Emergency Management, Urban and Regional Planning
- Dmitry Streletskiy, Ph.D., University of Delaware, 2010, Assistant Professor of Geography — Climate Change, Arctic Environments, Geography of Russia, Periglacial Geomorphology, and GIS
- Qin Yu, Ph.D, University of Virginia, 2012, Professorial Lecturer of Geography — Arctic Environments and Remote Sensing

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.

NATIONAL COUNCIL FOR GEOGRAPHIC EDUCATION

DATE FOUNDED: 1915

CHIEF EXECUTIVE OFFICERS: Zachary R. Dulli & Jacqueline L. Waite

FOR FURTHER INFORMATION ABOUT NCGE PLEASE CONTACT: The National Council For Geographic Education, 1101 14TH Street, NW, Suite 350 Washington, D.C. 20005. Telephone: 202-216-0942. Fax: 202-618-6249. E-mail:_ncge@ncge.org Internet: www.ncge.org

PROGRAMS AND RESEARCH FACILITIES: The NCGE works to enhance the status and quality of geography teaching and learning. To meet its mission, the NCGE: promotes the importance and value of geographic education; enhances the preparation of geographic educators with respect to their knowledge of content, techniques, and learning processes; facilitates communication among teachers of geography; encourages and supports research on geographic education; develops, publishes, and promotes the use of curriculum, resource, and learning materials; cooperates with other organizations that have similar goals.

STAFF:

Zachary R. Dulli, Co-CEO Jacqueline L. Waite, Co-CEO Shana F. Lerner, Membership Coordinator Barbaree Ash Duke, Webinar Coordinator Melissa Lepak, Events Coordinator Hanna Duke, Accountant

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EDITOR, JOURNAL OF GEOGRAPHY: Jerry T. Mitchell

EDITOR, THE GEOGRAPHY TEACHER: Jody Smothers Marcello

PATHWAYS PUBLICATION SERIES: (Partial List)

- Bauman, Paul R., 2004. The American Landscape from the Air: Studying US Geography with Aerial Photography
- Bednarz, Robert S. (Editor), 2004. A Teacher's Guide to Advanced Placement Geography: Essays, Strategies, and Resources
- Bock, Judith A., 2004. Grades 5-8 Standards Based Lesson Models
- DeChano, Lisa and Shelley, Fred, 2006. Teaching Geography Through Sports
- Elbow, Gary (Editor), 2004. Teaching Human Geography: Selections from the Journal of Geography

Fraser, Celeste, 2002. Grades K-4 Standards Based Lesson Models Gersmehl, Phil., 1996. The Language of Maps

Lockwood, Catherine M. (Editor), 2004. Focus on Human Geography: Readings for Students from Focus Magazine

Marcello, Jody S., 2007. *Teaching Map Skills: An Inductive Approach* Mowell, Barry D. (Editor), 2006. *Teaching About the Islamic World*

Rice, G.H. and Bulman, T.L., 2001. Fieldwork in the Geography Curriculum: Filling the Rhetoric-Reality Gap Walk, Fred, 2003. Grades 9-12 Standards Based Lesson Models

APPLIED TEACHING MATERIALS (ATMS) AND APPLIED RESEARCH MATERIALS (ARMS) PUBLICATION SERIES: Marcello, Jody S., 2011. *AP Human Geography*

Thomson, Herb, 2011. A Geographic View of World History

OTHER PUBLICATIONS:

Stuart Sinton, Diana, 2013, The People's Guide to Spatial Thinking

Elbow, Gary S., Rutherford, David J. and Shearer, Christopher (Editors) Geographic Literacy in the United States: Challenges and Opportunities in the NCLB Era

The National Council for Geographic Education is the outlet for *Geography for Life: National Geography Standards (2012) on behalf of* the Geographic Education National Implementation Project (GENIP).

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 growth problems and policies, international migration, refugee flows, national asylum and immigration policies, transboundary environmental and public health problems, humanitarian relief concerns, war crimes, 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.
- Laura Cline, M.A. Geography, 2004, B.A. International Affairs, 2002, The George Washington University – Humanitarian Information Unit, National Geospatial-Intelligence Agency Support Team
- Cynthia Day, Foreign Service Officer, B.A., University of Texas, 1994; M.J. Journalism University of California, Berkeley, 2000; M.A. University of Chicago 2002 – Foreign Affairs Analyst-Population, Refugees, and Migration.
- 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
- Frederick L. Faithful, MA Public Administration, Central Michigan University, 1974, BA History, Bowling Green State University, 1972 – Director, National Geospatial-Intelligence Agency Support Team.
- Christine Fellenz, B.A., University of Wisconsin-Parkside, 1996 Cartographer, Humanitarian Information Unit
- Debbie Fugate, Ph.D., Geography, San Diego State University and the University of California, Santa Barbara, 2008; M.A.,. Geography, San Diego State University, 2003; B.A., Geography, San Diego State University, 2001 – Senior advisor to the Geographer and Humanitarian Information Unit.
- 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, Ph.D., 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.
- C. Sherry Hong, Foreign Service Officer. B.A. Public Policy Studies, University of Chicago, 1998; M.S. Environmental Management and Science, Department of Civil and Environmental Engineering, Carnegie Mellon University, 2012 – Chief, Multilateral and Transnational Issues Division
- 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 Analyst
- Dennis J. King, M.S. Columbia University, 1983 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.
- 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, war crimes, atrocity prevention
- Mariah Mercer, M.A. Australian National University, 2011; B.A. Miami University, 2003 – Analyst - Human Rights, Women's Issues, and Democracy.
- Michael D. Morin, M.A. George Washington University, 1987; B.A. University of Maine-Orono, 1984 – Chief, War Crimes, Democracy, and Human Rights Division.
- 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
- Karen L. Puschus, B. S. Chemistry, University of Florida, 1990 U. S. Army Civil Affairs Representative to the 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.

- Erin Sawyer, DOS Foreign Service Officer. B.A. Swarthmore College (1993), M.A. and J.D. Stanford University (1995, 1998) – Chief, Humanitarian Information Unit.
- Lauren F. Serrano, Marine Captain and Middle East Foreign Area Officer, M.S. National Intelligence University, 2015; B.A. and dual Minors Drexel University, 2009 – Foreign Affairs Analyst – Conflict and Stabilization Operations, Civilian Security, Democracy, and Human Rights
- Rod Schoonover, Ph.D. Chemical Physics, University of Michigan, 1993; B.S. Chemistry, B.S. Physics, University of Kansas, 1987 – Science and Technology Analyst.
- Christine Lamers Somer, B.A. Cultural Geography, Illinois State University – Deputy Director, National Geospatial-Intelligence Agency Support Team
- Robert A. Spodarek, Marine Captain, M.S. National Intelligence University, 2014; B.S. United States Naval Academy, 2006 – Foreign Affairs Analyst – Conflict and Stabilization Operations, Civilian Security, Democracy, and Human Rights
- 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.
- Benson Funk Wilder, M.A. Geography, University of Colorado at Boulder, 2006; B.A. Biology, Swarthmore College, 1999 – Analyst, Humanitarian Information Unit.

FLORIDA

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 2014-2015: 8 B.A. Geography; 133 B.A. Sociology/Anthropology; 6 M.A. GSS; 6 Ph.D. GSS
- MAJORS: 26 (Geography B.A.); 356

(Sociology/Anthropology); 7 (GSS M.A.); 55 (GSS Ph.D.)

HEAD: Roderick Neumann

DEPARTMENT OFFICE MANAGER: Joanette Brookes

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Global and Sociocultural Studies, SIPA 340, Modesto Maidique Campus, Florida International University, Miami, FL 33199. Telephone (305) 348-2247. Fax (305) 348-3605. E-mail: jbrookes@fiu.edu. Internet: 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 FIU's Steven J. Green School of International and Public Affairs - 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 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, 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 College of Arts and Sciences. 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 the 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.

- Peter Craumer PhD, Columbia, 1988, Associate Professor [GEO] Russia and former Soviet Union, rural geography, agriculture, and population change
- Juliet Erazo PhD, Michigan, 2003, Associate Professor [ANT] indigeneous social movements, globalization, environmental anthropology, political ecology; Amazonia, The Andes, Ecuador
- Christopher Girard PhD, Wisconsin, 1988, Associate Professor [SOC] — research Methods, deviance, medical sociology, social problem, stratification
- Hugh Gladwin, PhD, Stanford, 1970, Associate Professor [ANT] economic and cognitive anthropology, public opinion research, research methods; West Africa, Mesoamerica
- Ricardo Gonzalez, PhD, Hawaii, 2008, Instructor [GEO] Coastal/Marine Geography, Political Ecology, Cultural Geography, Latin America, Caribbean, Europe
- Guillermo Grenier, PhD, New Mexico, 1986, Professor [SOC] Labor relations, sociology of work, ethnicity, immigration; United States, Latin America
- Kevin Grove, Ph.D., The Ohio State University, 2011, Assistant Professor [GEO] — Disaster studies, resilience, social theory, Caribbean
- Gail Hollander, PhD, Iowa, 1999 Associate Professor [GEO] economic geography, agro-environmental conflict, food system theory, feminist geography; North America and the Caribbean
- A. Douglas Kincaid, PhD, Johns Hopkins, 1987, Associate Professor [SOC] — political sociology, urban/rural sociology, sociology of development; Central America, Latin America
- Qing Lai, PhD, Michigan, 2014, Assistant Professor [SOC] Quantitative methods, demography, life course, social stratification and inequalities, globalization, development, China, social psychology
- Abraham Lavender, PhD, Maryland, 1972, Professor [SOC] ethnicity and minority groups, social deviance, human sexuality, urban sociology; South Florida
- Kathy Lineberger, PhD, Colorado, 2009, Instructor [SOC]
- Shearon Lowery, PhD, Washington State, 1979 Associate Professor [SOC] — social deviance, mass communications, juvenile delinquency, criminology
- Sarah Mahler, PhD, Columbia, 1992 Associate Professor [ANT] urban anthropology, cultural anthropology, physical anthropology; Latin America, Caribbean, North America

- Matthew Marr, PhD, UCLA, 2007, Associate Professor [SOC] urban sociology, Japanese society, qualitative research methods, globalization, poverty, public sociology; Japan, United States
- Roderick Neumann, PhD, UC Berkeley, 1992, Professor [GEO] political ecology, landscape and identity, nature-society, social theory, Africa; Europe
- Jeff Onsted, Ph.D., UC Santa Barbara, 2007, Associate Professor [GEO] — land use, remote sensing, GIS
- Ulrich Oslender, Ph.D., U of Glasgow, 2001, Associate Professor [GEO] — political geography, political ecology, social movements, Latin America, forced displacement, geopolitical discourses on terror
- Vrushali Patil, PhD, Maryland, 2006, Associate Professor [SOC] gender, sexuality, culture, transnationalism, feminist theory
- Marifeli Perez-Stable, PhD, SUNY, 1985 Professor [SOC] political sociology, economics and society; Cuba
- Patricia Price, PhD, Washington, 1997, Professor [GEO] gender, urbanization and development, geography and social theory; Latin America
- Andrea Queeley, Ph.D., CUNY, 2007, Associate Professor [ANT] --cultural anthropology, African diaspora studies, the Caribbean
- Jean Rahier, PhD, University of Paris, 1994, Professor [ANT] race relations, African studies; Africa, Latin America
- Derrick Scott, PhD, Maryland, 2012, Instructor [GEO] GIS, Urban Geography, Geo-Economics/Politics, Housing issues, New-Urbanism, Smart Growth, Areas; West Indies, US Cities, Sub-Saharan Africa
- Benjamin Smith, PhD, Kentucky, 2008, Associate Professor [GEO] cultural landscapes, economic geographies, urban geographies, contemporary Persian Gulf
- Jason Ritchie, PhD, Illinois, C-U, 2010, Assistant Professor [ANT] Race, Gender, and Sexuality; Sovereignty, Biopolitics, and the Nation-State; Secularism, Religiosity, and Affect; Queer Theory; Islam, the Middle East, and Israel-Palestine
- Richard Tardanico, PhD, Johns Hopkins, 1979, Associate Professor [SOC] — political economy of development, urban sociology; Latin America
- Dennis Wiedman, PhD, Oklahoma, 1979, Clinical Associate Professor [ANT] — medical anthropology, organizational culture, environment anthropology, urban anthropology, ethnohistorical research methods, applied anthropology; Native Americans
- Bin Xu, PhD, Northwestern, 2011, Assistant Professor [SOC] Cultural Sociology, Political Sociology, Social Theory, Politics of Morality, Collective Memory, Disaster, East Asia, China

FLORIDA STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1925

- GRADUATE PROGRAMS FOUNDED: M.A. 1930, Ph.D. 1995, M.S. GIScience 2006
- DEGREES OFFERED: B.A., B.S., M.A., M.S., Ph.D.
- GRANTED 8/31/2003-3/31/15: 28 M.A., 121 M.S. 42 Ph.D.
- STUDENTS IN RESIDENCE: 251 Majors, 52 Masters, 27 Ph.D.
- **CHAIR: James Elsner**
- **GRADUATE DIRECTOR: Victor Mesev**

DEPARTMENT ADMINISTRATIVE ASST: Audrey Nichols

FOR FURTHER INFORMATION: Graduate School (www.gradschool.fsu.edu) and Geography Graduate Director, Dr. Victor Mesev (850-645-5913, vmesev@fsu.edu) at the Department of Geography, 323 Bellamy Building, 113 Collegiate Loop, Florida State University, Tallahassee, Florida 32306-2190. Tel: (850) 644-1706. Fax: (850) 644-5913. www.fsu.edu/~geog.

PROGRAMS AND RESEARCH FACILITIES: Geography at Florida State University emphasizes the intellectual and technical advances of all aspects of geography, but focuses on four major areas: Cities and Mobilities, Hurricanes and Climate Change, Urban Remote Sensing, and Space-Time & Visualization. All are underscored by geospatial science and environmental analysis. Geospatial science encompasses GIS, remote sensing, spatial statistics, and cartography, and recent research includes land use modeling, image classification, transportation optimization, regionalization, time series, network analysis, climate change models, space/time models, dasymetric models, neural nets, Bayesian probabilities, landscape dynamics, fractal geometry, and scale dependence. Environmental analysis encompasses the human-natural landscape interaction by examining the social costs and physical impacts of hurricanes and tornadoes, change impacts on biodiversity and ecosystem functions, flood frequency, coastal ecosystems, energy consumption, environmental health and justice, waste management, urban political ecology, population vulnerability, and policies for resource management. The undergraduate program includes the Geography major consisting of 34 semester hours, and the interdisciplinary Environmental Studies major requiring 41 semester hours. For the master's program with the thesis option, students must complete at least 30 semester hours, including 24 hours of course work and 6 hours of thesis (which must be defended orally). A non-thesis option requires 33 semester hours of coursework. A Masters program is also available in GIScience with 26 taught credit hours and 6 internship/project hours, and may be completed within one year. Research and teaching is conducted in two fully-equipped and purpose-built GIS labs with all major GIS and remote sensing proprietary software and dedicated GIS teaching assistants. The Ph.D. degree requires courses in geographic philosophy, research methods, and professional development. Written and oral comprehensive examinations must be passed. The dissertation requires 24 credit hours as well as an oral defense upon completion. Recent Ph.D. recipients have been placed in academic positions, state/federal environmental offices, and private software companies. The Department also enjoys productive relationships with institutions such as, Florida Resources and Environmental Analysis Center, Institute for Government, Fish & Wildlife Conservation Commission, Department of Transport, USDA Forest Service, National Parks, and Tallahassee-Leon County GIS.

ADMISSION REQUIREMENTS AND FINANCIAL AID: Graduate Admission requires a minimum GPA of 3.0 and/or a GRE score of at least 144 (math) and 153 (verbal). Non-native English speakers need a TOEFL of 550 (PBT) or 80 (IBT). Funding for graduate assistantships is available at the current rate of \$16,480-\$18,980 per academic year, plus tuition waiver. Other sources of funding include research assistantships, university fellowships, online mentoring, and internships with local state institutions.

- Ronald Doel, Ph.D., Princeton, 1990, Associate Professor of History — environmental history, international relations, Arctic
- James Elsner, Ph.D., Wisconsin-Milwaukee, 1988, Earl B. and Sophia H. Shaw Professor & Chair — hurricanes, tornadoes, spatial statistics, climatology
- David Folch, Ph.D., Arizona State, 2012, Assistant Professor GIS, geocomputation, spatial analysis, urban geography
- Mark Horner, Ph.D., Ohio State, 2002, Professor GIS, transportation, spatial analysis, urban geography
- Mary Lawhon, Ph.D., Clark, 2011, Assistant Professor political geography, urban political ecology, waste, African urbanism
- Victor Mesev, Ph.D., Bristol, England, 1995, Professor & Graduate Director — GIS, remote sensing, cartography, urban geography
- Stephanie Pau, Ph.D., UCLA, 2009, Assistant Professor biogeography, remote sensing, tropical forests, c4 grasses, climate change
- Joseph Pierce, Ph.D., Clark, 2011, Assistant Professor urban geography, political geography, urban sustainability, qualitative methods

- Christopher Uejio, Ph.D., Wisconsin-Madison, 2011, Assistant Professor — public health, medical geography, climate change, vulnerability
- Morton Winsberg, Ph.D., Florida, 1958, Professor Emeritus climate change, religion
- Xiaojun Yang, Ph.D., Georgia, 2000, Professor remote sensing, GIS, urban ecology, coastal ecosystems
- Tingting Zhao, Ph.D., Michigan, 2007, Associate Professor GIS, energy, sustainability

ADJUNCT FACULTY:

- George Cole, Ph.D., Florida State, 2007 land survey methods, GPS
- Richard Miller, Ph.D., Wisconsin-Milwaukee, 1987 landforms, US national parks

Laurie Molina, Ph.D., Florida State, 1997 — geographic education

Nicholas Quinton, Ph.D., Florida State, 2014 — electoral geography, economic geography

Scott Weisman, M.S., Florida State, 2007 - GIS, local government

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, Ph.D. in Geography and Environmental Science & Policy, B.A., B.S., M.S., Ph.D. in Geology.
- GRANTED 2012/2013: Geography/ESP: 112 Bachelors, 19 Masters, 2 Ph.D.; Geology: 13 Bachelors, 6 Masters, 5 Ph.D.
- STUDENTS IN RESIDENCE (All School Programs) 2012/2013: 629 Majors, 111 Masters, 89 Doctoral.

CHAIR: Mark Rains, Ph.D.

- ASSOCIATE CHAIR: Steven Reader, 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/

GEOGRAHY AND ENVIRONMENTAL SCIENCE & POLCY 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. Kamal Alsharif, 813-974-4883, kalshari@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
- Lori Collins, Ph.D., University of South Florida (Anthropology), 2007, Research Associate Professor — terrestrial laser scanning and geospatial visualization, GIScience
- Travis Doering, Ph.D., University of South Florida (Anthropology), 2007, Research Associate Professor — terrestrial laser scanning, geospatial visualization, cultural heritage
- Joni Downs, Ph.D., Florida State University, 2008, Associate Professor — geographic information systems, spatial analysis and modeling, wildlife and forest ecology
- 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
- Graham A. Tobin, Ph.D., University of Strathclyde (Scotland), 1978, Professor — 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/Hydrology/ 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. Sylvain Charbonnier Physical Volcanology, geomorphology
- Dr. Aurelie Germa Volcanology, petrology and geochemistry
- Dr. Zachary Atlas Igneous Petrology
- Dr. Jochen Braunmiller 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 STATE UNIVERSITY

DEPARTMENT OF GEOSCIENCES

DEGREES OFFERED: B.A., B.S. in Geosciences (Concentrations in Geography, Geology, Environmental Geosciences, or Urban Studies); M.S. in Geosciences (Concentrations in Geography or Geology); Ph.D. in Chemistry (Concentration in Geology), Undergraduate and Graduate Certificates in Geographic Information Science. STUDENTS: 140 Majors, 50 Masters, 4 Ph.D.

CHAIR: Daniel M. Deocampo

BUSINESS MANAGER: Basirat Lawal

FOR FURTHER INFORMATION WRITE TO: Dr. Jeremy E. Diem, Director of Graduate Studies in Geosciences, Department of Geosciences, Georgia State University, P.O. Box 4105, Atlanta, Georgia 30303. Telephone (404) 413-5750. Fax (404) 413-5768. Or to Dr. Lawrence Kiage, Director of Undergraduate Studies in Geosciences, Department of Geosciences, Georgia State University, Atlanta, GA 30302-4105 Telephone: 404 413-5777. 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, paleoenvironmental, and applied geography. Graduate students may elect either a thesis or non-thesis option. 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 intern, 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.

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

- Hassan A. Babaie, Ph.D., Northwestern 1984, Associate Professor Structural Geology, Geoinformatics
- Dajun Dai, Ph.D., Southern Illinois University, 2007, Assistant Professor — GIS, Heath Disparities
- Daniel M. Deocampo, Ph.D., Rutgers, 2001, Associate Professor Sedimentology and Environmental Geochemistry
- Jeremy E. Diem, Ph.D., Arizona 2000 Associate Professor Air pollution, applied climatology
- W. Crawford Elliott, Ph.D., Case Western Reserve 1988, Associate Professor and Chair — Clay Mineralogy; environmental geology.
- Katherine Hankins, Ph.D., Georgia 2004, Associate Professor Urban geography
- Lawrence W. Kage, Ph.D., Louisiana State University, 2007, Associate Professor — Biogeography and Paleoenvironments
- 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

- Luke Pangle, Ph.D., Oregon State University, 2013, Assistant Professor — Vadose Zone Hydrology, Ecology, Biogeochemistry
- Katie Price, Ph.D., University of Georgia, 2009, Assistant Professor — Hydrology and geomorphology
- 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

- **GRADUATE PROGRAM FOUNDED: N/A**
- DEGREES OFFERED: B.A. in Geography (online and traditional formats), B.S. in Geographic Information Science, Certificate in Geographic Information Sciences
- GRANTED TO DATE: B.S. Geographic Information Science =110,

B.A. Geography = 63.

- STUDENTS IN RESIDENCE: Geographic Information Science = 98, Geography = 79
- CHAIR: Susan Kirkpatrick Smith, Ph.D.
- DEPARTMENT ADMINSTRATIVE ASSISTANT: Melissa Sullivan

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Matthew Mitchelson, Department of Geography & Anthropology, 402 Bartow Ave, MD 2203, Kennesaw State University, 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), and a Certificate in Geographic Information Sciences. 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 has a strong professional component that prepares students for employment in the GIS field. It offers students the integration of practical geospatial skills and technologies with scientific, technological and contextual knowledge. Students may select an urban systems or an environmental systems concentration. The GISc degree includes an information systems component that complements coursework in GIS and remote sensing so that students meet the needs of the geospatial job market. All GISc degree students are required to complete a GIS internship or co-op; all GIS Certificate students are required to complete a GIS practicum.

The Department currently has eleven 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, biogeography, 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 (typically SAT), official high school and college transcripts. Financial Aid: student employment opportunities and need-based awards including Federal programs available.

- David J. Doran, Jr., M.A., Georgia State University, 2006, Visiting Instructor — historical geography, Europe, North America, and Sub-Saharan Africa
- Nancy Hoalst-Pullen, Ph.D. University of Colorado at Boulder, 2008, Associate Professor & GIS Director — forest dynamics, biogeography, soils, watershed biogeochemistry, applications of geotechnologies, geospatial education, Latin America
- Ulrike Ingram, M.A., Georgia State University, 2006, Lecturer 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 & Environmental Studies Coordinator — 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, Associate Professor — cultural geography, natural resource management, tropical conservation and development, ecotourism, tropical agriculture, Latin America, the Caribbean, Sub-Saharan Africa
- Garrett Smith, Ph.D., University of California at Davis, 1996, Associate Professor & Online Geography (B.A.) Coordinator cultural geography, urban geography, geography of religion, Sub-Saharan Africa
- 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, 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., M.A., M.S., Ph.D., Certificates in GIScience and Atmospheric Sciences GRANTED: 7/1/13-6/30/14: 25 Bachelors, 13 Masters, 8 Ph.D. STUDENTS IN RESIDENCE: 30 Masters, 56 Ph.D. HEAD: Thomas Mote

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Undergraduate Coordinator (Fausto Sarmiento) or Graduate Coordinator (Xiaobai Yao), Department of Geography, University of

OFFICE MANAGER: Loretta Scott

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, 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/meteorology, geomorphology, studies, biogeography, Quaternary and geoarchaeology; 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 Amy Bellamy (geoggrad@uga.edu). The department administers graduate and undergraduate certificates in Geographic Information Science and Atmospheric Sciences. 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
- George Brook, Ph.D., McMaster, 1976, Merle C. Prunty Jr. Professor — Quaternary studies, arid lands, geoarchaeology, geomorphology, karst
- Andrew Grundstein, Ph.D., Delaware, 1999, Professor 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 Associate Head — urban, racial justice, labor and housing market inequalities, critical quantitative and mixed methods
- John Knox, Ph.D., Wisconsin, 1996, Associate Professor dynamics of weather and climate, geoscience education, atmospheric hazards, satellite remote sensing applications
- Hilda Kurtz, Ph.D., Minnesota, 2000, Associate Professor critical agri-food studies, environmental justice, and social movements
- David Leigh, Ph.D., Wisconsin, 1991, Professor geomorphology, Quaternary studies, geoarcheology, 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, Professor and Head hydroclimatology, synoptic/satellite climatology, climate change, cryosphere
- Lan Mu, Ph.D., California-Berkeley, 2002, Associate Professor GIScience, spatial analysis and modeling, computational geometry
- Kavita Pandit, Ph.D., Ohio State, 1987, Professor and Associate Provost for International Education — population geography, economic geography, international higher education
- David Porinchu, Ph.D., UCLA, 2002, Associate Professor biogeography, paleolimnology, paleoclimatology, water resources, climate change
- Jennifer Rice, Ph.D., Arizona, 2009, Assistant Professor urban political ecology, science studies, climate and carbon governance, politics of knowledge
- Amy Ross, Ph.D., California-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 Limited Term — 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, Associate Professor and Graduate Coordinator — GIS, geospatial analysis and modeling, urban and transportation geography

HAWAII

UNIVERSITY OF HAWAII AT MANOA

DEPARTMENT OF GEOGRAPHY **DATE FOUNDED: 1927 GRADUATE PROGRAM FOUNDED: 1931** DEGREES OFFERED: B.A., M.A., Ph.D. GRANTED 2013-2014: 27 B.A., 8 M.A., 2 Ph.D. STUDENTS IN RESIDENCE: 54 B.A., 27 M.A., 24 Ph.D. **CHAIR: Hong Jiang GRADUATE CHAIR: Qi Chen UNDERGRADUATE CHAIR: Matthew McGranaghan 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. Email: uhmgeog@hawaii.edu.

Internet: http://www.geography.hawaii.edu/

PROGRAMS AND RESEARCH FACILITIES: Programs of study lead to B.A., M.A., PhD. degrees in Geography; and a graduate certificate in Ocean Policy. The department cooperates in graduate interdisciplinary certificate programs in: Resource Management; Ecology, Evolution, and Conservation Biology; International Cultural Studies; and other areas. 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, landscape genetics, global environmental change science, cartography, GIS, and geo-environmental remote sensing.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: The University is on the semester system and 37 credits in geography are required for the major. This includes 16 credits of required general geography courses, 12 credits in one of three streams (human, environmental, or geographic technologies) and 9 additional credits in upper division courses. 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 (15 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 (at least two 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, terrestrial ecosystems
- Qi Chen, Ph.D., UC Berkeley, 2007, Associate 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 of the environment, perception of nature, environmental ideology and politics, ideas of nature in Chinese thought
- Reece M. Jones, Ph.D., Wisconsin at Madison, 2008, Associate Professor - political geography, borders, territory, sovereignty, South Asia
- Stacy Jorgensen, Ph.D., Georgia, 2002, Assistant Professor evolutionary biogeography, conservation biology, landscape and ecological genetics
- Mary G. McDonald, Ph.D., UC Berkeley, 1990, Associate Professor - geographical transformations, social theory, Japan
- Matthew McGranaghan, Ph.D., Buffalo, 1986, Associate Professor computer cartography, GIS, remote sensing, spatial cognition
- Camilo Mora, Ph.D., Windsor, 2004, Assistant Professor dynamics of marine populations, biodiversity in society and economic contexts
- Mary Mostafanezhad, Ph.D., Hawaii, 2011, Assistant Professor geography of consumption, cultural geography, volunteer tourism, Thailand
- 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 community-based ecology, 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
- Everett A. Wingert, Ph.D., Washington, 1973, Professor cartography, remote sensing

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

COOPERATING AND AFFILIATE GRADUATE FACULTY:

Henry Diaz, Ph.D., Colorado, 1985 — climate change

- Douglas Eisinger, Ph.D., Wales, 2005 air quality, environmental policy analysis
- Basil Gomez, D.Sc., University of Southampton, 2005 fluvial geomorphology and sediment transport
- Melissa Finucane, Ph.D., Western Australia, 1998 environmental and health risks, climate change risk perception
- Jefferson Fox, Ph.D., Wisconsin, 1983 community-based management, land cover change, spatial information technology
- Mark D. Merlin, Ph.D., Hawaii, 1979 biogeography, natural history of Hawaii
- James Maragos, Ph.D., Hawaii, 1972 tropical marine ecology and coral biogeography
- Mark D. Needham, Ph.D., Colorado State, 2006 recreation, naturebased tourism
- T. A. Siddiqi, Ph.D., Frankfurt-Main, 1966 energy technology, environmental policy

ILLINOIS

AUGUSTANA COLLEGE

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1949 DEGREES OFFERED: B.A. GRANTED 8/25/13-8/20/14: 13 Majors, 6 Minors STUDENTS IN RESIDENCE: 29 Majors, 13 Minors CHAIR: Jennifer Burnham DEPARTMENT ADMINISTRATIVE ASST: Gail Parsons

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: www.augustana.edu/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 21 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, business administration, education, English, geology, history, political science, and Spanish departments. Geography is one of the core departments in the college's environmental studies program with one of its faculty members serving as co-chair.

SPECIAL PROGRAMS: Department faculty participate in the college's multi-discipline fall term study programs in East Asia, Latin America, and Europe that involve 50 to 100 students. Austria, Ghana, Ireland, Nicaragua and Vietnam rotate as locations for other programs. A special geography summer field research course is held each year in the Upper Midwest, Pacific Northwest, or Great Plains/Southern Rockies 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. The long-term placements with the Corps of Engineers give advanced applied GIS experience to two or three students per year. 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 two boats for research and teaching on the Mississippi River: a 22-foot cabin skiff with bathymetric and sediment-surveying capabilities and a 29- foot passenger boat rated for 25-30 students that serves as a floating classroom. 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, Minnesota, 2012, Assistant Professor — urban, economic, conservation, Latin America

Matthew Fockler, Montana State (2014), Teaching Fellow — cultural, historical geography of the U.S., land management

DEPAUL UNIVERSITY

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1898 DEPARTMENT FOUNDED: 1948 DEGREES OFFERED: B.A., Certificate in GIS GRANTED 9/1/13-8/31/14: 21 B.A. and 22 GIS Certificates STUDENTS IN RESIDENCE: 46 B.A. and 35 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. Internet: http://las.depaul.edu/departments/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) Nature-Society Studies; (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 M.A. in Sustainable Urban Development which began in 2013-14. A close-knit Department of seven tenuretrack 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. 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 new Student Center at the Lincoln Park Campus, and the multipurpose DePaul Center in the Loop campus. The growing collection of the DePaul University libraries includes over 750,000 volumes, 303,000 microform volumes, over 8,900 current serial subscriptions, and varied on-line and audiovisual collections. Access via I-SHARE on-line allows students to identify and access materials from 39 other colleges and universities in Illinois. In addition, current students, faculty, and staff have access to more than 230 electronic databases and 47,056 electronic journals via the Web from home or office via the Libraries' Proxy Server. 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 Historical 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 of Geography provides both basic and advanced training in geographic information systems (GIS) and remote sensing. The Department has been instrumental in introducing GIS across the University curriculum. Today all students at every computer terminal connected to the University network can access GIS software. In addition, Departmental resources include the GIS Collaboratory, 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 Certificate Program in GIS, which was initiated in 1996. These efforts have been sustained by generous grants from the National Science Foundation and the U.S. Department of Agriculture, as well as the College of Liberal Arts and Sciences.

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 Bvld, Suite 9000, Chicago, Illinois 60604-2287.

FACULTY:

- 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
- Sungsoon (Julie) Hwang, Ph.D., SUNY at Buffalo, 2005, Associate Professor — GIS, transportation, housing
- 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
- Maureen Sioh, Ph.D., University of British Columbia, 2000, Associate Professor — economic geography, development, environment, Southeast Asia
- Heather Smith, MA, Columbia University (NY), 2000 urban planning

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, M.S. Natural Science, and minors in Broadcast Meteorology, Earth Science, Geography, Geographic Information Sciences, and Geology
- GRANTED 9/1/13 8/31/14: 9 in Geology; 25 in Geography
- **UNDERGRADUATE MAJORS: 72**

CHAIR: Michael W. Cornebise

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 an interdisciplinary minor in Geographic Information Sciences. In addition, an Honors Program is offered to Geology and Geography majors who maintain a 3.5 cumulative grade-point average (on a 4point 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 two interdisciplinary Master's programs: M.S. in Natural Sciences for Teachers (MSNS) and a 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. Both the B.S. in Sciences in biological 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, and sociology/anthropology.

The Master of Science for Natural Science Teachers (MSNS) is offered with a choice of six concentrations: Biology, Chemistry, Earth Science, General Science, Physical Science, and Physics. The intent of the program is to develop a comprehensive background in science for graduates to be able to teach any of the above disciplines. A teaching certificate is the prerequisite to participate in the MSNS degree program. 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.

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 programs include introductory and advanced Earth Science Field Experience for Teachers in various regions of the United States, in addition to weekend or week-long trips during semester breaks. The department also offers faculty-led study abroad programs to Ecuador, Ireland/Scotland, Germany/Poland/Czech Republic/Austria and Turkey/Greece/Egypt.

Students in the Department of Geology/Geography have available several classroom and research laboratories including the Special Projects Computer Lab, Geographic Information Sciences Lab, Sedimentation and Stratigraphy Lab, Paleontology Lab, and Microscopy Lab. The Special Projects and 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. 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 20,000), is primarily a residential campus with approximately 8,500 full-time students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Financial aid is available to qualified students through the Financial Aid Office. For information about programs in the Department of Geology and Geography, contact: Chair, Department of Geology/ Geography, Eastern Illinois University, Charleston, Illinois 61920. For information about admission requirements, contact: Office of Admissions, Eastern Illinois University, Charleston, Illinois 61920.

FACULTY

- Diane M. Burns, Ph.D., Wyoming, 2004, Associate Professor of Geology — sedimentology, stratigraphy
- Robert Cataneo, MSNS, Eastern Illinois, 2003, Instructor weather/climate
- Craig A. Chesner, Ph.D., Michigan Tech., 1988, Professor of Geology — petrology, volcanology
- Michael W. Cornebise, Ph.D., Tennessee, 2003, Chair, 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
- Belayet H. Khan, Ph.D., Pittsburgh, 1985, Associate Professor of Geography — meteorology, environmental studies, geomorphology
- Barry J. Kronenfeld, Ph.D., SUNY-Buffalo, 2004, Assistant 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 Assistant Professor of Geography — regional geomorphology, hydrology
- Betty E. Smith, Ph.D., SUNY-Buffalo, 1994, Professor of Geography — urban systems, geographic information systems, Latin America
- John P. Stimac, Ph.D., Oregon, 1996, Associate Professor of Geology — structural geology, tectonics
- David C. Viertel, Ph.D., Texas State, 2008, Associate Professor of Geography — remote sensing, urban environments

ELMHURST COLLEGE

DEPARTMENT OF GEOGRAPHY AND GEOSCIENCES DATE FOUNDED: 1964 DEGREES OFFERED: B.A., B.S., GRANTED 12/31/11-6/1/12: 15 Bachelors MAJORS/MINORS: 10 -15 CHAIR: Michael S. Lindberg DEPARTMENT ADMINISTRATIVE ASST: Barbara Kerber

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Office of Admission, Elmhurst College, 190 Prospect Ave., Elmhurst, Illinois 60126. Telephone (630) 617-3598. Fax (630) 617-3739. E-mail: michaell@elmhurst.edu Internet: www.elmhurst.edu/geography

PROGRAMS AND RESEARCH FACILITIES: Majors in the Department of Geography and Geosciences emphasize the interactions and relationships between people and their physical and cultural environments. The curriculum effectively links the social and natural sciences. Students may major in Geography or Geographic Information Systems (GIS). Minors in Physical and Human Geography are also available. Apart from students who pursue a single major in the department, other students, often majoring in business or one of the other social or natural sciences, find geography a valuable second field of study. The versatility of a double major or a minor in geography is attractive to many employers.

The Department of Geography and Geosciences actively participates in the interdisciplinary majors in urban studies, intercultural studies, logistics and transportation management, and in the January Term field experience program.

The Department of Geography and Geosciences is located on the third floor of Daniels Hall. The Department has three dedicated laboratories/project rooms. The GIS/Cartography and Remote Sensing Lab consists of 24 work stations with wireless capable laptop computers and ESRI GIS software. Also associated with this lab is the Douglas Carter Physical Geography Collection, a personal library of books donated by Mrs. Douglas Carter. The Computer and Research Project Lab has twelve Pentium based PC's with Internet accessibility. Standard geography related software used on these computers include ArcGIS Desktop, and various multimedia atlases. This lab is the home of a digital GIS data depository. It also serves as the student lounge/project work room. A multimedia-equipped Physical Geography Lecture/Lab is used for Introductory Physical Geography and Atmospheric Science instruction.

Located within Daniels Hall is the Department's Geography Alumni Memorial Weather Station, a gift from department alumni. The station has high quality weather sensing instruments on the roof of the building and a computer display in the main lobby. Data are archived for student research applications. The Department has received an equipment grant from on the Trimble Corporation consisting of a GPS unit and associated software.

The Elmhurst College GIS Certificate Program is under the auspices of the Elmhurst College School for Professional Studies (SPS), and is geared towards working professionals in the area of geographic information systems (GIS). The Program is entirely online and includes a total of five (5) courses: one in the fundamentals of geospatial technologies, one in GIS/Remote Sensing, one in the advanced use of GIS, and two in information systems including python programming and the implementation of geodatabases.

ACADEMIC PLAN, ADMISSION REQUIREMENTS AND FINANCIAL AID: Elmhurst College operates on a 4-1-4 academic calendar. There is a Fall term, a January term and a Spring term. To earn a Bachelor of Arts or Science Degree, a minimum of 32 courses are required (128 semester hours). A major in Geography requires a minimum of 9.5 courses while a minor requires 4 courses. A major in Geographic Information Systems (GIS) 10.5 courses, including a GIS internship. A minor in GIS requires five courses. Preparation necessary for a student to successfully complete the program of study at Elmhurst College is determined by a review of a student's previous academic record and supporting credentials. Emphasis is placed on how well a student has succeeded in recent or current educational experiences. The College administers a wide variety of institutional, state and federal financial aid programs, including scholarships, grants, loans and student employment opportunities. Elmhurst offers a number of merit scholarships to students who have outstanding academic achievement or have exhibited skill in a specialized area. Most financial aid, however, is awarded to those students demonstrating financial need. In recent years, approximately 65% of all full-time students, and 30% of eligible part-time students, have received financial assistance.

FACULTY:

- Michael S. Lindberg, Ph.D, Manitoba, 1994, Associate Professor, Department Chair — geographies of gender and sexuality, intercultural studies, maritime, political, economic,
- Carmi Neiger, M.S., Arch., University of Illinois Chicago, 1985, Assistant Professor — Spatial Analysis, Urban Geography, Ph.D. candidate, Northern Illinois University, GIS, Economic Geography, Geography of Religion

EMERITI PROFESSORS:

- Paul F. Ries, B.S., Carroll College; M.A., Ph.D., University of Georgia
- Kenneth R. Brehob, B.S., M.A., Ball State University; Ph.D., University of Oklahoma

ILLINOIS STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY-GEOLOGY DATE FOUNDED: 1857 DEGREES OFFERED: B.A., B.S. in Geography, B.S. in Geology, M.S. in Hydrogeology GRANTED 2014: Geography-24, Geology-18, Hydrogeology-8 MAJORS 2014: Geography-116, Geology-54, Hydrogeology-18 CHAIR: Eric Peterson ADMINISTRATIVE ASST: Karen Dunton

FOR CATALOG AND FURTHER INFORMATION: Department of Geography-Geology, 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 1,600,000 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:

- Amy Bloom, Ph.D., Utah, 2006, Instructional Assistant Professor climate and environmental change, paleobiogeography, quaternary environments
- Dagmar Budikova, Ph.D., Calgary, 2001, Associate Dean climatology, GIS, quantitative methods
- James E. Day, Ph.D., Iowa, 1988, Professor invertebrate paleontology, paleoecology
- Matthew Himley, Ph.D., Syracuse, 2010, Assistant Professor environmental, political, Latin America
- John C. Kostelnick, Ph.D., Kansas, 2006, Associate Professor GIS, cartography, cultural geography
- David H. Malone, Ph.D., Wisconsin, 1994, Professor structural geology, stratigraphy
- Eric Peterson, Ph.D., Missouri-Columbia, 2002, Professor hydrogeology, karst, modeling
- Catherine O'Reilly, Ph.D., Arizona, 2001, Assistant Professor limnology, biogeochemistry
- Reecia Orzeck, Ph.D., Syracuse, 2007, Assistant Professor human, cultural, Middle East
- R.J. Rowley, Ph.D., Kansas, 2009, Assistant Professor GIS, urban, human, cultural geography
- William Shields, MS., Illinois State, 2001, Administrative-Professional — general education, computation lab specialist
- Michael D. Sublett, Ph.D., Chicago, 1974, Professor historical, applied, Illinois geography, geography-earth science education
- Jonathan Thayn, Ph.D., Kansas, 2009, Assistant 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, Assistant 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
George Aspbury, Ph.D., Michigan, 1970
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
William D. Walters, Jr, Ph.D., Indiana, 1974

NORTHERN ILLINOIS UNIVERSITY

DEPARTMENT OF GEOGRAPHY

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, University Certificates in Homeland Security
- GRANTED: 9/1/13 8/31/14: 25 Bachelors, 8 Masters STUDENTS IN RESIDENCE: 100 Majors, 28 Masters, 13 Ph.D.

NOT IN RESIDENCE: 1 Masters

CHAIR: Andrew J. Krmenec

DEPARTMENT ADMINISTRATIVE ASST: Barbara Voga

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Coordinator of Graduate Studies, Department of Geography, 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 carry stipends up to \$13,060 for the academic year plus 12-month waiver of tuition (in-state \$9,430; outof-state \$18,855). 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 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, Associate 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 change
- 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
- 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
- Andrew J. Krmenec, Ph.D., Indiana, 1983, Professor spatial analysis, quantitative methods, economic
- Wei Luo, Ph.D., Washington University, 1995, Professor geomorphology (Earth and Mars), hydrology, GIS applications, Web-based technology in teaching
- Thomas J. Pingel, Ph.D., U.C. Santa Barbara, 2010, Assistant Professor — GIS, geovisualization, LIDAR, spatial cognition
- 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

Joshua K. Darr, M.S., SUNY-Albany, 2002 — atmospheric sciences

- Robert Fahey, Ph.D., University of Wisconsin-Madison, 2011 forest ecology
- Julie D. Jastrow, Ph.D., University of Illinois-Chicago, 1994 soil biology
- William P. Kleiman, M.S.Ed., Northern Illinois, 1986 restoration ecology
- Mary Njenga, Ph.D., University of Nairobi, 2013 urban food systems
- 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 Gilbert Sebenste, NIU Staff Meteorologist

VISITING SCHOLARS:

Yan Bing Wang, Capital Normal University

SOUTHERN ILLINOIS UNIVERSITY CARBONDALE

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL RESOURCES

DATE FOUNDED: 1936

- **GRADUATE PROGRAM FOUNDED: 1936**
- DEGREES OFFERED: B.S. 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; M.S. Geography and Environmental Resources (specializations in Environmental Sustainability, Geographic Information Science, and Climate and Water Resources); Graduate Certificate in Sustainability; Graduate Certificate in GIS; Ph.D. in Environmental Resources and Policy

GRANTED (1/1/14-12/31/14): 17 Bachelors, 9 Masters

STUDENTS IN RESIDENCE (1/1/14-12/31/14): 55 Majors, 21 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 hydroclimatoly, 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, Assistant Professor – fluvial geomorphology, river and floodplain management, natural hazards, hydraulic, geospatial, and hazard modeling
- Justin Schoof, Ph.D., Indiana University, 2004, Associate Professor and Chair — climate variability and change, climatological methods, applied climatology
- Silvia Secchi, Ph.D., Iowa State University, 2000, Associate Professor – natural resource economics, economic and environmental modeling

- Audrey Wagner, M.S., Southern Illinois University, 2011, Lecturer meteorology and climatology
- Guangxing Wang, Ph.D., University of Helsinki, Finland, 1996, Associate 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. and B.S. in Geography, M.S. in Geographical Studies DEGREES GRANTED 7/1/13-6/30/14: 24 Bachelors, 9 Masters STUDENTS IN RESIDENCE: 181 Majors, 60 Masters NOT IN RESIDENCE: 148 CHAIR: Gillian Acheson

DEPARTMENT SECRETARY: Cat Yurkovich

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Gillian Acheson, Chair, Department of Geography, Box 1459, Southern Illinois University Edwardsville, Edwardsville, Illinois 62026-1459. Telephone (618) 650-2090. Fax (618) 650-3591. E-mail: gacheso@siue.edu. Internet: www.siue.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 southwestern Illinois region and 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 Geographical Studies. 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 written examinations and a directed research problem.

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 12 full-time faculty, one of whom is jointly appointed with the Environmental Sciences program.
- Gillian Acheson, Ph.D., Texas A&M University, 2003, Associate Professor and Chair — geographical education, human geography, cultural landscape, population, social justice
- Stacey R. Brown-Amilian, Ph.D., Oklahoma State University, 2011, Assistant Professor — human geography, medical geography, GIS, quantitative methods
- Michael L. Grossman, Ph.D., University of Wisconsin, 2003, Associate Professor — physical geography, geomorphology, hydrology
- James Hanlon, Ph.D., University of Kentucky, 2008, Assistant 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 — 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 and Associate Dean, College of Arts and Sciences — cultural, philosophy/history of geography, development, geographic education
- Michael Shouse, Ph.D., University of Kentucky, 2014, Assistant Professor — biogeomorphology, biogeography, GIS, remote sensing
- Bin Zhou, Ph.D., University of Georgia, 1995, Professor economic and urban geography, 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 AT URBANA-CHAMPAIGN

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 9/1/12-8/31/13: 10 Bachelors, 7 Masters, 6 Ph.D.
- STUDENTS IN RESIDENCE: 41 Majors, 8 Masters, 28 Ph.D.

HEAD: Sara L. McLafferty

DEPARTMENT ADMINISTRATIVE ASST: Susan Etter

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Graduate Director, Department of Geography and Geographic Information Science, 255 Computing Applications Building, University of Illinois, 605 E. Springfield Ave., Champaign, Illinois 61820. Telephone: (217) 333-1880. E-mail: geograph@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 regional science, computational GIS and cyberinfrastructure, and applications of GIS to geographic problems; 2) River, Watershed and Landscape Dynamics concentrating on fluvial geomorphology, watershed hydrology, and landscape modeling; 3) Society, Space and Environments concentrating on urban geography, development geography, politics of the environment, transportation and mobilities, 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 in GIS program—The PSM combines scientific and professional training in GIS and Business to prepare students for careers with businesses that use and develop geospatial technologies. This professional program is held on the campus of University of Illinois at Urbana-Champaign. 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 sixteenmonths, consisting of three full-time semesters and a summer internship. Please note that no financial support is provided and that students may not hold assistantships or other tuition and fee waivergenerating 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 Regional Economics Applications Laboratory, a cooperative venture between the University of Illinois and the Federal Reserve Bank in Chicago, focusing on the development and use of analytical models for urban and regional forecasting and economic problem solving; 2) 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 cyberinfrastructurebased geospatial problem-solving environments and applications; 3) the Social Dimensions of Environmental Policy Initiative which aims to improve management of the earth's environmental through research on social and policy dimensions of sustainability. 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: Semester systems. Minimum standard for admission to the Masters 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, one-half time nine-month appointments for assistants carry a minimum stipend of about \$16,840 plus remission of tuition. Nearly all resident graduate students are supported by fellowships, scholarships, and assistantships.

FACULTY:

- Thomas J. Bassett, Ph.D., California-Berkeley, 1984, Professor African agrarian systems, political ecology, agriculture development and socio-cultural change, history of cartography
- 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 echohydraulics, impact of land use and climate change on streams, river and watershed conservation
- Jonathan Greenberg, Ph.D., California-Davis, 2004, Assistant Professor — remote sensing, landscape ecology, vegetationclimate interactions
- Brian J. Jefferson, Ph.D., New School for Social Research, 2013, Assistant Professor — urban geography, carceral geography and critical social theory
- 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 and Head 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 and Director, CyberInfrastructure and Geospatial Information Laboratory, 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 D. Frank, Ph.D., Utah, 1979, Associate Professor Emeritus — biophysical, remote sensing, geographic information systems, arid lands
- 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
- John Thompson, Ph.D., Stanford, 1958, Professor Emeritus cultural, historical, Latin America, wetlands drainage history
- Colin E. Thorn, Ph.D., Colorado, 1974, Professor Emeritus alpine and periglacial geomorphology, philosophy and theory of geomorphology

DEPARTMENTAL AFFILIATES:

- Andrew M. Bauer, Ph.D., U. Chicago, 2010, Assistant Professor political ecology, space/place/landscape, nature/culture, political anthropology, archaeological theory
- Bethany Cutts, Ph.D., Arizona State Univ., 2010, Assistant Professor — human dimensions of the environment, sustainable agriculture, and agroecology
- Paul F. Diehl, Ph.D., U. Michigan, 1983, Professor, Political Science — war and peace, international organizations, ethnic conflict
- Brian Dill, Ph.D., U. of Minnesota, 2007, Associate Professor development, political sociology, globalization, sustainability, renewable energy
- Zsusza 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

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
- Richard C. Berg, Ph.D., Illinois, 1979, Senior Geologist, Interim Director, Geologic Mapping Program, Illinois State Geological Survey — quaternary studies, groundwater protection, mapping techniques
- Adrian Bailey, Ph.D., Indiana, 1989, Professor, Bristol UK population, migration, economic, social geography
- Charles Ehlschlaeger, Ph.D., California Santa Barbara, 1998 environmental modeling
- Ulrike Gerhard, Ph.D., 2005, Universitat Wurzberg, Chair of Human Geography of North America, Heidelberg University — Urban developments and discourses, urban inequalities, global cities, comparative perspectives, interdisciplinary approaches, North American cities
- Donald Wade Jones, Ph.D., Chicago risk management, infrastructure productivity and benefit estimation, transportation demand and fatality forecasting
- Donald Luman, Ph.D., University of Illinois, 1978 energy-earth resources, environment, geologic mapping, hazards, water, wetlands, coastal energy
- James Westervelt, Ph.D., Illinois, 1996, Research Scientist, Construction Engineering Research Laboratory — ecological modeling, GIS, urban planning
- Derek Winstanley, Ph.D., Oxford, 1970, Illinois State Water Survey climatology, air quality, science and policy, water resources, exploration, industrial revolution

WESTERN ILLINOIS UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1917

GRADUATE PROGRAM FOUNDED: 1947

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

Meteorology, M.A. Geography

- GRANTED 7/1/14-5/16/15: 13 Bachelors, 3 Masters
- STUDENTS IN RESIDENCE: 85 Undergraduate, 14 Graduate

NOT IN RESIDENCE: 4 Masters

CHAIR: Samuel Thompson

DEPARTMENT ADMINISTRATIVE ASST: Deborah Lutz

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Samuel Thompson, Chair, Department of Geography, Western Illinois University, 1 University Cir., Macomb, Illinois 61455-1390. Telephone (309) 298-1648. Fax (309) 298-3003. E-mail: geography@wiu.edu. Internet: www.wiu.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES: The department offers three options within its M.A. program: thesis, applied project, and two papers. Each of these programs provides students with a high 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 two-paper option is for students who view the degree as a terminal degree. Students in all programs must submit a proposal for their final product (thesis, applied project or two papers)

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 and Meteorology as well as minors in Geography, Meteorology and GIS. The Geography degree includes emphases in either cultural or physical geography. 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 2.5 (on a 4-point scale), or a grade-point of at least 2.75 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 not required.

- 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, Associate 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
- Redina Herman, Ph.D., Illinois, 2003, Associate Professor Advanced meteorology
- Ranbir Kang, Ph.D., Oklahoma State, 2005, Assistant Professor Physical Geography, GIS
- Julie W. Lawless, Ph.D., University of Kansas, 2012, Assistant Professor — planning, policy, world regions
- Fuyuan Liang, Ph.D., Georgia 2008, Associate Professor Pleistocene geomorphology, physical, remote sensing
- Christopher D. Merrett, PhD., Iowa, 1994, Professor and Director, Illinois Institute for Rural Affairs — geographic thought, political geography, Canada and the United States
- Susan Romano, Ph.D., Southern Illinois University-Carbondale, 2006, Associate Professor — Joint appointment with Biological Sciences—GIS
- Christopher J. Sutton, Ph.D., Denver, 1995, Professor urban, cartography
- Samuel Thompson, Ph.D., Akron, 2001, Professor planning, population, Africa

BALL STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1965 DEGREES OFFERED: B.A., B.S., M.S. GRANTED 07/01/14 – 06/30/15: 33 Bachelors MAJORS: 158 Majors, 6 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. Internet: 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 comprehensive 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 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, each one encouraging students to develop analytical skills in their own particular area(s) of interest.

Option 1. Comprehensive Geography. This option is particularly attractive to students who desire a broad liberal arts background with emphasis on regional studies and geographic methodologies and who seek careers in education, government, or business at local, state, national, and international levels.

Option 2. Travel and Tourism. This option offers students broad knowledge, analytical skills, and practical experience that are beneficial for successful careers in the travel and tourism industry. This sequence of specialized courses addresses spatial, organizational, social, and economic aspects of travel and tourism growth and development, regions, and the interaction between the tourist and the destination.

Option 3. GIScience. This option 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 Geographic Information Systems (GIS).

Option 4. Meteorology and Climatology. This option is designed for students seeking careers in meteorology and climatology, or professions strongly connected to weather and climate. While developing a solid understanding of the theory of atmospheric behavior (dynamics and thermodynamics) is a principal objective of the program, we are also strongly focused on the application of that knowledge to solve problems in a variety of applied settings. Two separate tracks and a minor are offered to address a variety of intended career directions. The General Track is provided for students interested in positions where a general knowledge of operational meteorology and climatology is of value in satisfying primary task objectives. Examples include emergency management, environmental analysis, and transportation planning. The Professional Meteorologist Track has been designed to meet Federal Civil Service requirements (GS-1340) for employment with the National Weather Service, and to qualify students for the American Meteorological Society (AMS)

Certified Broadcast Meteorologist (CBM) title. The Minor in Meteorology and Climatology for Weathercasters provides students the backgrounds necessary to effectively communicate weather information to the public, in many cases through the broadcast media. Students that wish to pursue careers as broadcast meteorologists have the option to complete either the Professional Meteorologist Track, which qualifies them for the AMS CBM program, or the Minor in Meteorological and Climatology, that prepares them to meet National Weather Association (NWA) Broadcast Seal of Approval qualifications. A variety of extra-curricular activities in support of the Meteorology and Climatology option are available for both undergraduate and graduate students. These include the Ball State Storm Chase Team, the BSU Wx Challenge team, the Central Indiana Chapter of the National Weather Association, and participation in regional and national meteorology, climatology, and geography conferences.

The department also offers minors in 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, M.S., Ball State, 2003, Instructor physical geography, cultural geography and world regional geography
- Call, David, Ph.D., Syracuse University, 2007, Associate Professor weather and society, climatology, hazards and meteorology

- Jill Coleman, Ph.D., Ohio State, 2005, Associate Professor climatology, bioclimatology, quantitative methods
- Michael Hawkins, Ph.D., Louisiana State, 1999, Assistant Professor — travel & tourism, cultural, Latin America
- Nathan Hitchens, Ph.D., Purdue University, 2010, Instructor forecast evaluation and verification, climatology, and extreme weather
- Jerzy Jemiolo, Ph.D., Jagiellonian (Krakow, Poland), 1982, Associate Professor — tourism, transportation, cultural, Europe, Russia
- 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
- Gopalan Venugopal, Ph.D., Indiana State, 1985, Professor remote sensing, geographic information systems, urban, Asia
- Jason Yang, Ph.D., University of Rhode Island, 2003, Associate 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 STATE UNIVERSITY

DEPARTMENT OF EARTH AND ENVIRONMENTAL SYSTEMS

DATE FOUNDED: 1893

- **GRADUATE PROGRAM FOUNDED: 1963**
- DEGREES OFFERED: B.A. and B.S. in Earth and Environmental Sciences, Human and Environmental Systems, M.A. in Geography, M.S. in Earth and Quaternary Sciences, Ph.D. in Spatial and Earth Sciences, Minors are available in Geography, Geosciences, Environmental Sciences, Anthropology, Climatology, Sustainability, and GIS.

GRANTED 2014-2015: 5 Bachelors, 1 Masters, 0 Ph.D.

- STUDENTS IN RESIDENCE: 81 Majors , 13 Masters, 10 Ph.D.
- NOT IN RESIDENCE: 1 Masters, 2 Ph.D. CHAIRPERSON: C. Russell Stafford

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Earth and Environmental Systems, Indiana State University, 6th & Chestnut, Terre Haute, Indiana 47809. Telephone (812) 237-2444. Fax (812) 237-8029. E-mail: ISU-EES@mail.instate.edu, Web: http://www.indstate.edu/ees

PROGRAMS AND RESEARCH FACILITIES: The Department offers undergraduate students the opportunity to major in earth and environmental sciences (concentrations in geoscience or atmosphere and surface processes) and human and environmental systems (concentrations in geography, GIScience or anthropology). At the graduate level, the Department offers Masters of Arts degree in Geography, Master of Science in Earth and Quaternary Sciences; and Doctor of Philosophy degree in Spatial and Earth Sciences with concentrations in geography and earth sciences.

Exceptional opportunities exist at ISU in GIS and remote sensing applied to systematic and regional topics. General requirements for each specialty area and degree vary, and interested students should contact the Chairperson of the Department for more detailed information.

Research Facilities The Department of Earth and Environmental Systems is housed in contemporary quarters with space and excellent facilities for research and grant/contract work. There are at present a map library (290,000 flat maps) and 12 labs, including the Center for

Remote Sensing and Geographic Information Systems (GIS), Center for Urban and Environmental Change (CUEC), Climatology Laboratory (including the NOAA/NWS surface weather station), Archaeology and Quaternary Research Laboratory, dendrochronology laboratory, environmental geology laboratory. paleontology/paleocenography laboratory, geochemistry laboratory, osteology laboratory, sedimentology/geomorphology human laboratory, Hook Memorial Observatory, sample preparation rooms, and graduate office space. The Department owns five vehicles to assist with fieldwork and research.

Current research in physical geography includes climatology (cyclogenesis and low level wind maxima), biogeography, dendrochronology, and environmental modeling (land use/land cover modeling, habitat mapping).

Current research in human geography focuses on urban, regional, and global change. In recent years, faculty have investigated land conflict and change in Brazil, regional economic development policy, urban land use, the socio-spatial politics of globalization, and GIS and ethics.

The Center for Urban and Environmental Change (CUEC) focuses on studies of the causes, effects, and responses to environmental change in cities and urban/suburban areas, especially those in Indiana and the Midwest. Programs and activities relate to both the science and the management of urban environmental change, including policy, regulation, technology, impact adaptation, mitigation, and remediation.

FINANCIAL AID: Twelve undergraduate scholarships are available on a competitive basis. Graduate assistantships are awarded to qualified students. PhD teaching assistantship stipends range in value up to \$11,600 per academic year; MA stipends range in value up to \$9,100 per academic year. Students receiving stipends teach classes or labs, work part-time as assistants to the faculty, or render other services to the department. Before a stipend can be offered, a student must be admitted to the College of Graduate and Professional Studies. Scholarships are also available which include remission of tuition except service fees.

APPLYING: Requirements for admission include submission of GRE aptitude test scores (Verbal and Quantitative sections) and an undergraduate-level GPA of 3.0 or better or a graduate-level GPA of 3.25 on a 4.0 scale. Entering doctoral students should have a written master's thesis or should provide evidence of the ability to write original material.

FACULTY:

- Stephen Aldrich, PhD, Michigan State, 2009 Associate Professor environmental science, GIS
- Susan M. Berta, PhD, Oklahoma, 1986, Associate Professor geomorphology, physical geography, remote sensing
- Gregory D. Bierly, PhD, Michigan State, 1996 Professor and Director of University Honors Program — climatology, physical geography
- Sandra S. Brake, PhD, Colorado School of Mines, 1989, Professor environmental geology, geochemistry, geobiology, mineralogy, igneous petrology
- Kathleen M. Heath, PhD, Utah, 1999, Associate Professor evolutionary ecology, mating and parenting strategies, life history, collective action
- Jennifer C. Latimer, PhD, Indiana University, 2005, Associate Professor — sediment geochemistry, oceanography, paleoceanography, environmental geochemistry, biogeochemistry, medical geology
- Nancy J. Obermeyer, PhD, Chicago, 1987, Associate Professor GIS, urban, cultural
- Mohamed Elyassini, Ph.D, Kentucky, 1995, Associate Professor globalization, Middle East, human geography

- Shawn Phillips, Ph.D, SUNY Albany, 2001 Associate Professor biological anthropology, forensic anthropology
- Anthony Rathburn, Ph.D, Duke, 1992, Professor oceanography, paleontology
- James Speer, Ph.D, Tennessee, 2001, Professor biogeography, climatology, dendrochronology
- C. Russell Stafford, PhD, Arizona State, 1981, Professor geoarchaeology, GIS, Midwest Archaic societies
- Jeffery Stone, Ph.D. Nebraska 2005, Assistant Professor paleolimnology, diatoms, paleoecology
- Qihao Weng, Ph.D, Georgia, 1999, Professor remote sensing, GIS, environmental modeling

ADJUNCT FACULTY:

Karla Hansen-Speer, PhD, Washington University, 2006 archaeology, paleoethnobotany, dendrochronology, southwest US

EMERITI FACULTY:

William A. Dando, PhD, Minnesota Prodip Dutta, PhD, Indiana Steven Pontius, PhD, Minnesota

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 6/1/13-5/31/14: 21 Bachelors, 1 Masters, 1 Ph.D.
- STUDENTS IN RESIDENCE: 47 Majors, 7 Masters, 17 Ph.D.

NOT IN RESIDENCE: 2 M.A., 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.

PROGRAMS AND RESEARCH FACILITIES: The M.A., M.S., and Ph.D. programs are designed to development each students abilities to carry out significant research in geography. Graduate study within the department is comprised of five fields: climate, land and environmental change, food and agriculture, geographic information systems and remote sensing, globalization, development and justice, and water resources. Courses in theory, research design, and methods constitute the core of study for all advanced degrees.

Requirements for the M.A. and M.S. degrees include a set of core courses, a Master's thesis or two research papers, and a comprehensive examination. 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 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 Study of Institutions, Population and Environmental Change, the Population Institute for Research and Training, the Transportation Research Center, the Center for 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. An undergraduate major in geography, or a close equivalent, and a B average are required for admission to the M.A. or M.S. programs. A M.A. or M.S. in geography or the equivalent is 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 February 1.

FACULTY:

- Majed Akhter, Ph.D., University of Arizona, 2013, Assistant Professor
 Water law/policy, Political ecology of development, Agrarian political economy, Marxist geography and geopolitics, Modern Pakistan and South Asia
- Ishan Ashutosh, Ph.D., Syracuse University, 2010, Assistant Professor — Migration, Ethnicity, Urban geography
- Elizabeth Dunn, Ph.D., John Hopkins University, 1998, Associate Professor — Effects of large bureaucratic systems during periods of cataclysmic social change
- Tom Evans, Ph.D., University of North Carolina, Chapel Hill, 1998, Professor — Human-Environment Interactions, Agricultural Decision-making, Water Governance, GIS/Spatial Modeling
- Darren Ficklin, Ph.D., University of California, Davis, 2010, Assistant 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 Cultural Geography, Landscape, Food 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
- Justin Maxwell, Ph.D., University of North Carolina, Greensboro, 2012, Assistant 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
- 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
- Jeff 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
- Phaedra C. Pezzullo, Ph.D., University of North Carolina, Chapel Hill, 2002, Associate Professor — communication, environmental justice studies, tourist studies, social movement studies
- 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
- 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:

- Dennis Conway, Ph.D., University of Texas, Austin, 1976, Professor
 Development, Transnational migration, Migrationdevelopment relationships
- Charles E. Greer, Ph.D., University of Washington, 1975, Associate Professor — China, resource management
- 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 9/1/13-8/31/14: 7 Bachelors in Geography (4 B.S., 3 B.A.) MAJORS: 35 in Geography, 2 in Geology 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/geographymeteorology/

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, a B.S. in Geology (in conjunction with Indiana University Northwest), and minors in Geography, Meteorology, American Indian Studies, and GIS. The Department and the University emphasize close contacts between faculty and students. Students may 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 Department 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

- Ronald A. Janke, Ph.D., Minnesota, 1976, Professor geomorphology, Native Americans, historical, North America
- 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
- Adam Stepanek, M.S., Naval Postgraduate School, 2006, Lecturer aviation meteorology, sub seasonal prediction, severe weather
- 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 8/1/13-7/31/14: 27 Bachelors, 4 Masters, 6 Ph.D.
- STUDENTS IN RESIDENCE: 66 Majors, 11 Masters, 17 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. Internet: http://clas.uiowa.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES: The goal of our graduate program in geography is to prepare students to execute creative and productive research involving the development, use, and further elaboration of geographic methods and theories. In so doing, this program prepares 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, and 5) urban ecology. Often our investigations are team-based and occur 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. Students are encouraged 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. Active participation in research is a critical component of the graduate experience in the department. Faculty and graduate students frequently collaborate on research and students are encouraged to participate in regional and national professional meetings, seminars, reading groups, and a departmental colloquium that foster community and intellectual exchange.

The university and the city of Iowa City provide a stimulating social, cultural, and academic environment. Excellent bookstores, galleries, and the world-class Iowa Center for the Performing Arts 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-class 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. Members of the faculty maintain close working relations 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 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. Additional equipment includes GPS receivers, terrestrial LiDAR and hyperspectral imaging scanners, a UAV, 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 208 Calvin Hall.

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 Aptitude 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 in 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 either a portfolio review, an exam or an M.A. thesis. A two-year coursework M.A., including an M.A. with specialization in GIScience, is offered.

Ph.D. Degree Requirements: The Ph.D. is a four- to five-year, postbaccalaureate program. Students can enter the program directly from the B.A. or B.S. or with advanced standing corresponding to their previous graduate education. Competence in a specific area of geography, across the breadth of geography, and in geographical methods is demonstrated by the completion of an original research paper, passing 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 \$18,264 for the two semester academic year of 2015-16, plus a full tuition scholarship and healthcare benefits. External research grants also provide for research assistants.

The 2015-16 tuition and fees rate for in-state graduate students is \$9,693 for the academic year. Out-of-state students pay \$26,877. All half-time and quarter-time Teaching and Research Assistants are charged at in-state rates, and are provided with a tuition scholarship of \$8,396 for full registration for an academic year. 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, Assistant Professor health, disease ecology, landscape genetics, population
- 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
- George P. Malanson, Ph.D., UCLA, 1983, Coleman-Miller Professor — ecological modeling, biogeography, landscape ecology, 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
- R. Rajagopal, Ph.D., Michigan, 1973, Professor environmental measurements, methods, monitoring, modeling and management, information systems, regulation, policy
- Heather A. Sander, Ph.D., University of Minnesota, 2009, Assistant Professor — geographic information science, land use/land cover, environmental modeling, ecosystem services
- James D. Tamerius, Ph.D., University of Arizona, 2011, Assistant Professor — environmental determinants of health, infectious disease, climate
- *Eric Tate, Ph.D., South Carolina, 2011, Assistant Professor* hazards, vulnerability and resilience, uncertainty analysis

ADJUNCT FACULTY:

- Marian V. Muste, Ph.D., Iowa, 1995 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
- Peter Weyer, Ph.D., Iowa, 1998, Adjunct Assistant Professor water quality, chronic health effects, environmental epidemiology, environmental health policy

EMERITI FACULTY:

- James B. Lindberg, Ph.D., Wisconsin, 1963, Professor Emeritus economic, energy resources/use, geography in higher education
- 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
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 9/1/14-8/31/15: 17 Bachelors, 7 Masters STUDENTS IN RESIDENCE: 50 Majors, 18 Masters HEAD: Patrick Pease DEPARTMENT ADMINISTRATIVE ASST: Janette McCulley

FOR CATALOG AND FURTHER INFORMATION CONTACT: Dr. Patrick Pease, Head, Department of Geography, University of Northern Iowa, Cedar Falls, Iowa 50614-0406. Telephone (319) 273-2772. Fax (319) 273-7103. E-mail: patrick.pease@uni.edu. Internet: http://www.uni.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES: The Department offers both a BS in Geographic Information Science and a BA degree in Geography. There are three concentrations within the BA undergraduate geography major: Globalization and Regional Geography, Environmental Systems and Sustainability, and Planning and Development. 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 GIS, remote sensing, physical/environmental geography (geomorphology, soils), political, urban, transportation, economic, and geographic education. The Department is housed in the Innovative Teaching & Technology Center. The facilities include a 24-seat Computer Teaching Lab, GISc Applications Lab, Soils and Geomorphology Lab, Environmental Characterization & Analysis Lab, and large GIS 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 are useful and 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, Rocky Mountain West
- John DeGroote, MS, University of Wisconsin Stevens Point, Instructor and Director of GeoTREE Center — GIS, Geoinformatics
- Bingqing Liang, Ph.D., Indiana State University, 2008, Assistant Professor — GIS, remote sensing, Environmental
- David W. May, Ph.D., Wisconsin Madison, 1986, Professor geoarcheology, Holocene environmental changes, rivers
- Alex P. Oberle, Ph.D., Arizona State, 2005, Assistant 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 and Head geomorphology, aeolian, desert, sediment transport, field methods.
- Andrey Petrov, Ph.D., University of Toronto, 2008; Herzen University, 2006, Associate Professor — economic, GIS, population, Arctic
- *Tim R. Strauss, Ph.D., Washington, 1994, Associate Professor* transportation, economic, location analysis, GIS
- Kay E. Weller, Ph.D., Kansas State, 1993, Associate Professor geographic education, historical, cultural

ADJUNCT/EMERITI/AFFILIATED FACULTY:

Ramanathan Sugumaran, Ph.D., Edinburgh, 1999, Deere and Company

Donald D. Peterson, M.A., Northern Iowa, 1975, Adjunct Instructor

Chris Simonson, M.A., Northern Iowa, 2004, Adjunct Instructor

Kirk Stufflebeam, M.A., Northern Iowa, 1992, Adjunct Instructor

Mark D. Ecker, Ph.D., Connecticut, 1997, Associate Professor of Mathematics

C. Murray Austin, Ph.D., Pennsylvania, 1971, Professor Emeritus Jonathan J. Lu, Ph.D., Washington, 1971, Professor Emeritus James F. Fryman, Ph.D., North Carolina, 1981, Professor Emeritus Thomas Fogarty, Ph.D., Pennsylvania, 1978, 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: 91 undergraduates, 23 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 (36 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 a new College of STEM (Science, Technology, Engineering, and Math). Geosciences has recently joined departments of agriculture, applied technology, biology, chemistry, computer science, informatics, math, 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 13,000 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 an 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/). Graduateschool 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. Instate tuition is offered also to students who qualify for the Midwest Student Exchange Program, and residents of Arizona and Texas 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, Assistant 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, Associate Professor and Chair — meteorology, climatology, and physical geography
- Richard Lisichenko, Ph.D., Kansas State University, 1999, Associate 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
- Laura Wilson Brantley, Ph.D., University of Colorado, 2012, Assistant Professor and Chief Curator of Sternberg Museum of Natural History - paleontology
- Chunfu Zhang, Ph.D., Florida State University, 2011, Assistant Professor - geology, geochemistry

KANSAS STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY **DATE FOUNDED: 1946 GRADUATE PROGRAM FOUNDED: 1959** DEGREES OFFERED: B.A., B.S., M.A., Ph.D. GRANTED: 9/1/13-8/31/14: 31 Bachelors, 12 Masters, 4 Ph.D. STUDENTS IN RESIDENCE: 70 Majors, 10 Masters, 22

Ph.D.

NOT IN RESIDENCE: 6 Masters, 7 Ph.D. **HEAD: Charles W. Martin**

GRADUATE PROGRAM INFORMATION: Douglas Goodin, Department of Geography, 118 Seaton Hall, Kansas State University, Manhattan, KS 66506-2904. Telephone (785) 532-6727. Fax (785) E-mail: 532-7310. 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 GIScience, remote sensing and spatial modeling. 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 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. Geographic information science includes remote sensing, spatial modeling, Internet GIS, and geocomputational methods.

The rolling and tree-shaded university campus is located in Manhattan, pop. 50,000. 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:

- Kevin Blake, Ph.D., Arizona State, 1996, Professor culturalhistorical geography, landscape symbolism, mountain geography, nature-society relationships, American West
- Marcellus M. Caldas, Ph.D. Michigan State, 2008, D.Sc. University of Sao Paulo, 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
- John A. Harrington, Jr., Ph.D., Michigan State, 1980, Professor climatology, human dimensions of global change, GIScience, geography education, applied geography, water resources, biogeography, Great Plains
- Lisa M. Builer 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, Associate Professor and Director, GISSAL — water resources, biogeography, environmental modeling, GIS, remote sensing, computer mapping and visualization, biosecurity
- Max Lu, Ph.D., Indiana, 1996, Professor population and health geographies, regional development, spatial analysis and modeling, China
- Richard A. Marston, Ph. D., Oregon State, 1980, University Distinguished Professor — geomorphology, hydrology and water resources, glaciers, mountain geography
- Charles W. Martin, Ph.D., Kansas, 1990, Professor and Head geomorphology, fluvial systems, Great Plains, Germany
- Kendra K. McLauchlan, Ph.D., Minnesota, 2004, Associate Professor — biogeography, soils, environmental geography, paleoecology, North America
- Francesco Orsi, PhD., Trento (Italy), 2010, Assistant Professor spatial modeling, land use and ecosystem services, protected area management, sustainable transportation
- 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, migration, ethnic geography, historical geography, American Southwest, Mexico
- 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
- David R. Seamon, Ph.D., Clark, 1977, Professor (Architecture) sense of place, urban social
- David Vail, Ph.D., Kansas State, 2012, Assistant Professor (Special Collections) — agriculture, technology, and science in American West

EMERITI FACULTY:

Charles E. Bussing Karen De Bres Cole David E. Kromm H.L. Seyler William R. Siddall Stephen L. Stover

UNIVERSITY OF KANSAS

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1947

- **GRADUATE PROGRAM FOUNDED: 1958**
- DEGREES OFFERED: B.A., B.S., B.G.S., M.A., M.S., Ph.D.
- GRANTED 9/1/13-8/31/14: 24 Bachelors, 13 Masters, 8 Ph.D.
- STUDENTS IN RESIDENCE: 101 Majors, 16 M.A., 19 M.S., 35 Ph.D.

NOT IN RESIDENCE: 8 Masters, 9 Ph.D.

CHAIR: Nathaniel Brunsell

DEPARTMENT ADMINISTRATIVE ASST: Beverly M. Koerner

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Graduate Studies Committee, Department of Geography, 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-cartographyremote 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 magnetics. 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 welldeveloped 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
- J. Christopher Brown, Ph.D., UCLA, 1999, Professor political ecology, tropical environments, Latin America

- Nathaniel A.Brunsell, Ph.D., Utah State, 2003, Professor landatmosphere interactions, remote sensing, micrometeorology
- So-Min Cheong, Ph.D., Washington, 2001, Associate Professor economic, sustainable resources, East Asia
- Abel Chikanda, PhD., Western University, 2010, Assistant Professor migration and development, food security and informal economy, Africa
- Alexander C. Diener, PhD., Wisconsin, 2003, Associate Professor political, social, cultural, Central Eurasia
- Jerome E. Dobson, Ph.D., Tennessee, 1975, Professor geographical information science, remote sensing, cultural
- 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
- Daniel R. Hirmas, Ph.D., University of California, Riverside, 2008, Associate Professor — pedology, soil geomorphology, soil mineralogy
- Jay T. Johnson, Ph.D., University of Hawaii at Manoa, 2003, Associate Professor — cultural geography, comparative Indigenous Nations studies, post-colonalism
- William C. Johnson, Ph.D., Wisconsin, 1976, Professor Quaternary studies, geoarchaeology, environmental magnetism
- Ting Lei, Ph.D., UC-Santa Barbara, 2010, Assistant Professor GIS, remote sensing, and transportation
- Xingong Li, Ph.D., South Carolina, 2000, Associate Professor geographic information science, spatial analysis, GIS and remote sensing of hydrologic processes
- David B. Mechen, Ph.D., Washington, 2003, Associate 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
- David A. Rahn, Ph.D., Wyoming, 2008, Assistant Professor atmospheric science, mesoscale and synoptic meteorology
- James R. Shortridge, Ph.D., Kansas, 1972, Professor cultural, historical, United States
- Pamela L. Sullivan, Ph.D., Florida International University, 2011 ecohydrology, hydrogeology, aqueous geochemistry
- Donna F.Tucker, Ph.D., Colorado State, 1987, Associate Professor atmospheric science, modeling of mesoscale processes
- Cornelius J. van der Veen, Ph.D., University of Urecht (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:

- Steven R. Bozarth, Ph.D., Kansas, 1996, Adjunct Assistant Professor — paleoenvironmental reconstruction, phytolith analysis, landscape evolution
- Kelly Kindscher, Ph.D., Kansas, 1991, Courtesy Professor plant community ecology research
- Rolfe D. Mandel, Ph.D., Kansas, 1990, Courtesy Professor soils, geoarcheology, Quaternary sediments
- Valery J. Terwilliger, Ph.D., California, 1988, Adjunct Associate Professor — biogeography, geomorphology, geotechnical engineering

EMERITI FACULTY:

John P. Augelli, Ph.D. Harvard, 1951

- Leslie Dienes, Ph.D., Chicago, 1968
- George F. McCleary, Jr., Ph.D., Wisconsin, 1969
- Robert W. McColl, Ph.D., Washington, 1964
- Robert E. Nunley, Ph.D., Michigan, 1958
- Curtis J. Sorenson, Ph.D., Wisconsin, 1973
- William I. Woods, Ph.D., Wisconsin, 1986

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: 38 B.A/B.S. 8 M.A., 22 Ph.D. NOT IN RESIDENCE: 3 M.A, 11 Ph.D. CHAIR: Richard H. Schein (schein@uky.edu) ADMINISTRATIVE ASSISTANT: Lori Tyndall (l.tyndall@uky.edu) DIRECTOR OF GRADUATE STUDIES: Patricia Ehrkamp (p.ehrkamp@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 also 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 Information. 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 (\$14,375 for the year 2015-16), plus full tuition remission and health coverage. Fellowship support also is 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 — Political ecology, social-ecological resilience, gender, geographies of conservation and development, East Africa
- Stanley D. Brunn, Ph.D. Ohio State, 1966, Professor Emeritus Social and political geography, information and communication, North America, Europe, and Central Asia
- Jeremy Crampton, Ph.D. Penn State 1994, Associate Professor Critical cartography and GIS, new mapping technologies, theory
- Patricia Ehrkamp, Ph.D. University of Minnesota, 2002, Associate Professor and Director of Graduate Studies — Political, urban, feminist geography, immigration, citizenship, gender
- Carolyn Finney, Ph.D. Clark University, 2006, Assistant Professor Identity, representation, difference and place, race and environment, environmental humanities
- P.P. Karan, Ph.D. Indiana, 1956, Professor Development, multinational corporations, society-environment relationships, Asia/Pacific, Japan, South Asia
- Daehyun Kim, PhD. Texas A&M, 2009, Associate Professor Biogeography, spatial analysis, ecological simulation modeling, soil landform modeling
- Liang, Liang, Ph.D. University of Wisconsin-Milwaukee, 2009, Assistant Professor — Bioclimatology, landscape phenology, remote sensing, and spatial ecology
- 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 Phillips, Ph.D University of Louisville, 2013, Assistant Professor — Applied geography, urban planning, growth management, and geography of global equine centers
- 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, Associate Professor — Economic and urban geography, immigration, alternative forms of economic development, international finance, France, European Union, US
- Richard Schein, Ph.D. Syracuse, 1989, Professor and Chair 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
- 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. Georgia, 2000, Associate Professor Biogeography, biogeomorphology, scale theory, organismenvironment interactions
- 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 University, 1993, Associate Professor — Economic, political, and urban geography

- 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 — Information and economic geographies, urban technologies, critical GIS

GYULA PAUER CENTER FOR CARTOGRAPHY AND GIS:

- Jeff Levy, B.A. Kentucky, 2000, GIS Analyst GIS and applications in planning, transportation, and historical research
- Richard Gilbreath, M.A. Kentucky, 1995, Manager, Center for Cartography and Geographic Information — production cartography, computer cartography

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
- Theodore H. Grossardt, Ph.D. Kentucky 1999, Kentucky Transportation Center — Transportation, social theory, participatory planning
- 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 7/1/13-6/30/14: 16 Bachelors MAJORS: 93 CHAIR: Keith R. Mountain 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. For more information: 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, Geographic Information Science, and Global and Regional Analysis. The B.S. degree has a common core consisting of Global Environment, Power of Place, Introduction to Mapping, Quantitative Analysis, Research Methods, and Senior Thesis. Advanced specialization courses include Biogeography, Climatology, Geomorphology, Hydrology, Medical Geography, Remote Sensing, GIS, Advanced Planning, Transportation, Locational Analysis, Urban Population, Globalization, Computer Applications, and Urban Problems. Majors have either 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. A thesis is required.

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, Assistant Professor climate change, land cover change, hydrology/water resources, sustainability of physical systems
- Andrea Gaughan, Ph.D., Florida, Assistant 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
- Carol L. Hanchette, Ph.D., North Carolina, Chapel Hill, Associate Professor — medical geography, geographic information systems, globalization
- David A. Howarth, Ph.D., Ohio State, Professor climatology, short term climate variability, meteorology, urban climatology, geography education
- Keith R. Mountain, Ph.D., Ohio State, Associate Professor glaciology, climatology, geography education
- Wei Song, Ph.D., Ohio State, Associate Professor transportation and location analysis, urban and regional studies, GIS applications, quantitative methods; China and Asia
- Forrest R. Stevens, M.S., University of Florida, Instructor integrated modeling and quantitative spatial analyses, land systems science, remote sensing, rural lands and livelihoods
- Margath A. Walker, Ph.D., Kentucky, Assistant Professor urban geography, cultural impacts of globalization, cultural production, qualitative research methodology, border security and identities; Latin America
- Haifeng (Charlie) Zhang, Ph.D., South Carolina, Associate Professor — urban & social issues, race & ethnicity, 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 Emeritus James E. Conkin, Ph.D., Cincinnati, 1960, Professor Emeritus 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 Emeritus 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. Geoscience, M.S. Geoscience, M.A. Education/Geography Major GRANTED 9/1/13-8/31/14: 32 Bachelors, 11 Masters STUDENTS IN RESIDENCE: 200 Majors, 25 Masters NOT IN RESIDENCE: 5 Masters HEAD: David J. Keeling DEPARTMENT ADMINISTRATIVE ASST: Wendy Decroix

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. David J. Keeling, 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: david.keeling@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, Environment prediction); and Sustainable Development (Conservation, natural resource management, environmental education, sustainability, water resources, climate change); and Culture and Society (Society, material culture, regions, tourism and development, food and resources). The Department's research centers include the Kentucky Climate Center; Kentucky Mesonet; CHAOS group, Center for Cave and Karst Studies; Climate, Water, and Sustainability Center; Crystal Kinetics Group; Crawford Hydrology Lab, Applied Materials Institute; Reynolds Geophysical Laboratory; and the GeoHazards Group. Additional research facilities include an interdepartmental GIS laboratory, water resources laboratory, eyetracking lab, computer labs, and considerable geoscience field equipment.

UNDERGRADUATE: Professional B.S. programs in Geography and Environmental Studies, Meteorology, GIS, and Geology 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 America 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 custom select 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 to become candidates for the Ph.D. It requires a minimum of thirty semester hours of coursework, a thesis (or publishable research paper), and a proficiency in research technique. Program graduates serve in a variety of discipline-related positions around the country. Faculty members participate in research addressing water problems, climate and weather analysis, cave development, resource use, global development, environmental management, environmental education, and urban planning. In addition, field research by faculty and students is conducted continually in the local area, in several other states, and in China, Latin America, and Europe.

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
- John D. All, J.D., Ph.D., Arizona, 2002, Associate Professor Environment, biogeography, law and ethics, policy
- William Blackburn, M.S., Western Kentucky, 2003, Instructor Environment, Kentucky
- Jill Brown, M.S, Western Kentucky, 2002, Instructor Cultural and Physical Geography, Planning
- Kevin Cary, M.S., GISP, Western Kentucky, 2000, Instructor, GIS Center Director — GIS, spatial techniques
- Aaron Celestian, Ph.D., Stony Brook, 2006. Associate Professor Crystallography, Minerals and materials
- Jenna Cole, Ph.D. Stony Brook, 2003. Instructor Anthropology, geoscience, paleoclimate time scales
- Margaret Crowder, Ed.D. WKU, 2012, Instructor General geology, geohazards, education
- Scott Dobler, M.A., Bowling Green State, 1990, Instructor GIS, teacher education, climatology
- Joshua Durkee, Ph.D., Georgia, 2008, Associate Professor Meteorology, Climatology, Severe storm events
- Xingang Fan, Ph.D., Lanzhou, China, 1996, Assistant 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 Tectonics, Thermochronology, Structural Geology, Remote Sensing
- Gregory Goodrich, Ph.D., Arizona State, 2005, Associate Professor Synoptic climatology, remote sensing
- Margaret Gripshover, Ph.D., Tennessee, Knoxville, 1995, Associate Professor — Cultural Geography, US South, 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 Cave and karst, GIS,
- David J. Keeling, Ph.D., Oregon, 1992, Distinguished Professor of Geography, Graduate Coordinator, Department Head — Latin America, World Cities, transportation, methodology
- Rezaul Mahmood, Ph.D., Oklahoma, 1999, Professor Climatology, GIS, hydrology
- Michael T. May, Ph.D., Indiana, 1992, Professor Environmental geology, aqueous geochemistry
- Amy T. Nemon, M.S., Western Kentucky, 2007. Instructor Regional, Cultural, Sustainability
- Leslie North, Ph.D., South Florida, 2011. Assistant Professor Environmental education, water resources, sustainability, cave and karst, eye-tracking

- Jason Polk, Ph.D., South Florida, 2009. Assistant Professor Paleoclimate, water resources, geomorphology, cave and karst, isotope geochemistry.
- Fredrick D. Siewers, Ph.D., Illinois, 1995, Associate Professor Sedimentology, stratigraphy, paleontology
- Andrew Wulff, Ph.D., Massachusetts, 1999, Associate Professor Structural geology, mineralogy, geochemistry
- Jun Yan, Ph.D., Buffalo, 2004, Associate Professor GIS, transportation, planning, modeling

ACTIVE FACULTY EMERITUS:

Doral Glen Conner, M.A., Western Kentucky, 1976 Nicholas Crawford, Ph.D. Clark, 1977 Kenneth W. Kuehn, Ph.D., Penn State, 1982 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, MS, M.N.S., BA and MA in Anthropology, and PhD with a concentration in Geography or Anthropology GRANTED 7/1/013 – 6/30/14: 10 Bachelors, 5 Masters, 6 PhD (Geography only) STUDENTS IN RESIDENCE: 28 Majors, 17 Masters, 53 PhD (Geography only) 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: Geography at LSU explores the environmental and spatial relations of nature and culture through field, archival, qualitative, and quantitative research. As a bidisciplinary department of geography and anthropology, the Department offers six degree programs. Bachelor's programs provide the full range of 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, human geography, mapping sciences) and a Concentration in Anthropology.

Inquiry focuses on: *Physical Geography* - synoptic climatology, hydroclimatology, palioclimatology, hydrology, and fluvial and coastal geomorphology and resources; *Human Geography* - cultural, cultural ecology, regional economic development, historical, settlement, and environmental; *Mapping Sciences* - 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 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 mapping sciences concentration is supported by two computer mapping sciences laboratories. Facilities for research include laboratories of geomorphology, material culture, palioclimatology, 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 \$11,000 - Masters and \$12,000 - PhD for nine months. Pruitt assistantships start higher. Regents (\$12-20,000) 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 Fund (http://www.ga.lsu.edu/).

FULL-TIME FACULTY:

- John M. Anderson, M.L.I.S., 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
- Mary Jill Brody, PhD, Washington, 1982, Professor linguistics, discourse analysis, anthropology, Mayan languages
- Juliet K. Brophy, PhD Texas A&M U 2011, Assistant Professor hominin evolution, craniodental morphometric analyses, paleoenvironmental reconstruction, Elliptical Fourier Function Analyses, taphonomy, southern Africa
- David Chicoine, PhD, U. of East Anglia, 2007, Associate Professor archaeology; coastal Peru; ancient political systems; early urbanism; interactions; ceramics; 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
- 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 — 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, Asst Professor-Research, Interim Director FACES Lab — physical and forensic anthropology
- Kathe Managan, PhD, New York University, 2004, Assistant Professor — sociocultural and linguistic anthropology; language and media, ideologies of language, voluntary organizations, performance, transnationalism; Caribbean, Louisiana and African diaspora
- 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, Professor cultural, historical, cultural ecology, history of geography, Latin America, American South
- Heather McKillop, PhD, California-Santa Barbara, 1987, Doris Z. Stone Latin American Studies Professor — coastal and underwater archaeology, Maya, Belize
- Shelley Xuelian Meng, PhD, Texas State Univ, San Marcos, 2010, Assistant Professor — Land-cover/land-use dynamics, urban remote sensing, GIS, feature extraction and 3D visualization, IiDAR for urban and forest applications
- Steven Namikas, PhD, 1999, Southern California, Associate Professor — coastal and aeolian geomorphology, sediment transport, environmental monitoring and modeling
- Micha Rahder, PhD, 2014, UC Santa Cruz, Assistant Professor science and technology studies, environmental anthropology, tropical forest conservation, political ecology, more-than-human worlds
- Helen Regis, PhD, Tulane, 1997, Associate Professor cities, performance, public space, race, anthropology, Africa and Diaspora
- Kevin Robbins, PhD, North Carolina State, 1987, Associate Professor, Director of the Southern Regional Climate Center agricultural climatology
- Robert Rohli, PhD, Louisiana State, 1995, Professor climatology, applied meteorology, water resources
- Luigi Romolo, PhD, Saskatchewan, 2006, Assistant Professor-Research — physical, synoptic climatology, hydrology
- David Sathiaraj, PhD, Louisiana State, 2013, Asst Professor-Research/Assoc Director SRCC — Big Data Analytics for Geosciences, Spatiotemporal Data Mining, Climate Infomatics, data Science and Engr.
- Rebecca Saunders, PhD, Florida, 1992, Associate Professor and Associate Curator of Anthropology, Museum of Natural Science — contact period studies, southeastern U.S. prehistory pottery analysis
- Andrew Sluyter, PhD, Texas, 1995, Associate Professor historical, cultural and political ecology; place and landscape; social/natural theory; Latin American and the Caribbean
- 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, Assistant 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, planning), GIS, quantitative methods; China, S.E. Asia, U.S.
- Teresa Wilson, PhD, Arkansas 2014, Assistant Professor-Research FACES Lab, forensic anthropology and bioarchaeology

ADJUNCT FACULTY:

- 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
- David P. Brown PhD, Arizona, 2004, Regional Director, NOAA Climate variability, global change, spatial analysis; North America
- Diane M. Greenlee, PhD, Washington, 2002, Assistant Professor Poverty Point Station Archaeologist
- Robbie B. Mann, PhD, SUNY Birmingham, Assistant Professor, St. Cloud U, Historical Archaeology

- Charles McGimsey, PhD, S Illinois U Carbondale, 1995, State Archaeologist — Southeastern archaeology
- Phil O'Keefe, PdD, London University, 1974 Professor political, economic and historical geography
- Mark A. Rees, PhD, Oklahoma, 2001, Professor archaeology
- Charles Wayne Smith, PhD, Texas A&M, 1995, Associate Professor, Texas A&M — historical archaeology, artifact conservation, visual anthropology, digital imaging
- Peter Sutherland, PhD, Oxford, 1999, Instructor, Department of Religious Studies — Cultural anthropology, religion, nationalism, postcoloniality, S. Asia, Black Atlantic
- Imam Xieralie, PhD, 2006, Cincinatti, Associate Professor GIS, health geography, public policy

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
- H.J. Walker, PhD, Louisiana State, 1960, Boyd Professor Emeritus alluvial and coastal morphology, geomorphology, Arctic

AFFILIATED FACULTY AND STAFF:

- Maria Allaire, MA, Louisiana State, 2002, Research Associate FACES Lab, forensic anthropology
- Luke Driskell, Computer Analyst
- Larry Livaudais, MFA, University of Florida 1996, Imaging Specialist/Research Associate — FACES Lab, facial reconstruction
- Kyle Brehe, MS, S. Dakota School of Mines, 2007, Research Associate and Services Climatologist — climatology
- John Grymes, MS, Delaware, 1986, Professional in Residence climatology
- Nicole Klein, MA LSU 2014, Research Associate FACES Lab, forensic and physical anthropology, taphonomy, human variations, paleopathology
- Yixin Luo, PhD, Louisiana State University Systems Manager, Systems engineer/HPC

MAINE

UNIVERSITY OF SOUTHERN MAINE

DEPARTMENT OF GEOGRAPHY-ANTHROPOLOGY DATE FOUNDED: 1971 DEGREES OFFERED: B.A. GRANTED 9/1/14-8/31/15: 15 Bachelors MAJORS: 70 CHAIR: Firooza Pavri DEPARTMENT ADMINISTRATIVE ASST: Jennifer Camire

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; (Portland, College of Arts & Sciences) (207) 780-4498. Internet: www.usm.maine.edu/gany

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography-Anthropology is an interdisciplinary department where students learn to apply two disciplinary perspectives to the study of human-environmental interrelationships. The department offers a 36-39 credit hour joint undergraduate degree in geography- anthropology wherein the student may concentrate in any one of three tracks: Sustainable Cultures & Communities; Cultural & Natural Heritage Management; Applied GIS and Geospatial Analysis. Students are able to intern in the junior or senior year or to complete a field school, and the major thrust of the department is in developing and building applied skills. Minors are available in anthropology, archaeology, geography, planning and GIS, and tourism and community development. Students can also earn a 12-14 credit Certificate in Applied GIS.

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 anthropic geomorphology, political ecology, geographic information sciences
- 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
- Kreg T. Ettenger, Ph.D., Syracuse, 2004, Associate Professor environmental anthropology, indigenous peoples, development, northern Canada
- Nathan D. Hamilton, Ph.D., Pittsburgh, 1985, Associate Professor Northeast prehistory, Andean Peru prehistory, maritime adaptation, quantitative methods
- Tracy Michaud-Stutzman, Ph.D., Pittsburgh, Lecturer Cultural anthropology, community development, cultural tourism
- Firooza Pavri, Ph.D., Ohio State University, 1999, Professor human-environment interactions, landscape change, South Asia, remote sensing/GIS
- Lydia A. Savage, Ph.D., Clark, 1996, Professor social geography, urban geography, gender issues, labor unions

AFFILIATED:

Vinton Valentine, Ph.D., University of Delaware, 2003, Director of GIS

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
- Robert French, M.A. Clark, 1972, Associate Professor cultural geography, New England
- 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 9/1/13-8/31/14 21 Bachelors MAJORS: 75 CHAIR: Fritz C. Kessler 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 4266. Fax (301) 687-4495. E-mail: fkessler@frostburg.edu. Internet: www.frostburg.edu/dept/geog/.

PROGRAMS AND RESEARCH FACILITIES: Programs available are a major in Geography with concentrations in Mapping Sciences, Global Systems Analysis, Climate System Science, a major in Earth Science with an Environmental Science concentration and a Teaching Certification option, a major in Environmental Analysis and Planning, and a major in Urban and Regional 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 58 workstations, three 42" plotters, one 60" plotter, one 42" scanner, and 5 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, Assistant 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

- 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
- Fritz C. Kessler, Ph.D., Kansas, 1999, Professor cartography, geographical visualization, spatial transformations, cartographic design
- Francis L. Precht, Ph.D., Georgia, 1989, GISP, Professor biogeography, GIScience, conservation, geography of alcohol
- Matthew E. Ramspott, 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, Assistant 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

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

EMERITI:

- 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 and B.S. in Earth Science; M.S. in GIS Management

- GRANTED 9/1/13-8/31/14: 33 Bachelors, 8 Masters
- MAJORS: 102 Geography, 35 Earth Science, 15 Masters CHAIR: Brent R. Skeeter

PROGRAM MANAGEMENT SPECIALIST: Jennifer Gordy

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: brskeeter@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 six tracks in the undergraduate Geography major: Atmospheric Science, Environmental/Land Use Planning, Geographic Information Science, Human Geography, Physical Geography, and General Geography. The Department also offers a major in Earth Science, including a track in Secondary Education. 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 42 XP workstations, color and laser printers, plotters, scanners, and digitizing tablets. We have site licenses for ESRI and Manifold GIS products and have a variety of digital image processing and cartographic drawing software. The Department has laboratories dedicated to Physical Geography 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 and the Geographic Society 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, new cohorts begins each June with application deadline in February. Application must be made to both SU and to the Department of Geography and Geosciences. See website (above) for details and admission forms.

FACULTY:

Amal K. Ali, Ph.D., Florida State, 2002, Associate 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
- Xingzhi Mara Chen, Ph.D., Iowa, 1992, Professor remote sensing, environmental geology, GIS, geosciences education
- Mark de Socio, Ph.D., Cincinnati, 2005, Assosciate Professor economic geography, political geography, regional economic development, business-state relations
- Michael Folkoff, Ph.D., Georgia, 1983, Professor soils, hydrology, geomorphology, mapping science
- Daniel W. Harris, Ph.D, University of Maryland, 2012, Assistant Professor — physical, geographic education, GIS
- Arthur J. Lembo, Jr., Ph.D., SUNY College of Env. Sci. & Forestry, 1997, Associate Professor — GIS, spatial modeling, extreme event monitoring, cartography, mapping science, quantitative methods
- Darren B. Parnell, Ph.D., South Carolina, 2005, Associate Professor — climatology, meteorology, quantitative methods

- Michael S. Scott, Ph.D., South Carolina, 1998, Professor GIS, environmental hazards, cartography
- Brent R. Skeeter, Ph.D., Nebraska-Lincoln, 1988, Professor and Chair — climatology, meteorology, research methods
- Brent J. Zaprowski, Ph.D., Lehigh, 2001, Professor geomorphology, coastal processes, sediment analysis, geoscience education

New Faculty:

Stuart Hamilton, Ph.D, University of Southern Mississippi, 2012, Assistant Professor — GIS, Remote Sensing, Land Cover Change

TOWSON UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL PLANNING DATE FOUNDED: 1955 GRADUATE PROGRAM

FOUNDED: 1970

DEGREES OFFERED: B.A., B.S., B.S. Ed., M.A., Combined B.A or B.S / M.A.

GRANTED 9/1/13-8/31/14 28 Bachelors, 6 Masters STUDENTS IN RESIDENCE: 133 Majors

NOT IN RESIDENCE: 27 Masters

CHAIR: Virginia Thompson (vthompson@towson.edu) GRADUATE COORDINATOR: Charles Schmitz

(cschmitz@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: geography@towson.edu.

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE: Towson University offers a major and a minor in Geography and Environmental Planning, a minor in Geographic Information Sciences, a minor in Meteorology, and a major in Geography and Land Surveying in partnership with the Community College of Baltimore County-Catonsville. In addition, the department offers a combined bachelor's / master's program for academically qualified students that enables them to complete both degrees in fiveyears. 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, a remote weather station serving the university and linked to the National Weather Service, and the Geospatial Research and Education Laboratory, the latter being dedicated to student and faculty research, educational outreach, and service learning. In June 2011 the department moved into a new College of Liberal Arts complex on campus. 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. We are committed to making the academic experience as enjoyable as possible for our students, while assuring that the learning process in as complete as possible. To this end the Department encourages students to consult with their advisors on a periodic basis. In support of the quest for academic excellence, outstanding student papers are published in the Department's Papers in Geography and a departmental lecture series - "What Matters"- is offered each year.

GRADUATE: 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, and a reading knowledge of a modern foreign language or quantitative competency. Two major tracks are available in the program: I. Geography and II. Planning. 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..

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: UNDERGRADUATE: 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.townson.edu/fi naid/). GRADUATE: 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
- Sya Buryn Kedzior, Ph.D. University of Kentucky, 2011, Assistant Professor — Pollution knowledge and hydropolitics 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
- Wayne L. McKim, Ph.D., Northwestern, 1974, Professor Africa, cultural, political
- 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 Environmental, biogeography, GIS
- Charles Schmitz, Ph.D., Berkeley, 1997, Professor 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, Associate Professor Eurasia, Political Ecology, Resource Management
- Paporn Thebpanya, Ph.D., Georgia, 2003, Associate Professor Cartography/geographic visualization, GIS, remote sensing
- Virginia Thompson, Ph.D., Oklahoma, 1995, Associate Professor and Chair — Urban, social, medical 79

PART-TIME FACULTY:

Douglas Adams, M.A. - GIS Database Design

D. Brett Collins, M.A. — Human Geography Karna Couch, M.A. — Physical, Regional, International Affairs Charles, L. Condurge, M.B.C.B. — Transportation, pla

Charles L. Goodman, M.R.C.P. — Transportation planning, Comprehensive Planning

Douglas Herman, Ph.D., U of Hawaii, 1995 — Pacific Rim, Cultural Jonathan Lesh, M.A. — Physical, Human, Geography of Maryland, Urban Systems

Jeremy Monn, M.A. — Map Interpretation

Schmidbauer

Henry L. Schupple, Jr., M.A. — World Regional, Physical Alireza Shahvari, Ph.D. – Physical Geography

UNIVERSITY OF MARYLAND BALTIMORE COUNTY (UMBC)

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL SYSTEMS DATE FOUNDED: 1967 GRADUATE PROGRAM FOUNDED: 2008 DEGREES OFFERED: B. A., B. S., a joint Bachelor/Master Degree, M.S., Professional Studies Certificate in GIS, Masters of Professional Studies (M.P.S.) in GIS, Ph.D. GRANTED 1/1/11-12/31/11: 85 Bachelors MAJORS: 320 Majors, 56 Masters, 16 Ph.D Interim CHAIR: Matthew Baker DEPARTMENT OFFICE MANAGER: Robin

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography and Environmental Systems, University of Maryland Baltimore County, 1000 Hilltop Circle, Baltimore, Maryland 21250. Telephone (410) 455-2002. Fax (410) 455-1056. Internet: www.umbc.edu/ges.

PROGRAMS AND RESEARCH FACILITIES: The department offers B.A. and B.S. degrees in geography, a B.S. in environmental science, a B.A. in environmental studies, 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 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 students 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 studentdesigned 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 (UMBC was the recipient of a NSF-funded IGERT (Integrative Graduate Education, Research and Training) grant focused on Water in the Urban Environment that ended in 2010).. 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 between 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 labs: a GIS/Remote Sensing lab with a Windows 7 network, currently offering 33 workstations and related peripheral devices with access to the full range of ESRI and ERDAS software along with selected other packages; the cartography instruction lab has 17 workstations equipped with the capability of producing the highest professional quality graphics; 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 specialized GIS and visualization laboratories, 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 BA in geography requires a minimum of 49 credit hours, the B.S. in geography has 62 credits required, the B.S. in environmental science requires 67 credit hours, and the B.A. in environmental studies has a 57 hour course requirement. 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 (www.umbc.edu/ges).

FACULTY:

- Dena Aufseeser, Ph.D., University of Washington, 2012, Assistant Professor — Critical Poverty Studies, urban change, international development
- Matt Baker, Ph.D., University of Michigan, 2002, Associate Professor — Ecosystems ecology, landscape ecology, quantitative methods
- Sari J. Bennett, Ph.D., University of Illinois at Urbana-Champaign, 1977, Clinical Associate Professor and Director, Maryland Geographic Alliance — Economic geography, geographic education
- 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 — Freshwater biology
- Erle C. Ellis, Ph.D., Cornell, 1990, Professor Biogeochemistry, landscape ecology, managed ecosystems
- Matt 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, Assistant 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
- Andrew J. Miller, Ph.D., Johns Hopkins, 1983, Professor Geomorphology, hydrology, water resources

- Eugene (Sandy) Parker, Ph.D., University of Colorado, 1981, Associate Professor — Environmental history and conservation, cultural ecology, public lands
- 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

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:

- 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

UNIVERSITY OF MARYLAND, COLLEGE PARK

DEPARTMENT OF GEOGRAPHICAL SCIENCES DATE FOUNDED: 1942

GRADUATE PROGRAM FOUNDED: 1942

DEGREES OFFERED: B.S., Masters of Professional

Studies in GIS, Ph.D. GRANTED SPRING 2014: 71 Bachelors, 5 Ph.D., 34 Masters of Professional Studies in GIS, 1 Graduate Certificate in GIS.

STUDENTS: 200 Majors, 95 M.P.S./GIS, 80 Ph.D.

CHAIR: Christopher Justice

DIRECTOR OF ADMINISTRATION: Vivre Bell

GRADUATE APPLICATION COORDINATOR: Rachel Berndtson

GRADUATE DIRECTOR: Shunlin Liang

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 SPECIALIZATIONS: Specific research specializations represented by the faculty include:

Human Dimensions of Global Change: The integration of social and physical systems in the study of global change with particular emphasis on society and sustainability. Examination of the role of demographic, social, cultural, and economic factors in global change.

Geospatial Information Sciences: Observation, processing, and analysis of geographic data. Specifically remote sensing, geographic information systems, digital cartography, spatial analysis, and numerical modeling. Particular emphasis on satellite and airborne remote sensing (including optical and microwave systems), regional to global scale data systems, scaling theory, and spatial variance. Principal attention given to applications in human dimensions and environmental systems as noted above.

Land Cover-Land Use Change: Studies the key interface between human and natural systems; Global Forest Monitoring using remote sensing; Mapping of global urban extent; Fire monitoring and modeling using remote sensing; and Global agriculture production monitoring.

Carbon, Vegetation Dynamics and Landscape-Scale Processes: Studies the monitoring and modeling of global vegetation dynamics and carbon; Modeling the impacts of major disturbances on the Earth's coupled carbon-climate system; Synthesis of forest growth, responses to wildfires and carbon storage for Russian forests; Carbon modeling of Boreal peatland systems; a framework for high resolution estimation of terrestrial carbon.

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. То online, apply to go www.geog.umd.edu/landing/undergraduate or e-mail geogadvise@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 a Minor in Geographic Information Science (GIS). This Minor is designed to give undergraduate students from other majors the technical skills needed to acquire, manage, and analyze geographic data. 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 geography. In addition, the Department offers a Master of Professional Studies (MPS) degree in Geospatial Information Sciences, http://www.geog.umd.edu/gis/ as well as a graduate certificate in GIS. Admission to the Graduate program does not require prior geography studies. Students in related physical and social sciences are encouraged to apply. Closing date for applications is January 15 for Fall admissions for the PhD program and July 31 for the MPS/Grad Certificate in GIS programs. Full details of University graduate regulations can be found in The Graduate Catalog, available at http://www.gradschool.umd.edu/catalog/programs/geog.htm. Details of the Geography graduate degree requirements are regularly updated and available at www.geog.umd.edu.

The MA Program: Beginning Fall 2011, the MA program was phased out in favor a PhD-only program.

The PhD Program: Admission to PhD program requires sponsorship by at least two Department Faculty members as well meeting the admission requirements: cumulative undergraduate GPA 0f 3.3, GRE verbal 600 and good quantitative score (650 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. Course of study is designed by the PhD student in consultation with their advisor and Doctoral Student Advisory Committee (DSAC). For students entering with a masters' degree, the introduction to geography sequence (6 cr.) (if not taken in a prior MA program), a research tutorial course (3 cr.), a quantitative or qualitative methods course (3 cr.), and attendance at departmental seminars (3 cr.) are required, and, In addition, courses of study required or recommended by the DSAC as well as courses of interest to the PhD student, dissertation proposal defense, a minimum of 12 dissertation credits after advancement to candidacy, and dissertation. For students entering the PhD with a bachelors' degree only, additional course work comparable to the former MA program will also be required.

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, 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: http://www.geog.umd.edu/gis/.

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 \$ 19,183 plus full tuition remission and an option for health insurance, and goes to \$ 20,633 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) 405-8085; email, rberndts@umd.edu; or the Graduate Director, Dr. Shunlin Liang: phone, (301) 405-4556; sliang@umd.edu.For information on the MPS GIS program go to http://www.geog.umd.edu/gis/.

RESEARCH FACILITIES AND PROGRAMS: The University of Maryland, Department of Geographical Sciences maintains one of the most active externally funded 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 numerous PhD and Masters-level research faculty in residence. The Department is housed in over 25,000 sq. ft. on the main College Park campus and 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.

Current major externally funded research activities include participation in: NASA Earth Observing System (EOS), the NASA DESDynI, The North American Carbon Program, NASA/USDA global agricultural monitoring, the NASA-funded Global Land Cover Facility in association with the University's Institute for Advanced Computer Studies (UMIACS), the USAID Central Africa Regional Project for the Environment (CARPE), and the USGS Landsat Science Team. The Department has recently developed a Center for GIS as well, which will be completed in 2015 (website is being built). Please contact the Center Director, Dr. Paul Torrens, for additional information (ptorrens@umd.edu). Other funded projects include studying regional to global scale land cover patterns, tropical deforestation, fire and the environment, NOAA global climatemodeling and spatial aspects of biodiversity. Graduate students find this research environment a rich source of ideas for research papers and dissertation studies, as well as providing opportunities to join these projects as paid (including tuition) research assistants. This experience often leads to openings for employment on completion of their studies.

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.

FACULTY:

- Giovanni Baiocchi*, Ph.D., Durham University, Associate Professor — environmental and ecological economics, computational economics
- Varaprasad Bandaru, Ph.D., University of Delaware, 2009, Associate Research Professor — geospatial modeling of ag 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 ag monitoring at national and global scales

- Molly Brown, Ph.D., U. of Maryland, 2002, Research Associate Professor — remote sensing, ag insurance programs in Africa, early warning systems for hazards, forest resources
- Louise Chini, Ph.D., Cornell, 2003, Research Assistant Professor global land-use change, coupled human-natural systems, Earth system science
- Martin Claverie, Ph.D., University Paul Sabatier (Toulouse III), Research Associate — remote sensing of biosphere and modelisation
- 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 — ag and supporting ecosystem services, vegetation fire and land cover dynamics, remote sensing
- Ralph O. Dubayah,* Ph.D., UC Santa Barbara, 1991, Professor and Associate Chair — climatology, remote sensing, spatial analysis
- Evan A. Ellicott, Ph.D., University of Maryland, 2009, Research Assistant Professor — land cover and land use change, fire ecology, remote sensing
- Allen B. Eney, M.A., University of Maryland, 1985, Lecturer Maryland and the Chesapeake, human dimensions
- 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., Research Assistant Professor surface albedo, atmospheric correction in the solar spectrum
- Martha E. Geores,* Ph.D., UNC Chapel Hill, 1993, Associate Professor & Associate Chair — population and environmental interactions, Latin America, natural resource definition, landscape, human dimensions of global change
- Louis Giglio, Ph.D., U. of Maryland, 2006, Research Associate Professor — global fire monitoring and fire emissions, remote sensing, and satellite direct broadcast applications
- Samuel N. Goward,* Ph.D., Indiana State, 1979, Professor remote sensing, climatology, numerical analysis, modeling
- Ruibo Han, Ph.D., University of Ottawa, 2012, Lecturer GIS and remote sensing
- Matthew Hansen, * Ph.D., U. of Maryland, 2002, Professor land cover and land use change, remote sensing
- Tao He, Ph.D., U. of Maryland, Research Assistant Professor land surface energy budget, data fusion on satellite products
- Michelle Hofton,* Ph.D., Durham University, 1995, Research Associate Professor — topographical measurements and applications
- Klaus Hubacek,* Ph.D., Rensselaer Polytechnic Institute, 2000, Professor — human dimensions of global change, sustainable development, ecological economics
- Chengquan Huang,* Ph.D. U. of Maryland, 1999, Research Professor — land cover, land cover change, vegetation modeling, image analysis
- George C. Hurtt,* Ph.D., Princeton, 1997, Professor and Research Director — theory and application of community and ecosystem ecology, mathematical models
- 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
- Huiran Jin, Ph.D., State University of New York, 2013, Research Associate — GIS, Land cover/land use classification and biomass estimation
- Curtis Jones, Ph.D., University of Florida, 2013, Research Associate — modeling biogeochemical cycling within agricultural systems
- Christopher Justice,* Ph.D., University of Reading, UK, 1977, Professor and Chair — global change, land cover, land use change, remote sensing, fire monitoring, observation systems

- Eric Kasischke,* Ph.D., Michigan, 1992, Professor remote sensing, boreal forest ecology, fire ecology of boreal ecosystems, carbon cycling
- Megan Lang*, Ph.D., U. of Maryland, Research Associate Professor — wetland science, assessing the effects of conservation practices
- Mengxue Li, Ph.D., Wuhan University of Technology, 2009, Research Assistant Professor & Director of International Programs remote sensing
- Shunlin Liang,* Ph.D., Boston University, 1993, Professor and Graduate Director — cartography, numerical methods, remote sensing
- Eunjung Lim, Ph.D., SUNY at Buffalo, 2009, Lecturer Spatiotemporal analysis, GIS modeling, programming
- Tatiana Loboda,* Ph.D., Maryland, 2008, Associate Professor land cover and land use change and its impacts on biodiversity, wildland fire mapping, fire danger, fire threat modeling, assessment of fire impact on ecosystems
- Ronald Luna, Ph.D., University of Maryland, 2009, Lecturer Latin-American migration, transnationalism, cultural spaces, ethnic churches
- Jianguo Ma, Ph.D., Cornell, 2006, MPS/GIS Program Director and Lecturer — renewable energy and sustainable development
- Janet Nackoney, Ph.D., U. of Maryland, 2012, Research Assistant Professor — conservation land-use planning, habitat fragmentation, land use/land cover change and deforestation monitoring, food security
- Jyoteshwar Nagol, Ph.D., U. of Maryland, 2011, Research Assistant Professor — remote sensing
- Wenjian Ni, Ph.D., Institute of Remote Sensing Applications Chinese Academy of Sciences, 2009, Research Associate — SAR and Lidar data processing, algorithms for exploring estimation of parameters of forest structure, earth system science
- Patricia Oliva, Ph.D., University of Alcala, 2010, Research Associate — active fire detection, burned area mapping, post-fire effects assessment
- Peter Potapov*, Ph.D., Russian Academy of Science, 2005, Research Associate Professor — forest mapping and monitoring, optical remote sensing
- Stephen Prince,* Ph.D., University of Lancaster, 1971, Research Professor — biogeography, remote sensing, modeling, Africa
- Jonathan Resop, Ph.D., Virginia Tech, 2010, Lecturer Modeling of environmental, hydrological, agricultural and ecological systems
- Khaldoun Rishmawi, Ph.D., University of Maryland, 2013, Research Associate — land degradation, biophysics, vegetation dynamics, remote sensing
- Wilfrid Schroeder, Ph.D., U. of Maryland, 2008, Research Associate Professor — remote sensing of active fires, biomass burning emissions modeling, land cover and land use change in Amazonia
- 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
- Julie Silva,* Ph.D., Rutgers, 2005, Assistant Professor uneven economic development in sub-Saharan Africa, environmental justice, human dimensions of global change
- Guoqing Sun*, Ph.D., California, 1990, Research Professor remote sensing of environment, back-scatter modeling, image processing, forest ecosystems
- Anu Swatantran, Ph.D., U. of Maryland, 2011, Research Assistant Professor — remote sensing/GIS, multi-sensor fusion, forest structure, habitat
- Tetsuji Tanaka, Ph.D., University of London, Research Associate food security, climate change, carbon tax, economic modeling

- Paul Torrens*, Ph.D., University College London, 2004, Associate Professor and Director of the Center for GIS — GIS, geocomputation, human geography
- John Townshend,* Ph.D., University College London, 1971, Professor, College of Behavioral and Social Sciences — land cover dynamics, remote sensing, information systems
- Joseph Trocino, B.A., University of Maryland, 1967, Lecturer study abroad programs focused on the Caribbean Archipelago
- Svetlana Turubanova, Ph.D., Russian Academy of Science, 2002, Research Associate — forest ecology, remote sensing
- Krishna Prasad Vadrevu*, Ph.D., Osmania University, 2000, Research Associate Professor — ecology, remote sensing, spatial analysis
- Dongdong Wang*, Ph.D., U. of Maryland, 2009, Research Assistant Professor — remote sensing, spatial analysis
- Alyssa Whitcraft, Ph.D., U. of Maryland, 2014, Research Assistant Professor — agriculture, the monitoring and mapping of agriculture characteristics and processes worldwide
- Lei Wang, Ph.D., Chinese Academy of Sciences, 2009, Research Associate — urbanization and global environment change, global forest loss
- Keith Yearwood, Ph.D., University of Florida, Lecturer fluvial geomorphology
- Feng Zhao, Ph.D., Boston University, 2010, Research Assistant Professor — LiDAR remote sensing, forest disturbance and regrowth, terrestrial carbon cycle, wetland studies
- Maosheng Zhao, Ph.D., Chinese Academy of Sciences, Research Assistant Professor — using satellite data and ecosystem models to quantify carbon, water and energy fluxes between terrestrial ecosystems and the atmosphere and their changes
- Naijun Zhou,* Ph.D., University of Wisconsin, 2005, Lecturer Geographical Information Science
- Mila Zlatic, Ph.D., University of Belgrade, 1988, Lecturer study abroad programs focused on urban geography and socio-political change
- *Members of the Graduate Faculty who have served or are serving on dissertation and thesis committees.

ADJUNCT FACULTY:

- Martha Anderson, Ph.D., University of Minnesota, 1993, Adjunct Professor — Research Physical Scientist USDA-ARS hydrology and remote sensing lab
- Andrea Baraldi, M.S., University of Bologna, 1989, Adjunct Associate Professor — computer and human vision, machine learning, remote sensing, biophysical parameter estimation from spaceborne imagery, landscape fragmentation/connectivity assessment for ecosystem and land use modeling
- 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 Csiszar*, Ph.D., Eotvos Lorand University, Budapest, 1996, Adjunct Associate Professor — remote sensing, fire science, meteorology
- Scott J. Goetz,* Ph.D., Maryland, 1996, Adjunct Associate Professor — remote sensing, biogeography, global terrestrial carbon flux modeling, forest ecology
- Dean Hively, Ph.D., Cornell, 2004, Adjunct Associate Professor soil science, remote sensing, watershed biogeochemical processes, GIS, resource conservation
- Anthony Janetos, Ph.D., Princeton, 1980, Adjunct Professor integrated assessment and analysis of global change modeling
- 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
- 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
- *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.

FACULTY RESEARCH ASSISTANTS:

Alice Alstatt, M.S., University of Nevada, 1994 Brian Barker, M.A., University of Maryland, 2012 Saurabh Channan, M.S., Johns Hopkins, 2004 Casper Chung, M.A., University of Maryland Katie Collins, M.S., University of Maryland, 2008 Charlene M. Dimiceli, B.S., Portland State, 1980 Justin Fisk, M.S., Colorado State, 2004 Allison Gost, M.S., University of Maryland, 2015 Chris Hsia, MPS/GIS, University of Maryland, 2014 Amy Hudson, B.S., University of Maryland Michael Humber, M.S., University of Maryland, 2014 Christine Kang, M.A., University of Maryland, 2011 Maureen Kelly, B.S., University of Maryland Alexander Krylov, M.S., Moscow State Forest University Katie McGaughey, M.S., University of Edinburgh, 2011 Giuseppe Molinario, M.A., University of Maryland, 2010 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 Ashwan Reddy, M.S., George Mason University Robert A. Sohlberg, B.S., Maryland, 1996 Mark B. Sullivan, B.S., Maryland, 1999

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 Systems Science Track. Accelerated M.S. in Geographic Information Sciences, M.S. in Geographic Information Sciences for Development and Environment
- GRANTED 9/1/13-8/31/14: 30 in Geography Bachelors; 5 in Global Environmental Studies Bachelors; 1 Environmental Science: Earth Systems Science Track Bachelors; 5 Ph.D.s, 3 Masters of Art (M.A.) in Geography (predoctoral); 4 M.S. in GIS; 22 M.S. in GISDE
- STUDENTS IN RESIDENCE: 83 Geography Majors; 27 Global Environmental Studies Majors; 10 Environmental Science: Earth Systems Science Track majors; 49 Ph.D.; 9 M.S. in GIS; 24 M.S. in GISDE NOT IN RESIDENCE: 5 Ph.D.

DIRECTOR: Anthony J. Bebbington 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 provides institutional and programmatic alternatives to conventional North American doctoral programs. The School is central to a private institution of approximately 2,300 undergraduates and 1100 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 majoring in the interdepartmental/interdisciplinary those 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 17 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 the School's on 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 4th in Geography and 14th in Economics with ISI 2-year citation impact factor of 3.281 and 5-year impact factor of citation 5.58 (2013)(www.clarku.edu/econgeography). 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. Eleven other universities and colleges in the city and surrounding area form the Higher Education Consortium of Central Massachusetts. The School maintains an extensive Map and Digital Library that is a depository for federal agencies, a graduate student computer room and lounge, office or desk space for most graduate students, an undergraduate lounge, and CoFERT (Computer Facility for Environmental Research and Teaching), 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, humanenvironment, 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, a nationally competitive NSF REU Site 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) in 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 concentrators are qualified to apply for the various honors and related programs noted above for geography. The Accelerated Degree Program 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.A. degree.

For further information regarding the academic plan, admission requirements or financial aid, please contact 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 the concentration in earth systems science, you may contact the Undergraduate Program Coordinator Rachel Levitt (RLevitt@clarku.edu); Telephone: (508)793-7282. In addition, for Global Environmental Studies, you may also contact Professor Dianne Rocheleau, GES Director (drocheleau@clarku.edu) or ges@clarku.edu); Internet: www.clarku.edu/departments/ges. For the Earth Systems Science concentration in the Environmental Science major, you may also contact Professor Christopher Williams (cwilliams@clarku.edu); Telephone: (508)793-7323; 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, or Australia or who have received a degree from a university in those countries. The application deadline is December 31st. Financial Aid includes tuition fellowships and research and teaching assistantships. All students accepted into the program are funded equally. Interested applicants should contact Program Administrator Graduate Brenda Nikas-Hayes (BNikasHayes@clarku.edu); Telephone: (508)793-7337.

FACULTY:

- Yuko Aoyama, Ph.D., UC-Berkeley, 1996, Professor of Geography and Executive Editor, Economic Geography economic/industrial geography, globalization, technological change, cultural economy
- Anthony J. Bebbington, Ph.D., Clark, 1990, Milton P. and Alice C. Higgins Professor of Environment and Society and Director, Graduate School of Geography — human-environment, development geography, social movements, political ecology, extractive industries, Latin America
- Mark Davidson, Ph.D., London, 2006, Assistant Professor of Geography — urban geography, gentrification, urban politics, metropolitanism, policy-making, critical theory
- J. Ronald Eastman, Ph.D., Boston, 1982, Professor of Geography geographic information systems, remote sensing, earth system informatics, land use change
- Jacque (Jody) L. Emel, Ph.D., Arizona, 1983, Professor of Geography and Acting Director (2015) — natural resources, political ecology, feminist theory, governance, animal geographies
- 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, Associate Professor of Geography and Associate Director, Graduate School of Geography — urban/social/political geography, law and geography, qualitative methods, place and social movements theories

- James McCarthy, Ph.D., UC-Berkeley, 1999, Professor of Geography — 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 — 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 and GIS
- Dianne E. Rocheleau, Ph.D., Florida, 1984, Professor of Geography — political ecology, environmental justice, urban ecology, gender, culture, nature and development, forestry, agriculture, land and territory, social movements, network theories
- John Rogan, Ph.D., San Diego State University and UC-Santa Barbara, 2003, Associate Professor of Geography — remote sensing, land cover change, biogeography, fire ecology
- Florencia Sangermano, Ph.D., Clark, 2009, Visiting Assistant Professor, Graduate School of Geography and Research Assistant Professor, Clark Labs — conservation biology, GIS, Remote Sensing and 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:

- 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; urban applications of remote sensing; land-use change and environmental degradation
- Colin Polsky, Ph.D., The Pennsylvania State University, 2002, Research Professor — climate impacts, human-environment vulnerability to global environmental change, spatial statistics, mixed methods
- B.L. Turner II, Ph.D. Wisconsin, 1974, Distinguished Research Professor — 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 Gerald J. Karaska, Professor Emeritus Duane S. Knos, Professor Emeritus William A. Koelsch, Professor Emeritus Lawrence A. Lewis, Professor Emeritus Robert C. Mitchell, Professor Emeritus Henry J. Steward, Professor Emeritus

MOUNT HOLYOKE COLLEGE

DEPARTMENT OF GEOLOGY AND GEOGRAPHY DATE FOUNDED: 1904 DEGREES OFFERED: B.A. GRANTED 9/1/00-8/31/14: 243 Bachelors MAJORS: 42 CHAIR: Steven R. Dunn DEPARTMENT ADMINISTRATIVE ASST: Cecile Vasquez

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Michelle Markley, Associate Professor of Geology, Department of Geology and Geography, Mount Holyoke College, 50 College St., Clapp 304, South Hadley, Massachusetts 01075-6419. Telephone (413) 538-2278. Fax (4\3) 538-2239. E-mail: cvasquez@mtholyoke.edu. Internet: www.mtholyoke.edulacadlgeo/.

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 2,164 women, a faculty of 200, and an extraordinary array of academic facilities spread across an 800acre campus. The College offers majors in 49 fields and a curriculum constantly enriched by new and innovative courses.

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.

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. 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.

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. Currently, the department consists of four geographers and four geologists. Geography courses serve as a core for the International Relations major and the department cooperates closely with interdisciplinary programs in Environmental Studies, African Studies, American Studies, and Women Studies. Faculty in Geology have active research programs which take them and their students to eastern Canada, Africa, Alaska, Mexico, the American Southwest, and the Canadian Rocky Mountains and Arctic. The Connecticut Valley is a prime location for fieldtrips which are a critical component of our program. The Williston Library stores USGS and AMS depository maps; the Library also contains more than 1,850 periodical subscriptions and its total collection is 670,000 volumes which includes books, serials and bound periodicals; and students are able to access the Five College library system from department computers.

The GeoProcessing Lab hosts state of the art hardware and software necessary for modem G IS 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

For additional information on Geoprocessing facilities contact Dr. Thomas Millette at (413) 538-2813.

Geology maintains rock preparation facilities, analytical laboratories for sample analysis, and a scanning electron microscope. A microscope/computing laboratory is used by students and faculty conducting independent research.

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 petrology/petrography, mineralogy, isotope geology, electron microscopy
- Houston, Serin, Ph.D., Syracuse University, 2012, Assistant Professor — economic geography; development-underdevelopment; state society, critical resource geography; social-environmental movements; discourses, institutions and power.
- Girma Kebbede, Ph.D., Syracuse, 1981, Professor development geography, population and food resources, spatial analysis, Africa
- Eugenio Marcano Ph.D., Cornell University, 1994 Geoprocessing Lab Manager and Instructor in Geography — GIS, Soil Science
- Michelle J. Markley, Ph.D., University of Minnesota, 1998, Associate Professor — structural geology and tectonics
- Mark A.S. McMenamin, Ph.D., California-Santa Barbara, 1984, Professor — paleontology, history of life, stratigraphy
- Thomas L. Millette, Ph.D., Clark, 1989, Associate Professor remote sensing, geographic information systems and environmental planning
- Alan Werner, Ph.D., Colorado, 1988, Professor oceanography, environmental geology, climate change geology, sedimentology

Martha M. Godchaux, Ph.D., Oregon, 1969, Professor Emeritus

SALEM STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1932 GRADUATE PROGRAM FOUNDED: 1992 DEGREES OFFERED: B.A., B.S., M.A.T., M.S. GRANTED (yearly graduates): 30 Bachelors; 6 Masters STUDENTS IN RESIDENCE: 100 Majors; 24 Masters CHAIR: Stephen Matchak ADMINISTRATIVE ASSISTANT: Pat Whynott

FOR FURTHER INFORMATION WRITE TO: Dr. Stephen Matchak, Department of Geography, Salem State University, 352 Lafayette St., Salem, Massachusetts 01970. Telephone (978) 542-6225. Fax (978) 542-6269. E-mail: pwhynott@salemstate.edu.

Internet: dgl.salemstate.edu/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 four concentrations; Sustainability, GeoInformation Sciences, Cultural and Tourism. At the graduate

level the department offers a M.S. in Geo-Information Science. Each program combines a strong academic geography background with applied fields in regional studies, physical geography, travel, tourism development, remote sensing, computer mapping and geographic information systems.

A senior year internship program provides for career counseling and occupational experience for academic credit. The internship program contracts with many businesses and agencies within the Salem-Boston metropolitan area, which also serves as a valuable resource for post graduate employment.

The Department is located next to the College Library, with its collections of geo-science journals and texts. Departmental facilities include physical geography laboratories and the Digital Geography Laboratory, a geo-computing facility housing digitizing equipment, and an extensive collection of mapping and analytical software.

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

UNDERGRADUATE: Applications may be obtained from The Admissions Office, Salem State College, Salem, MA 01970, (978) 542-6200. S.A.T. Scores are required.

GRADUATE: Applications may be obtained from The Division of Graduate Education, Salem State College, Salem, MA 01970, (978) 542-6300 GRE Scores are required.

FINANCIAL AID: Inquiries to the Financial Aid Department, Salem State College, 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:

- William L. Hamilton, Ph.D., Oregon State, 1980, Professor computer assisted cartography, quantitative methods, GIS, digital image processing, physical
- John T. Hayes, Ph.D., UCLA, 1986, Associate Professor climatology, global change, GIS, modeling, physical, environmental impact assessment, resource management
- Noel Healy, Ph.D, NUI, Galway, Ireland, 2010, Assistant Professor — tourism, environmental sustainability, sustainable tourism development
- Lorri K. Krebs, Ph.D., Waterloo, 2004, Associate Professor tourism development, resource management, Latin America, Canada
- Marcos Luna, Ph.D., University of Delaware, 2007, Associate 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, Associate Professor — sustainability, Native Americans, environmental justice, political geography
- Stephen S. Young, Ph.D., Clark, 1997, Professor biogeography, remote sensing, physical, Asia

PART-TIME FACULTY:

Arthur A. Francis, B.S., Salem State, 1979, Lab Meterologist

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

UNIVERSITY OF MASSACHUSETTS AMHERST

DEPARTMENT OF GEOSCIENCES

DATE FOUNDED: 1938

GRADUATE PROGRAM (GEOGRAPHY) FOUNDED: 1980

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

- GRANTED 9/1/14-8/31/15: in Geography: 7 Bachelors, 2 Masters, 1 Ph.D.
- GEOGRAPHY STUDENTS IN RESIDENCE: 30 Majors, 5 Masters, 5 Ph.D.
- NOT IN RESIDENCE: 2 Ph.D.
- CHAIR: Julie Brigham-Grette (Geosciences); Piper Gaubatz (Geography)
- DEPARTMENT ADMINISTRATIVE ASST: Marsha Howe

FOR FURTHER INFORMATION WRITE TO: Professor Piper Gaubatz, Geography Program Head, Department of Geosciences, University of Massachusetts, Amherst, Massachusetts 01003. Telephone (413) 545-0768. Fax (413) 545-1200. E-mail: gaubatz@geo.umass.edu. Web page: blogs.umass.edu/umgeog

PROGRAMS AND RESEARCH FACILITIES: The department offers an M.S. degree in geography and a Ph.D. in geosciences with a concentration in geography. Faculty specialize in Environmental History, Environmental and Conservation Issues and Policy, Political Geography, Urban Geography, Urban Environmental History, Political Ecology, Climatology, Paleoclimatology, Geomorphology, Quaternary Studies, Ecological Cycling, Spatial Information, and the regional contexts of North America, East Asia, and South Asia.. Geosciences houses labs for GIS and digital mapping. A single-year (12 month) MS is possible for students who have already earned a Bachelor's degree in Geography. Environmental Geography Concentration: Geography majors in the B.A. program have an opportunity to focus their studies on geographic approaches to environmental issues, policy and history.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Semester system. Applications due November 1 for early action; January 15 for regular admission. SAT scores required. Undergraduate geography majors are enrolled in the College of Natural Sciences and must complete the College's distribution requirements in addition to the requirements of the geography program in order to receive a Bachelor's degree. The department offers B.S. and B.A. degrees in geography. University, State, and private scholarships and grants, loans, work-study and tuition waivers are available to qualifying students. Students applying for financial aid are automatically considered for all types of aid.

GRADUATE: Semester system. GRE scores and a minimum cumulative average of 3.00 (4 point system) or equivalent is required. Deadline for applications is January 15 for admission in fall. An MS in geography and a Ph.D. in Geosciences (with a concentration in geography) are offered. Teaching assistantships and minority graduate

fellowships are awarded on a competitive basis, subject to availability, and carry a tuition waiver. Full- and half-time research assistantships may also be available on specific research projects.

FACULTY:

- Toby Applegate, Ph.D., Rutgers, 2014, Visiting Lecturer political and cultural geography, Europe
- Piper Gaubatz, Ph.D., California-Berkeley, 1989, Professor and Geography Program Head — urban, environmental history, China, Japan, United States
- Mike Rawlins, Ph.D, Univ. of New Hampshire, 2006. Extension Assistant Professor — climate processes, terrestrial water and carbon cycles
- Stan Stevens, Ph.D., California-Berkeley, 1989, Senior Lecturer, Graduate Program Director — political ecology, environmental and conservation issues, environmental history, protected areas, indigenous peoples
- Eve Vogel, Ph.D. Oregon, 2007, Associate Professor political and environmental geography, river governance, humanenvironmental history
- Qian Yu, Ph.D., California-Berkeley, 2005, Associate Professor GIScience, remote sensing, spatial modeling, biogeography

EMERITUS GEOGRAPHY PROFESSORS:

- James A. Hafner, Ph..D., Michigan, 1970 political ecology of development, migration, resource management, Southeast Asia in global context
- Rutherford H. Platt, J.D., Chicago, 1967; Ph.D., Chicago, 1971 ecological cities, planning law, land & water resource management
- Richard W. Wilkie, Ph.D., Washington, 1968 humanistic geography—sense of place/spirit of place, migration, Latin America, historical, visualizing information

ASSOCIATED FACULTY:

- Raymond S. Bradley, Ph.D., Colorado, 1974, Distinguished Professor (Geosciences) — paleoclimatology, climatology, Arctic and alpine environments, global change
- Stephen Burns, Ph.D., Duke, 1987, Professor (Geosciences) stable isotopes, paleoclimatology, speleothems
- Brian W. Conz, Ph. D., Massachusetts, Amherst, 2008, Assistant Professor (Westfield State) — political ecology, conservation, indigenous peoples, Central America
- Julie Brigham-Grette, Ph.D., Colorado, 1985, Professor (Geosciences) — glacial geology, Quaternary stratigraphy and geochronology, sea level history, paleoclimatology
- Robert M. DeConto, Ph.D., Colorado, 1998, Associate Professor (Geosciences) — climate modeling, oceanography, paleoceanography
- Christine Hatch, Ph.D., California-Santa Cruz, 2007, Extension Assistant Professor (Geosciences) — hydrogeology, water resources and climate change, ecohydrology, surface water – ground water interactions.
- John Woodruff, Ph.D., M.I.T, 2008, Assistant Professor (Geosciences) — sedimentology, coastal processes and hurricanes

WESTFIELD STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND REGIONAL PLANNING DATE FOUNDED: 1981 GRADUATE PROGRAM FOUNDED: NA DEGREES OFFERED: undergraduate minor in Applied Geography, undergraduate minor in GIS, undergraduate degree in Regional Planning GRANTED 9/2013 to 8/2014: Majors 25 STUDENTS IN RESIDENCE: 30 minors, 50 undergraduate majors CHAIR: Robert S. Bristow DEPARTMENT ADMINISTRATIVE ASSISTANT: Beverly Zeigler

FOR FURTHER INFORMATION CONTACT:

Geography and Regional Planning, Westfield State University, 577 Western Avenue, Westfield, MA 01086. Telephone 413-572-8315. Fax 413-572-5470. Email bzeigler@westfield.ma.edu. Internet http://www.westfield.ma.edu/garp. The Friends of GARP on Facebook 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, sustainability, 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 GARP 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 plotters and 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 Android tablets with a data plan 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.

FACULTY:

- Carsten Braun, Ph.D., UMass Amherst, 2006, Associate Professor — Physical Geography, Geographic Information Systems, Climate Change
- Robert S. Bristow, Ph.D., Southern Illinois University, 1990, Professor and Chair — Physical Geography, Quantitative Methods, Tourism Planning

- Marijoan Bull, Ph.D., AICP, Salve Regina University, 2008, Associate Professor — Regional and Urban Planning, Housing, and Land Use, Legal Issues, World Regional Geography
- Brian Conz, Ph.D., UMass Amherst, 2006, Assistant Professor Physical Geography, Political Ecology, Environmental Analysis, Central America
- 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
- Kate Terzano, Ph.D., Ohio State, 2011, Assistant Professor Community, Economic and Neighborhood Development, Urban Design and Historic Preservation, Non-motorized Transportation

Emeritus Faculty:

William Bennett, Ph.D. Stephanie Kelly, Ed.D. George Psychas, Ed.D.

WORCESTER STATE UNIVERSITY

DEPARTMENT OF EARTH, ENVIRONMENT AND PHYSICS

DEGREES OFFERED: B.S. in Geography, B.S. in Environmental Science

GRANTED: 2014: 24, 8 in Geography

MAJORS: Geography: 32; Environmental Science: 52 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: www.worcester.edu

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, Assistant Professor — sedimentary processes, Quaternary environmental change
- Janelle Cornwell, Ph.D., University of Massachusetts, 2011, Visiting Professor — solidarity economics, economic geography
- Allison L. Dunn, PhD., Harvard University, 2006, Associate Professor — atmospheric science, physical geography
- William J. Hansen, Ph.D., City University of New York, 2002, Associate Professor — GIS, remote sensing, cartography, environmental resource management
- Douglas E. Kowalewski, Ph.D., Boston University, 2009, Assistant Professor — geomorphology, climate modeling, glaciology

MICHIGAN

CALVIN COLLEGE

DEPARTMENT OF GEOLOGY, GEOGRAPHY, ENVIRONMENTAL STUDIES DATE FOUNDED: 1983 DEGREES OFFERED: B.A. (Geography, Environmental Studies), B.S. (Geology, Environmental Geology) GRANTED 9/1/13 - 05/31/14: 23 Bachelors MAJORS: 81 CHAIR: Johnathan Bascom

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Johnathan Bascom, Department of Geology, Geography, and Environmental Studies, Calvin College, 1740 Knollcrest Circle SE, Grand Rapids, MI 49546. Telephone (616) 526-6370. Fax (616) 526-6501. E-Mail: jbascom@calvin.edu. http://www.calvin.edu/academic/geology/.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geology, Geography and Environmental Studies offers Bachelors Degrees and minor concentrations in Geography, Geology and Environmental Studies. It is a principal player in an interdisciplinary Environmental Science program and a strong participant in International Development Studies, and Elementary and Secondary Education. Current faculty includes five geographers, two geologists, a specialist in environmental history and policy, and an earth science education specialist. The geography faculty have active research programs in aeolian and coastal geomorphology; refugee resettlement; Geographic Information Systems (GIS); the relevance of Christian philosophy for geography; and the relationships among worldviews, agriculture and place.

The curriculum emphasizes the natural, cultural, societal and spiritual contexts in which people live. The mission of the geography program is to expand students' knowledge of how cultures and communities transform and organize their physical, ecological and economic environments into human landscapes. Student participation in undergraduate research is a notable strength of the program. Student researchers have recently participated in coastal dune geomorphology and management investigations; GIS applications to resource management and terrorism; studies of community organizations among Eritrean refugees; and studies of marine resource management in New Zealand.

The department facilities include three teaching laboratories, two research laboratories, and a geospatial analysis laboratory for GIS, computer cartography, and data analysis. The Geospatial Lab software includes ArcGIS, Erdas Imagine, Rockworks, SPSS, and Canvas with GIS extension. The field research lab used by physical geography students is designed for mechanical analysis of soil and sediment, and simulation of fluvial processes. Field equipment includes Juno GPS units, a variety of of meteorological, geomorphological and surveying instruments. The department also runs the on-campus weather station. The Department is a USGS repository, presently possessing over 8,000 maps. It is also a repository for census material available on CD-ROM including TIGER files, DLGs, and other digital data.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Calvin College is a comprehensive liberal arts college in the Reformed tradition of Christianity, located in metropolitan Grand Rapids, Michigan, on a 370-acre campus. Founded in 1876, it is one of the largest Christian colleges in North America with over 3,900 students and 100 academic programs, and an international reputation as a center of faith-shaped thinking. The academic year is based on a semester system with a January Interim. High school grades and college entrance test scores are used in selecting students for admission. Calvin College has a need and merit based financial aid program and more than 90% of the students receive some kind of financial aid.

http://www.calvin.edu/admin/admissions/

FACULTY:

- Johnathan Bascom, Ph.D., University of Iowa, 1989, Professor Africa, economic geography, refugees and internally displaced persons, geographic pedagogy
- Ken Bergwerff, M.A.T., Grand Valley State University, 1988, Assistant Professor — science education
- Mark D. Bjelland, Ph.D., University of Minnesota, 2000, Professor urban geography, urban planning, environmental studies, Geographic Information Systems
- James R. Skillen, PhD., Cornell University, 2006, Assistant Professor — natural resource policy, environmental history, environmental ethics
- Ralph F. Stearley, Ph.D., University of Michigan, 1990, Professor paleontology, historical geology, stratigraphy, sedimentology
- Deanna van Dijk, Ph.D., University of Waterloo, 1998, Professor aeolian and coastal geomorphology, cold-climate processes, wind erosion in complex environments
- Jason E. VanHorn, PhD, Ohio State University, 2007, Professor Geographic Information Systems, cartography, remote sensing, geography of terrorism
- Gerald Van Kooten, Ph.D. University of California, Santa Barbara, 1980, Professor — exploration and development geology, geochemistry, geothermal energy

CENTRAL MICHIGAN UNIVERSITY

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1901

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

Information Science) GRANTED: 2013-14 Year: Bachelors - 51, Masters - 5

MAJORS: 92

CHAIR: David K. Patton

DEPARTMENT ADMINISTRATIVE ASST: Nancy L. Bauer

GRADUATE COORDINATOR: Tao Zheng

FOR CATALOG AND FURTHER INFORMATION WRITE TO: David K. Patton, Department of Geography, Central Michigan University, 296A Dow Science Bldg., Mt. Pleasant, Michigan 48859. Telephone (989) 774-3323. Fax (989) 774-2907. Email: pattold@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 four concentrations: Geographic Information Sciences (GISci), Environmental and Land Use Planning, Global Studies, and Geospatial Analysis of the Environment. 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, spatial modeling, land use analysis, spatial statistics, transportation, China, and Latin America.

The department manages two instructional laboratories with state-ofthe-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 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:

- Brian L. Becker, Ph.D., Michigan State University, 2002, Professor 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, paleoecology of pluvial lakes
- Mark Francek, Ph.D., University of Wisconsin-Milwaukee, 1988, Professor — soils, physical geography, GPS/GIS, earth science education
- Hoehun Ha, Ph.D., State University of New York at Buffalo, 2011, Postdoctoral Teaching & Research Associate — spatial analysis, spatial statistics, environmental health GIS
- 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 and GISci
- 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 geographic information science, cartography, remote sensing, economic geography, China
- Michael J. Libbee, Ph.D., Syracuse, 1975, Professor geographic education, teacher preparation, human geography

- Matthew E. Liesch, Ph.D., Wisconsin, 2012, Assistant Professor cultural geography, vernacular landscapes, rural economic development, geographic 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 Department Chair — cartography, geographic visualization, GIS, urban planning
- James A. Pytko, M.S., Central Michigan, 2009, Lecturer physical geography, geographic information science
- Ryan P. Shadbolt, Ph.D., Michigan State, 2009, Lecturer meteorology, climatology
- Yong Q. Tian, Ph.D., 1995, Waikato, New Zealand, Associate Professor — geocomputation, land-water dynamics, environmental modeling, coastal ecology
- Xiaoguang Wang, Ph.D., University of Michigan, 2009, Assistant Professor — Urban and Regional Planning, spatial decision making, transportation, 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 and Graduate Coordinator — environmental remote sensing, GIS hydraulic modeling, land surface geophysical modeling

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: Undergraduate 132; Graduate 119

GRANTED 7/01/13-06/30/14: 32 Bachelors; 35 Masters; Certificates 7

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); 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, HISTORIC PRESERVATION. HISTORIC and Our 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, Assistant 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
- Todd Grote, Ph.D. West Virginia University, 2006, Associate Professor — Quaternary Geology, Soils, Fluvial & Glacial Systems
- Robert Jones, PhD, Portland State University, 1999, Professor planning, urban geography, historic preservation
- Hee-Jung Jun, Ph.D., The Ohio State University, 2010, Assistant Professor — sustainable community development and planning, neighborhood dynamics, housing issues and policy, residential mobility
- Michael Kasenow, Ph.D., Western Michigan, 1994, Professor hydrology, science education
- Heather Khan, Ph.D., Florida State University, 2008, Assistant 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
- Chris Mayda, Ph.D., USC 1998, Professor cultural geography, rural geography, settlement patterns

- 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 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
- Katherine Ryker, Ph.D., North Carolina State University, 2014, Assistant Professor — Geoscience Education, Sedimentology, Stratigraphy, GIS
- 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 cultural geography, geographic information systems
- William F. Welsh, Ph.D., University of North Carolina-Chapel Hill, 2001, Associate Professor — G.I.S., remote sensing, environmental 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:

- 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. 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. 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 at a number of graduate programs including: Syracuse University, the University of Missouri, the University of Texas, Ohio University, Kent State University, Rutgers University, and Western Michigan University.

GRCC is home to the Lambda Upsilon chapter of Gamma Theta Upsilon, which was distinguished with the award of *Honors* in 2013. 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, 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

Geography Faculty:

M. S. DeVivo, Professor — leadership, history of geography, historical geography, geopolitics

GRAND VALLEY STATE UNIVERSITY

DEPARTMENT GEOGRAPHY AND PLANNING DATE FOUNDED: 2000

DEGREES OFFERED: B.A. in Geography; B.S. in Geography GRANTED 9/1/14-8/15/15: 10 MAJORS: 65 MINORS: 20 CHAIR: Dr. Elena Lioubimtseva DEPARTMENT ADMINISTRATIVE ASSTANTANT: 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: Readera@gvsu.edu. Internet: www.gvsu.edu/geography.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and Planning at Grand Valley State University offers B.S. and B.A. degrees in Geography .We also offer minors in Geographic Information Systems (GIS), City and Regional Planning, and the Geography Education at the secondary level. Michigan teacher certification requires the completion of the School of Education professional program.

The Department offers a wide selection of geography and planning courses, balancing offering in thematic and regional geography.

Particular strengths are geographic techniques, regional studies and environmental geography. 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.

The Department is located on the beautiful Allendale campus of GVSU, between the Lake Michigan shore and the city of Grand Rapids, offering excellent opportunities for field research in the nearby state and nature centers as well as urban educational and research possibilities in Grand Rapids. Abundant internship opportunities are available for Geography and Planning majors and minors.

Supplementing coursework are a state-of-the-art computer laboratory with GIS and remote sensing applications (ArcGIS with several extensions, Idrisi, and Erdas), MAGICC/SENGEN climate modeling software, field and laboratory equipment, three digital weather stations belonging to GVSU, 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 to the undergraduate major program in Geography is the same as that for admission to the College of Liberal Arts and Sciences. The focus of the geography and planning 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.

The major is made up of 12 credits of required courses and the remainder of upper-level electives. The department offers a wide range of upper level courses focused on GIS, remote sensing and image processing, global development, environmental geography, urban and regional planning, and regional geography courses.

FULL-TIME FACULTY:

- Roy Cole, Ph.D., Michigan State University, 1991, Professor global development, Africa, Middle East, land-use/land cover change.
- Patricia Houser, Ph.D., AICP, Columbia University, 2007, Assistant Professor — urban and regional planning, urban environmental planning, transportation planning, cultural geography.
- Elena Lioubintseva, Ph.D., Moscow State University, 1994, Professor — climate change, environmental geography, landscape ecology, Russia and Central Asia.
- Kin M. PhD, 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, natural resource use..
- Wanxiao Sun, Ph.D., Johannes Gutenberg University of Mainz, 1999, Associate Professor — remote sensing, digital image processing, geographic modeling.
- Jeroen Wagendorp, Ph.D., AICP, GISP, University of Oklahoma, 1989, Chair, Associate Professor — public sector GIS institutionalization, Europe.
- Gang Xu, Ph.D., Johannes Gutenberg University of Mainz, 1996, Associate Professor — economic geography, business GIS applications, urbanization, China.

ADJUNCT FACULTY:

- Mary E. Boehm, MA, Western Michigan University, 1977 Physical Geography, Regional Geography.
- Rod Denning, MA., Western Michigan University, 1990 Geographic Information Science.

Michael Gutowski, MA., Western Michigan University, 2008 — Regional Geography, Physical Geography.

- Mary Jo Hills, MS., Michigan Technological University, 1990, MS., Grand Valley State University, 2008 — Geographic Information Science.
- Janis Johnson, BS, AICP., Grand Valley State University, 1975 Land Use Planning, Planning Law.
- Ash Snyder, MA., University of Illinois at Chicago, 1995 Regional Geography, Cultural Geography.
- Judith Transue, MA., Northwestern University, 1966, MSW., University of Michigan, 1972, MA., Michigan State University, 2000 — Regional Planning, Housing.
- Jonathan Wessell, MA., Western Michigan University, 1997 Regional Geography, Cultural Geography.

MICHIGAN STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1955

GRADUATE PROGRAM FOUNDED: 1952

DEGREES OFFERED: BA, BS, MS, MS-GIS and PhD

- GRANTED 8/28/13-8/14/14: 19 Bachelors, 5 Masters, 3
- MS-GIS, 5 PhD STUDENTS IN RESIDENCE: 76 Majors, 21 Masters, 33
- PhD

NOT IN RESIDENCE: 1 Masters, 2 PhD

CHAIR: Alan F. Arbogast

DEPARTMENT ADMINISTRATIVE ASST: Judy Reginek

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Alan F. Arbogast, Chair, Department of Geography, 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; spatial technologies; 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. The department also offers Bachelors and Masters Degrees in Geographic Information Science. 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 UNIX and PC graphics laboratories with multiple workstations 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, 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, Associate Professor agricultural meteorology/climatology
- Alan F. Arbogast, PhD, Kansas, 1995, Professor and Chairperson Quaternary geomorphology, paleo-environments, physical
- Raechel A. Bianchetti, PhD, Penn State, 2014, Assistant Professor Cognitive GIScience, geovisualization, remote sensing
- Guo Chen, PhD, Penn State, 2007, Assistant 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, socialcultural, 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
- Richard E. Groop, PhD, Kansas, 1976, Professor cartography, GIS applications, US. internal migration
- Arika Ligmann-Zielinska, PhD, San Diego/UC-Santa Barbara, 2008, Assistant Professor — environmental and social modeling
- Lifeng Luo, PhD, Rutgers, 2003, Assistant Professor climate, meteorology, climate change
- Joseph Messina, PhD, North Carolina, 2001, Professor global environmental change, GIS
- Nathan Moore, PhD, Duke, 2004, Assistant Professor landatmosphere interactions, regional climate modeling, land use/land cover dynamics
- *Emilio Moran, PhD, Florida, Professor* Latin America, humanenvironment interactions, tropical agriculture, land use
- Sarah Nicholls, PhD, Texas, 2002, Associate Professor recreation geography
- Amber L. Pearson, PhD, Washington, 2010, Assistant Professor Epidemiology, health geography
- Bruce Wm. Pigozzi, PhD, Indiana, 1979, Professor urban, economic and transportation geography, regional economic and transportation planning, quantitative methods, modeling
- 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, Associate Professor — GIS
- Igor Vojnovic, PhD, Toronto, 1997, Associate Professor urban, economic
- 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, Assistant Professor Africa, GIS, remote sensing

ASSOCIATED FACULTY:

Juliegh Bookout, MA, Michigan State, 2006, Visiting Instructor — online Instruction

Peilei Fan, PhD, MIT, 2003, Adjunct Professor - planning, China

- Adrienne Domas Goldsberry, MA, UC-Santa Barbara, 2002, Visiting Instructor — online Instruction, planning
- Robert K. Hitchcock, PhD, New Mexico, 1982, Adjunct Professor Human-environment interactions
- Eva Kassens, PhD, MIT, 2009, Adjunct Professor planning, transportation
- David Lusch, PhD, Michigan State, 1982, Senior Specialist remote sensing, GIS, applied physical, geomorphology
- Frederick E. Nelson, PhD, University of Michigan, 1982, Adjunct Professor – polar regions, periglacial geomorphology
- Morris O. Thomas, MA, Michigan State, 1969, Visiting Professor U.S., world regional, physical
- Beth Weisenborn, MA, Michigan State, 2001, Outreach Specialist online Instruction
- Antoinette M.G.A. WinklerPrins, PhD, Wisconsin, 1999, Adjunct Professor — Latin America, people-environment

EMERITUS FACULTY:

- Kenneth E. Corey, PhD, Cincinnati, 1969, Professor Emeritus
- Michael Chubb, PhD, Michigan State, 1967, Professor Emeritus
- John M. Hunter, PhD, Reading, 1954, University Distinguished Professor Emeritus
- Gary A. Manson, PhD, Washington, 1979, Professor Emeritus

Assefa Mehretu, PhD, Johns Hopkins, 1969, Professor

- Judy Olson, PhD, Wisconsin, 1979, Professor Emeritus
- Robert N. Thomas, PhD, Penn State, 1968, 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 9/1/13–8/31/14: 90 Bachelors MAJORS: 304 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.

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 an excellent library, field courses, laptops and software needed for coursework, and internships related to the majors. The department houses the NMU Geographic Information Systems/Remote Sensing Lab and research laboratories.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system and summer program. *Admission Requirements:* Undergraduate: minimum ACT composite score of 19 and a high school GPA of 2.25/4.0. *Financial Aid:* scholarships, grants, loans, department assistants, and work study.

FACULTY:

- Michael J. Broadway, Ph.D., University of Illinois, 1983, Dean of College of Arts and Sciences/Professor — human geography
- Richard Eathorne, M.A., Northern Michigan University, 1977, Assistant Professor — human geography, economic geography, regional (Latin America), environmental studies
- Norma J. Froelich, Ph.D., Indiana University, 2009, Assistant Professor — climatology, physical geography, geographic research
- Weronika Kusek, Ph.D., Kent State University, 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
- Sarah Mittlefehldt, Ph.D., University of Wisconsin-Madison, 2004, Assistant 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
- Ronald C. Sundell, Ph.D., Northwestern University, Illinois, 1991, Professor — environmental policy and regulation, environmental impact assessment, environmental restoration
- Matthew J. Van Grinsven, ABD, Michigan Technological University, 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

EMERITI FACULTY:

- Fillmore C.F. Earney, Ph.D., Michigan State, 1965
- John Hughes, Ph.D., Northwestern, 1963
- Alfred N. Joyal, Ph.D., Iowa, 1980
- Bernard C. Peters, Ph.D., Michigan State, 1969
- Jarl Roine, M.A., Indiana, 1951
- Sten A. Taube, M.A., Georgia, 1963

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.A. Geography, Graduate Certificate in Geographic Information Science
- GRANTED 9/1/13-8/31/14: Bachelors: 40 in Geography, 12 in Tourism & Travel, 7 Masters, 2 certificates
- STUDENTS IN RESIDENCE: 163 Majors (94 in Geography, 30 in Tourism & Travel, 8 in Community & Regional Planning), 9 in GISci Certificate, and 22 Masters
- **NOT IN RESIDENCE: 0 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. A degree in Geography, and a Graduate Certificate in Geographic Information Science. In the B.S. Geography degree, students may opt for concentrations in general geography, environmental analysis and resource management, geographic information science or teaching of geography. 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.A. 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 ten hours of core courses (Geographic Research, Professional Skills, 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 Techniques. 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 Department has 6 computer laboratories for teaching/learning and research to support GIS, Physical meteorology, remote sensing, urban and regional planning, and physical geography. Equipment includes more than 100 networked Pentium IV and Sun computers using Windows 2000/XP, or Unix operating systems with associated scanning and large format color printing capability and running ArcGIS (with extensions), PCI, LDM-McIDAS-X software for geographic analysis as well as statistical software and ancillary systems. The department runs 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 (HDReAM), 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, work-study, student employment and assistantships are available through the Department of Geography. Per the rules of the College of Arts & Sciences, all undergraduates geography 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. Teaching and Research Assistantships for the academic year (September-April) are available. University fellowships are also possible. Students make general application for admission through the Graduate College. Applications for financial assistance must be supported by two letters of recommendation and transcripts of undergraduate work and are submitted to the Department of

Geography. Assistants and Fellows are provided office space, as are other graduate students insofar as possible.

FACULTY:

- Kathleen Baker, PhD, Michigan State, 2002, Associate Professor physical geography, geographic information systems, agricultural and biogeography
- Stephen R. Cameron, ABD, Michigan State, 2007, Instructor Latin America & land cover change, regional geography, geospatial techniques
- Lisa DeChano, PhD, Southwest Texas, 2000, Associate Professor environmental geography, physical geography, hazards, environmental impacts, sports geography, space studies, general physics
- Charles Emerson, PhD, Iowa, 1996, Associate Professor geographic information systems, global positioning systems, computer mapping, surveying techniques, remote sensing, geospatial techniques, spatial analysis, quantitative methods
- Lucius Hallett IV, PhD, Kansas, 2007. Associate Professor human geography, tourism and travel, culinary geography and food networks, regional geography, agricultural geography, agritourism
- Chansheng He, PhD, Michigan State, 1992, Professor natural resource management, geographic information systems, agricultural zoning, agronomy, physical geography, water resource management
- David Lemberg, PhD, AICP, California-Santa Barbara, 1998, Associate Professor — community and regional development planning
- Lei Meng, Ph.D., Texas A&M University, 2009, Assistant Professor — land-atmospheric interactions, meteorology and climatology, geo-hydrology & engineering geology, soil physics
- Benjamin Ofori-Amoah, PhD, Simon Fraser, 1990, Professor, Department Chair & Acting Director, W.E. Upjohn Center for the Study of Geographical Change — economic geography, economic development, urban and regional planning, geographic information systems, Africa
- C. Scott Smith, PhD, AICP, University of California-Irvine, 2010 urban and regional planning, transportation planning, location analysis, environmental planning, geographic information systems, human geography
- Joseph P. Stoltman, EdD, Georgia, 1971, Professor geographic education, cultural geography, cartographic visualization
- Gregory Veeck, PhD, Georgia, 1988, Professor economic geography, agricultural geography, China, qualitative methods, research methods in geography, agritourism, political geography
- Li Yang, PhD, Waterloo, 2007, Associate Professor tourism planning, tourism marketing, and cultural tourism

ADJUNCT FACULTY:

Michelle Metro-Roland, PhD, Indiana University, 2008 — cultural and urban geography, landscape, tourism, semiotics

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

George Vuicich, Ph.D., Iowa — geographic education, urban, quantitative methods

W.E. Upjohn Center for the Study of Geographical Change:

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 8/22/13-8/22/14: 8 Bachelors CHAIR: Jeff La Frenierre 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) 933-6285. E-mail: jlafreni@gustavus.edu. Internet: https://gustavus.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography cultivates in our students a holistic understanding of human-environment relationships; a critical awareness of environmental, economic, political, and cultural global change; and knowledge of the world's diverse regions. We seek to play a major role in the College's mission of providing an education that "is both interdisciplinary and international in perspective" while simultaneously modeling effective, just engagement with local communities. Our courses are intellectually stimulating: students are challenged to new understandings of the world around them while developing deeper values of community, service, and justice. We encourage curiosity, problem-solving, "real world" field experiences, collaboration, reflection, and strong communication. Field study of both social and biogeophysical phenomena, mapping, scale dynamics, and geospatial analysis and modeling are fundamental to how geographers work. The department encourages student-faculty collaborative research, and students from the department regularly present papers at academic conferences. Our graduates continue on to successful careers in natural resource management, urban and regional planning, geospatial analysis, education and research, business, international and community development, and environmental law and policy. According to a recent alumni survey, two thirds of Gustavus Geography alumni hold a graduate degree.

The department is located on the first floor of the Nobel Hall of Science. The Robert Moline Map Library is housed in the department and features a collection of nearly 100,000 maps from around the world. GIS facilities include a server with an extensive digital map collection for Minnesota and a PC laboratory with twenty-one computers equipped with a wide array of statistical, environmental modeling, and GIS software including ArcGIS, ERDAS IMAGINE, IDRISI, and Orthomapper. The Jacobson Climatology Laboratory, departmental weather station, groundwater well-field, and a stream monitoring station provide instructional and research opportunities for students.

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 in the Map Library or as a teaching assistant.

FACULTY:

- Lencho Bati, M.A., Hamline University, 2004, Visiting Instructor economic development, Africa, democracy, Middle East, human rights
- Jeff La Frenierre, Ph.D., Ohio State University, 2014, Assistant Professor and Chair — physical geography, GIS, mountain geography, water resources, cryosphere, climate change
- Robert Moline, Ph.D., University of Minnesota, 1969, Professor Emeritus — cultural landscape, American West, environmental history
- Joaquín Villanueva, Ph.D., Syracuse University, 2013, Assistant Professor — urban geography, political geography, Europe, legal geography
- Anna Versluis, Ph.D., Clark University, 2008, Associate Professor human-environment, political ecology, Haiti, remote sensing, disasters

MACALESTER COLLEGE

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1947 DEGREES OFFERED: B.A. GRANTED 9/1/13-8/31/14: 29 Bachelors MAJORS: 86 CHAIR: Holly 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 Cartography and GIS 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 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 74 percent of Macalester's students receive some form of financial aid.

FACULTY:

- Holly R. Barcus, Ph.D., Kansas State, 2001, Professor population, GIS, rural geography, migration
- Eric Carter, Ph.D., Wisconsin, 2005, Associate Professor & Holder of Edens Chair — 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
- William G. Moseley, Ph.D., Georgia, 2001, Professor humanenvironment, development, agriculture, Africa

Ashley Nepp, MGIS, Minnesota, 2011 - GIS Lab Instructor

Jerry Pitzl, Ph.D., Minnesota, 1974, Professor Emeritus

- Laura J. Smith, Ph.D., Minnesota, 2004, Associate Professor urban economic, North America, Native Americans
- Daniel Trudeau, Ph.D., Colorado, 2006, Associate Professor urban social, political, cultural

MINNESOTA STATE UNIVERSITY, MANKATO

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1953 GRADUATE PROGRAM FOUNDED: 1953 DEGREES OFFERED: Geography B.A., B.S., M.S.; Earth Science B.A., B.S., B.S.Ed.; Geographic Information Science Certificate (Undergraduate and Graduate) GRANTED: 9/1/12-8/31/13: 66 Bachelors, 9 Masters STUDENTS IN RESIDENCE: 159 Majors, 18 Masters NOT IN RESIDENCE: 10 Masters CHAIR: Donald A. Friend DEPARTMENT OFFICE MANAGER: Carol Reedstrom

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, Minnesota State University, Mankato, 206 Morris Hall, Mankato, Minnesota 56001. Telephone (507) 389-2617. Fax (507) 389-2980. E-mail: carol.reedstrom@mnsu.edu Internet: http://sbs.mnsu.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES: Traditional and professionally oriented graduate and undergraduate programs are offered. Faculty expertise in GIS; remote sensing; GPS; cartography; quantitative and field methods; natural resources; biogeography; geomorphology; economic, political, urban and historical geography; and earth and atmospheric sciences. Regional emphases include North America – especially the American West and South, Latin America, the Caribbean, Europe, East and South Asia. Also offered are interdisciplinary undergraduate degrees in Earth Science and the Geography core for Social Science both with options for secondary teacher licensure.

The Department has two state-of-the-science geospatial analysis and cartographic computer laboratories. The 28-seat lab (PC-based) includes: the full suite of ESRI Products, TransCAD, SPSS, ERDAS Imagine, IDRISI, Trimble Pathfinder, and others. The 15-seat lab (Mac-based) includes: the full suite of Adobe products, SPSS, GRASS-GIS and others. Both labs are networked at high speed to departmental servers with 30 terabytes of dedicated memory. The labs each have color laser and wax, large format color inkjet, and b/w laser printers. For field mapping applications and training, the department has over two-dozen DGPS/GNSS units. The department also hosts a cutting edge weather and climate laboratory.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: The academic year has two 16-week semesters; a bachelor's degree requires 120 credit hours. The geography major

requires a 14-hour core and 18 hours of electives that must include foreign regional, seminar and techniques courses. A foreign language is required for the B.A. A financial aid brochure is available. Generally, entering freshmen must be in the upper half of their high school graduating class, and must maintain a 2.0 grade point average; similar criteria apply to transfer students.

GRADUATE: Thesis-plan candidates must complete 30 semester hours of graduate work; alternate-plan (internship) candidates must complete 34 semester hours. All requirements of the Graduate College must be met. Several assistantships with tuition waiver are available on a competitive basis. A completed bachelor's degree, undergraduate GPA of 3.0, three letters of recommendation and a 500-word statement of intent are required for admission. Scores from the GRE are not required for admission but will be considered.

FACULTY:

- Donald A. Friend, Ph.D., Arizona State, 1997, Professor physical, geomorphology, mountain environments, conservation
- Woo Jang, Ph.D., Georgia, 2012, Assistant Professor transportation, spatial analysis & modeling, GIScience, GPS
- Phillip Larson, Ph.D., Arizona State, 2013, Assistant Professor fluvial geomorphology, physical
- Jose Javier Lopez, Ph.D., Indiana State, 1998, Professor economic and social, Latin America, quantitative methods
- Cynthia A. Miller, Ph.D., Syracuse, 1991, Associate Professor historical, cultural, North America, field studies
- Martin D. Mitchell, Ph.D., Illinois, 1993, Professor climatology, natural resources, cartography, the American West and Middle West
- Rama Mohapatra, Ph.D., Wisconsin-Milwaukee, 2012, Assistant Professor — GIScience, remote sensing, urban, South Asia
- Ginger Schmid, Ph.D., Texas State, 2004, Associate Professor soils, geographic education, physical
- Forrest D. Wilkerson, Ph.D., Texas State, 2004, Associate Professor — field methods, biogeography, geomorphology, American West, Minnesota
- Fei Yuan, Ph.D., Minnesota, 2004, Professor remote sensing, GIScience, East Asia

ADJUNCT FACULTY:

Richard Moore, M.S., Minnesota State, 2004, Instructor — GIScience, GPS

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., BS-LS/MS (Bachelor of Science Land Surveying/Mapping Science)
- GRANTED 1/1/2014 to 1/1/2015: 50 Bachelors (various degree programs), 1 Masters
- MAJORS: 100 declared majors in the various degree programs
- CHAIR: David L. Wall

DEPARTMENT ADMINISTRATIVE ASST: Barbara Hartkopf

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. 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, an MS in Geography-Tourism Development, a GIS Graduate Certificate, as well as a B.S. degree in Land Surveying/Mapping Sciences (accredited by the Applied Science Accreditation Commission of ABET, http://www.abet.org), a B.A. in Travel/Tourism, a B.A. in Planning and Community Development and a B.S. in Social Studies Teaching,

The SCSU Department of Geography GIS lab utilizes 30 PC 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:

- Kevin M. Ahlgren: MS, Ohio State University, 2011, Assistant Professor — surveying, GPS, GIS
- 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, Assistant 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, Associate 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
- Kyle Ward, Ph.D., Indiana State University, 2007, Associate Professor — social studies education
- 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 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 7/1/13-6/30/14: 208 B.A./B.S., 6 M.A., 27 M.GIS, 3 Ph.D.
- STUDENTS IN RESIDENCE: 695 B.A./B.S.; 9 M.A.; 46 M.GIS; 41 Ph.D.

NOT IN RESIDENCE: 5

CHAIR: ABDI SAMATAR

DEPARTMENT ADMINISTRATOR: Glen L. Powell

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Sara Braun, DGS Assistant, Department of Geography, Environment and Society, University of Minnesota, 267 19th Avenue South, Minneapolis, MN 55455. Email: braun217@umn.edu Telephone (612) 625-0864. Fax (612) 624-1044. World Wide Web: http://www.geog.umn.edu/.

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.)—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: http://mgis.umn.edu/about/requirements.html.

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
- Kate Derickson, Ph.D., The Pennsylvania State University, 2011, Assistant Professor — Urban political economy, race and racialization, feminist and critical epistemology, engaged scholarship, land use and environmental politics, social and political theory
- Vinay K. Gidwani, Ph.D. UC-Berkeley, 1997, Associate Professor development economics; agrarian/environmental studies
- Kathryn Grace, Ph.D. UC-Santa Barbara, 2008, Assistant 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
- Brenda Kayzar, Ph.D., San Diego State University & University of California Santa Barbara, 2006, Assistant Professor — Urban and Cultural Geography, North American cities, Downtown revitalization, Arts and culture, Urban/Environment relations, Landscape and lifestyle commodification, Housing provision
- Kurt F. Kipfmueller, 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
- Lorena Muñoz, Ph.D., University of Southern California, 2008, Assistant Professor — Urban/cultural geography
- 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
- 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:

- Valentine Cadieux, Ph.D., University of Toronto, Research Associate — Cultural geography of land use change and the politics of planning processes at the urban-rural interface; alternative agrifood movements; the concepts of place, landscape, and nature.
- 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
- William Craig, Ph.D., Minnesota, 1980, Associate Director, Center for Urban and Regional Affairs, co-director of MGIS Program — geographic information systems, public policy analysis
- Jeff Crump, Ph.D., University of Nebraska-Lincoln, 1989, Associate Professor, Housing Studies — housing and patterns of urban development
- Timothy J. Griffis, Ph.D., McMaster University, 2000, Professor, Soil, Water and Climate — boundary layer climatology, biometeorology, land-atmosphere interactions
- Lawrence M. Knopp, Jr., Ph.D., Iowa, 1989, Director, Interdisciplinary Arts & Sciences, University of Washington Tacoma — urban, political, gender, sexuality, social theory
- 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: http://mgis.umn.edu/people/faculty.php.

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.A. and B.S. History; B.A. and B.S. Political Science; B.A. and B.S. Liberal Arts and Sciences; B.A. Philosophy; B.S. Public Administration; B.S.Ed. Social Science; M.A. History; M.S.Ed. Teaching History
- DEGREES GRANTED 9/1/13-8/31/14: 11 Bachelors; 9 M.S. GIScience; 15 Graduate GIScience Certificates

MAJORS: 40 in Geography/GIScience; 68 Masters in GIScience; 17 Graduate GIScience Certificates CHAIR: Joel Benson

SECRETARY: Angela Byers

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: abyers@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 30-37 credit hours and a minor, depending on the major emphasis and degree. The comprehensive major in geographic information science requires 53 credit hours. Minors offered by the department require 18-28 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 5 hours of thesis credit. The non-thesis research option requires completion of 33-36 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. 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, Middle East
- 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, Associate Professor GIS, remote sensing
- Kevin Romig, Ph.D., Arizona State, 2004, Assistant Professor urban, cultural, environment
- Yi-Hwa Wu, Ph.D., Utah, 2003, Associate Professor GIS, geocomputation

History

- Joel Benson, Ph.D., Miami, Professor
- Elyssa Ford, Ph.D., Arizona State, Assistant Professor
- Matt Johnson, M.A., Northwest Missouri State, Senior Instructor
- Dana Ternus, M.A., Northwest Missouri State, Lecturer
- Robert Voss, Ph.D., Nebraska-Lincoln, Assistant Professor

<u>Humanities</u> Dawn Gilley

Dawn Gilley, Ph.D., Missouri-Columbia, Assistant Professor

Philosophy

James Eiswert, Ph.D., University of Leuven, Associate Professor

Richard Field, Ph.D., Southern Illinois at Carbondale, Associate Professor

Political Science

- Kimberly Casey, Ph.D., Missouri-St. Louis, Assistant Professor
- Robert Dewhirst, Ph.D., Nebraska-Lincoln, Professor
- Brian Hesse, Ph.D., London School of Economics and Political Science, Associate Professor
- David Jerome, Ph.D., Arkansas-Fayetteville, Assistant Professor
- Ryan Reed, Ph.D., California-Davis, Assistant Professor
- Daniel Smith, J.D., Virginia, Assistant Professor
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 8-21-14 through 5-31-15: 25 Bachelors, 5 Masters

STUDENTS IN RESIDENCE: 51 Majors, 13 Masters CHAIR: Michael Urban

DEPARTMENT ADMINISTRATIVE ASSISTANT: Dina Nichols

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, University of Missouri-Columbia, 8 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 January 15. 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:

- 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:

- Jason Hinsen, B.S., University of Missouri-Columbia, 2005, Research Specialist
- Mark Duewell, Program Manager, Missouri Spatial Data Information Service (MSDIS) Missouri geospatial clearinghouse
- Timothy Haithcoat, M.S., Missouri-Columbia, 1987, Director, Geographic Resources Center (GRC) and MSDIS; Deputy Director, Center for Geospatial Intelligence — Spatial data analysis, digital image processing, conflation, error mapping
- James Harlan, M.A., Missouri-Columbia, 1996, Senior Research Specialist and Assistant Director, GRC — historical landscape ecology, spatial modeling, census and demographics, cartography
- Bryan D. Mayhan, M.A. University of Missouri, 2000, Research Associate — GIS and spatial analysis, soil genesis and morphology, hydrology, geomorphology, urbanization.
- Thomas Vought, ABD., Kansas State, 2011, Research Specialist Broadband mapping, human geography, cartography
- Martin Wills, B.Sc. (Hons) Environmental Science, Manchester Metropolitan University, UK, 1997, Internet Administrator website design and maintenance

MONTANA

THE UNIVERSITY OF MONTANA

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1956 GRADUATE PROGRAM FOUNDED: 1965 DEGREES OFFERED: B.A., B.S., M.A., M.S. GRANTED 9/1/13- 8/31/14: 22 Bachelors, 5 Masters STUDENTS IN RESIDENCE: 65 Majors, 15 Masters CHAIR: Christiane von Reichert

FOR FURTHER INFORMATION CONTACT: Department of Geography, The University of Montana, Stone Hall 208, Missoula, Montana 59812-0648. Telephone: (406) 243-4302. Fax: (406) 243-4840. E-mail: geog@umontana.edu. Internet: http://cas.umt.edu/geography/

PROGRAMS AND RESEARCH FACILITIES: The Bachelor of Arts program and the Bachelor of Sciences program are designed to provide students with an integrative, liberal-arts education. The programs are offered with or without an option. Areas of option include community and environmental planning (B.A.), and physical geography (B.S.). The department offers an Undergraduate Certificate in GIS Sciences and Technologies and houses 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. Students majoring in secondary education may elect geography as a major area of emphasis.

The Master of Arts program requires the completion of a minimum of 30 graduate credits, a thesis, and demonstrated competence in a symbolic language (a foreign language, mathematics, or computer science). It typically requires a commitment of two years. The Master of Sciences program allows one to pursue a degree in general geography, or a degree within one of two options: cartography and GIS, or community and environmental planning. Requirements for graduate credits and the thesis (e.g., thesis, professional paper, and non-thesis tracks) vary among the general degree and the options and generally require a commitment of two years. The symbolic language requirement must be met with a graduate level course in quantitative methods. Interdepartmental collaboration and research based upon field work are encouraged. Further information can be found at the department's website, http://cas.umt.edu/geography/.

Geography's Geospatial Research and Teaching (GReaT) Laboratories are comprised of a 24-seat teaching classroom and a 15-seat studentuse lab. A comprehensive selection of GIS software is available, including ArcGIS, ENVI, Erdas, Idrisi, PCIGeomatica, 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 January intersession; two five-week and one ten-week summer sessions; as well as specialized short-course sessions.

Prospective undergraduate students should consult *The University of Montana 2015-2016 Catalog* or contact Admissions and New Student Services at http://admissions.umt.edu/, for information regarding admission requirements.

Graduate applications must be accompanied by official transcripts, three letters of recommendation, official GRE or TOEFL 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 March 1^{st} for Fall Semester Admission and TA consideration. Applications for admission may be considered after March 1^{st} based on available capacity. To be considered for a teaching assistantship, complete applications to the graduate program are due no later than March 1^{st} and should include a letter stating interest in and describing qualifications for a TAship. Information regarding the graduate application procedure is available on The University of Montana's Graduate School website, http://www.umt.edu/grad/.

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://life.umt.edu/finaid/

- T.H. Diep Dao, Ph.D., North Carolina at Charlotte, 2013, Assistant Professor — Geographical Information Science (GIScience), spatial analysis and modeling, spatial data mining, geocomputation, GPS-based positioning and navigation
- Rick Graetz, Doctorate of Honorary Letters, Montana, 2004, Lecturer — Montana, mountains, North America
- Sarah J. Halvorson, Ph.D., Colorado, 2000, Professor health, gender, water resources, mountain environments, hazards, qualitative methods, Asia, Africa

- Ulrich Kamp, Dr. rer. nat. (Ph.D.), Technical University of Berlin, 1999, Professor — high-mountain geography, quaternary, geomorphology, glaciology, environmental and climate change, natural hazards, river restoration, remote sensing, Middle East, South Asia, South America, Europe
- Anna E. Klene, Ph.D., Delaware, 2005, Associate Professor climate, cryosphere, global change, remote sensing and GIS, Arctic and mountain geomorphology
- Kevin G. McManigal, M.S., Montana, 2011, Lecturer cartography, GIS, remote sensing, mountain geography, glaciology
- David D. Shively, Ph.D., Oregon State, 1999, Professor community and environmental planning, water resources, air quality, geomorphology, North America
- Thomas Sullivan, Ph.D., Louisiana State, 2010, Visiting Assistant Professor — social and cultural geography, urban/neighborhood planning, sustainable transportation, place and identity studies, American West
- Christiane von Reichert, Ph.D., Idaho, 1992, Professor and Chair migration, rural areas, economic geography, socio-demographic community analysis, transportation, geographically isolated regions and populations, 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
- Darshan S. Kang, Ph.D., Nebraska-Lincoln, 1975, Professor Emeritus — water resources, meteorology, field techniques, quantitative methods, South Asia
- Paul B. Wilson, Ph.D., Nebraska-Lincoln, 1972, Professor Emeritus — cartography and GIS, urban, North America

AFFILIATED FACULTY & ADJUNCT INSTRUCTORS:

Donald Alford, Ph.D., Colorado-Boulder, 1973 Heather Almquist, Ph.D., Lund (Sweden), 1994 Claudia Carr, Ph.D., Chicago, 1977 Faith Ann Heinsch, Ph.D., Texas A&M, 2002 Zachary A. Holden, Ph.D. Idaho, 2008 Ia Iashvili, Ph.D., Tbilisi State University, Republic of Georgia, 1998 Philip Maechling, M.L.A., Pennsylvania, 1975 Irena Mrak, Ph.D., University of Ljubljana, Slovenia, 2009 Caleb Pan, M.S., Montana, 2013 J. Alex Philp, Ph.D., Montana, 2005 Tamara Wall, Ph.D., Montana, 2007

NEBRASKA

UNIVERSITY OF NEBRASKA-KEARNEY

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1960 DEGREES OFFERED: B.A., B.S., B.A. Ed., B.S. Ed. GRANTED 9/1/2013 — 5/15/14: 7 Bachelors MAJORS: 28 CHAIR: Jason Combs DEPARTMENT ADMINISTRATIVE ASST: Valerie Vierk

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Jason Combs, Department of Geography, University of Nebraska-Kearney, 203 Copeland Hall, Kearney, Nebraska 68849. Telephone (308) 865-8355. E-mail: combshj@unk.edu. Internet: http://www.unk.edu/academics/geography/index.php.

PROGRAMS AND RESEARCH FACILITIES:

The department provides a well-rounded undergraduate major and minor in geography, including a B.S. degree emphasizing GIScience and an interdisciplinary Environmental Science minor. A teaching subject endorsement in geography is also available for students seeking education degrees. Department curriculum aims toward a broad yet integrated perspective on the discipline. The University of Nebraska-Kearney emphasizes undergraduate research and geography students have numerous opportunities for independent projects and to work closely with faculty on research initiatives. The department is located on the second floor of Copeland Hall. GIScience facilities include a ten-PC instructional lab equipped with adequate server storage, large-format scanner, ArcGIS, Erdas Imagine, Adobe Illustrator, SPSS, and Microsoft Office software. Additional PCs are available to support student and faculty research. Other equipment includes mapping-grade GPS units, a commercial-grade Gidding's probe with dedicated truck, spectra radiometer, soil moisture probe, evapotranspiration gage, water quality monitoring system, and portable and permanent weather stations. The department also houses a collection of historic air photos covering Nebraska and has an active Gamma Theta Upsilon chapter.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system, including four, five, and eight week summer terms. Additional information on admission and financial aid can be obtained by writing the Office of Admissions, University of Nebraska-Kearney, Kearney, Nebraska 68849 or consulting the University web site at http://www.unk.edu/index.php.

- John Bauer, Ph.D., Kansas 2006, Associate Professor cultural, North America, cartography, GIS
- Vijendra Boken, Ph.D., University of Manitoba 1999, Professor remote sensing, agriculture, water resources
- Paul Burger, Ed.D., Oklahoma State University 1997, Professor GIS, economic, population, political
- H. Jason Combs, Ph.D., University of Nebraska 2000, Professor and Chair — cultural, human, urban
- Jeremy Dillon, Ph.D., University of Kansas 2002, Associate Professor — soils, geomorphology
- Nathan Eidem, Ph.D., Oregon State University 2011, Lecturer GIS, environmental
- Matthew Engel, Ph.D., University of Nebraska 2007, Lecturer human, cultural, world regional

UNIVERSITY OF NEBRASKA-LINCOLN

FACULTY OF GEOGRAPHY AND GIScience DATE FOUNDED: 1906 GRADUATE PROGRAM FOUNDED: 1906 DEGREES OFFERED: BA, BS, MA, PhD DEGREES GRANTED 2013-2014: 10 Bachelors, 5 Masters, 2 PhD STUDENTS IN RESIDENCE: 33 Majors, 9 Masters, 4 PhD NOT IN RESIDENCE: 5 MA, 5 PhD DEPARTMENT CHAIR: Paul Hanson GRADUATE CHAIR: David Wishart

FOR INFORMATION CONTACT: Faculty of Geography and GIScience, School of Natural Resources, University of Nebraska-Lincoln, 3310 Holdrege St., Lincoln, NE 68583-0973. Telephone: (402) 472-2865. Fax: (402) 472-2946 E-mail: geography@unl.edu. Internet: http://snr.unl.edu/geographygis/

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, GIS and cartography), research skills and quantitative methods. The program prepares students for positions in government and industry, and also for graduate work in geography or related fields.

Graduate: Graduate students can pursue either an 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, GIS and cartography), capitalizing on the strengths and facilities of the Center for Advanced Land Management Information Technologies (CALMIT); (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; (3) Natural Resources. Students can pursue interdisciplinary studies in geomorphology, conservation biology, water resources, natural hazards, climatology and related areas in conjunction with faculty of the School of Natural Resources; and, (4) Community and Regional Planning. Students may pursue a cross-disciplinary PhD combining strengths of the Faculty of Geography and the Department of Community and Regional Planning.

Geography faculty and student offices are located in Hardin Hall, a modern research and classroom facility that also houses other units of the School of Natural Resources. The facility includes specialized laboratories and several nationally-recognized research centers including the Center for Advanced Land Management Information Technologies (CALMIT), the High Plains Regional Climate Center and the National Drought Mitigation Center. 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 closerange 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, the Department of Agronomy and Horticulture 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. Research assistantships may be available through the various Centers within the School of Natural Resources. 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.

- Douglas M. Amedeo, PhD, Iowa, 1967, Professor Emeritus spatial theory, quantitative analysis, environment and behavior, diffusion
- J. Clark Archer, PhD, Iowa, 1974, Professor political, settlement, computer cartography, GIS
- Rebecca A. Buller, PhD, Nebraska, 2009, Lecturer historical and cultural geography, historical geography of the Great Plains, women's and gender studies
- Kenneth Dewey, PhD, Toronto, 1973, Professor climate variations, severe weather
- Anatoly A. Gitelson, PhD, IRT, 1972, Professor Emeritus remote sensing of water quality, vegetation and the atmosphere
- Paul R. Hanson, PhD, Nebraska, 2005, Associate 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
- Merlin P. Lawson, PhD, Clark, 1973, Professor Emeritus, Geosciences — climate change, climate reconstruction, remote sensing
- Katherine Nashleanas, PhD, Nebraska, 2005, Lecturer human geography, ethnic studies, Africa, human dimensions of natural resources
- Juan Paulo Ramirez, PhD, Nebraska, 2003, Lecturer Latin America, environmental and human evaluations using GIS, design of surveys, statistical analysis
- Donald C. Rundquist, PhD, Nebraska, 1977, Professor Emeritus remote sensing, geographic information systems (GIS)
- Robert H. Stoddard, PhD, Iowa, 1966, Professor Emeritus human/social, field techniques; South Asia
- Brian D. Wardlow, PhD, Kansas, 2005, Associate Professor remote sensing, GIS, drought, land use/land cover characterization, biogeography, and environmental studies
- Donald A. Wilhite, PhD, Nebraska, 1977, Professor and Director, School of Natural Resources — climate, drought, human dimensions

- David J. Wishart, PhD, Nebraska 1971, Professor historical, dispossession of indigenous peoples, epistemology of Geography and History; Great Plains
- Arthur I. Zygielbaum, PhD, Nebraska 2009, Research Associate Professor — remote sensing of vegetation, GIScience

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 9/1/13-8/31/14: 30 Bachelors, 11 Masters STUDENTS IN RESIDENCE: 103 Majors, 54 Masters NOT IN RESIDENCE: 4 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 \$12,775 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, Associate 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 —
- 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
- James J. Hayes, Ph.D., Indiana University, Bloomington, 2008, Assistant Professor — remote sensing, landscape ecology, human-environment interaction, impacts of development and land change on ecological systems.
- 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, M.S. in Land Use Planning Policy; PhD in Geography

GRANTED 9/1/13-8/31/14: 13 Bachelors, 6 Masters, 3 PhD

STUDENTS IN RESIDENCE: 49 Majors, 12 Masters, 18 PhD

CHAIR: Scott A. Mensing

DEPARTMENT ADMINISTRATIVE ASST: Shari L. Baughman

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 humanenvironment 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
- Franco Biondi, PhD, Arizona, 1994, Professor climatology, dendrochronology, quantitative methods
- Douglas P. Boyle, PhD, Arizona 2001, Associate Professor surface water hydrology; snow hydrology; integrated modeling, paleoclimate modeling
- Christopher Garner, MS, University of Nevada, Reno, 2007 integrated hydrologic modeling, paleohydroclimatology and water markets
- Jill S. Heaton, PhD, Oregon State University, 2001, Associate Professor — arid land ecology, GIS, spatial statistics
- Jessie Clark, PhD, Arizona, 2012, Assistant Professor political geography, feminist geography, Kurdish and Turkish geography
- 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
- Rohit Patil, MS, University Nevada, Reno, 2003, Research faculty GIS programming, remote sensing
- 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
- Adam Csank, PhD paleoclimatology, isotope geochemistry, dendrochronology and plant-climate interations
- Brett Dickson, PhD conservation biology, landscape ecology, and ecological modeling & statistics
- Mella Harmon, MS, land use planning; historic preservation
- Jordan T. Hastings, PhD geocomputation, GIS, scientific modeling, cartography and visualization
- Michael Kaplan, PhD synoptic climatology
- Alexandra Lutz, PhD International water development, groundwater hydrology
- *Kenneth McGwire, PhD* energy and water balance; vegetation analysis; remote sensing
- David A. Mouat, PhD arid lands and landscape dynamics
- Kenneth Nussear, PhD distributional limitations of plants and animals; desert ecology; physiological ecology; conservation biology
- Victoria S. Randlett, PhD, urban, historical, social, geography of food and food systems

- *Fred Steinmann, DPPD* economic development, public policy, public administration and land use planning
- *Irene Tunno, PhD* paleoecology, palynology, forest ecology, dendrology, ecophysiology
- 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 9/13-6/14: 45 Bachelors MAJORS: 75 CHAIR: Susanne Freidberg DEPARTMENT ADMINISTRATOR: Kelly Palmer

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Professor Susanne Freidberg, 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.dartmouth.edu/~geog/.

PROGRAMS AND RESEARCH FACILITIES: Geography is housed in the Fairchild Science Center. Departmental facilities are excellent, and include well-equipped Geographic Information Systems Center, cartography and remote sensing laboratories, well-equipped tree-ring and sedimentology laboratories, 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 on in the local area, the department sponsors a foreign study 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.

- Jonathan W. Chipman, Ph.D., University of Wisconsin-Madison, 2001 — Remote Sensing, GIS, Spatial Analysis & Modeling
- Laura E. Conkey, Ph.D., Arizona, 1982, Associate Professor Dendrochronology, biogeography, climatology, field methods, feminism & science
- James T. Dietrich, Ph.D., University of Oregon, 2014, Neukom Fellow — Remote sensing, fluvial geomorphology, GIS, environmental monitoring
- Mona Domosh, Ph.D., Clark University, 1985, Professor Urban, historical, cultural, gender
- Coleen A. Fox, Ph.D., University of Oregon, 2000, Senior Lecturer Southeast Asia, political ecology, water resources
- Susanne Freidberg, Ph.D., Berkeley, 1996, Professor Agro-food, Africa, historical, political ecology, development
- Jaclyn HatalaMatthes, PhD., University of California, Berkeley, 2013, Assistant Professor — Ecosystem-atmosphere feedbacks, Greenhouse gas fluxes, Ecological dynamics

- Daniel E. Lawson, Ph.D., University Illinois, 1977, Adjunct Professor — Glacial geomorphology, Quaternary processes
- Patricia J. Lopez, Ph.D., University of Washington, 2014, Postdoctoral Fellow — Health, development, historical militarism
- Frank J. Magilligan, Ph.D., Wisconsin, 1988, Professor water resources, Fluvial geomorphology, watershed science
- Abigail H. Neely, Ph.D., University of Wisconsin-Madison, 2011, Assistant Professor — political ecology, health, development, feminist methods and science studies
- Yolande Pottie-Sherman, Ph.D., University of British Columbia, 2013, Postdoctoral Fellow — Urban, social, political, immigration, U.S. and Canada
- Xun Shi, Ph.D, University of Wisconsin-Madison, 2002, Associate Professor — GIS, spatial analysis, health, soil mapping
- Christopher Sneddon, Ph.D., University of Minnesota, 2000, Associate Professor — Political ecology, Southeast Asia, transnational rivers, environmental conflicts, sustainable development
- Jonathan M. Winter, Ph.D., Massachusetts Institute of Technology, 2009, Assistant Professor — Climate Impacts on Water Resources & Agriculture, Climate Variability and Change
- Richard Wright, Ph.D., Indiana, 1985, Professor Race, immigration, labor markets, housing markets

EMERITI FACULTY:

David T. Lindgren, Ph.D., Boston, 1969, Professor — 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 9/1/14-8/31/15: 12 Bachelors

MAJORS: 50

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 complimenting curriculum from other fields. Each programs 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 Certificate in GIS 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 Canadian Studies Center. An emeritus faculty, Maynard Weston Dow, is the creator of *Geographers on Film*, a record of the formative years of the discipline's modern intellectual development.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University employs a semester system for fall and spring and optional four-week January 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, a \$1,000+ scholarship, The John Ozog Award, is presented 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
- Patrick May, Ph.D., University of Maryland, 1999, Associate Professor and Coordinator of Geography — cultural geography, geographic education, urban geography, Africa
- 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
- 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

UNIVERSITY OF NEW HAMPSHIRE

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1968 DEGREES OFFERED: B.A. GRANTED 9/1/13-8/31/14: 7 Bachelors MAJORS: 34 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 Japan.

Faculty are currently engaged in research projects about globalization in the Middle East, immigration in New England, Antarctic sea ice, climate change in New England, coca farming social movements in Peru, 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
- Alasdair D. Drysdale, Ph.D., Michigan, 1977, Professor, Associate Dean, College of Liberal Arts — political, human, population and development, Middle East, Japan
- Blake Gumprecht, Ph.D., Oklahoma, 2000, Associate Professor and Chair — urban, cultural, historical, North America, New England
- Timothy Scott Pruett, Ph.D., West Virginia, 2012, Lecturer political geography, political ecology, rural development, Latin America
- *Tu Lan, Ph.D., North Carolina, 2014, Assistant Professor* economic geography, global production networks, transnational migration and entrepreneurship, critical theory, China, Italy
- 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 AND ENVIRONMENT DATE FOUNDED: 1970 DEGREES OFFERED: 5 baccalaureate degree programs (See below) GRANTED 9/1/14 – 8/31/15: 52 Bachelors MAJORS: 185 CHAIR: John Hasse DEPARTMENT ADMINISTRATIVE ASST: Laura Ruthig

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. John Hasse, Department of Geography and Environment, 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 a baccalaureate degree programs, four minors and four concentrations. The programs include a BA and minor in Geography, a BA and minor in Environmental Studies, a BS and minor in Planning, a BS and Minor in GIS and a BA in Integrated Studies in Geography and Environment. The concentrations include: Geoscience, variety of programs related to geography and the environment including five Environmental Science, Applied Geographic Knowledge and Skills (GeoEducation), Geographic Inquiries into Global Issues and a 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 three state of the art 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 projects. 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 & ENVIRONMENT 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 cultural, land use, urban, environmental science, GIS
- Jordan Howell, Ph.D., Michigan State University, 2013, Assistant Professor - waste, Hawaii, North America, technology, environmental policy
- Charles McGlynn, Ph.D., Rutgers University, 2011, Instructor water Resources, population, Asia, American and Russian studies

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 9/1/13-8/31/14: 12 Bachelors, 2
- Masters, 13 Ph.D.
- STUDENTS IN RESIDENCE: 51 Majors, 2 Masters, 46 Ph.D.

CHAIR: Richard Schroeder

GRADUATE DIRECTOR: Laura Schneider

DEPARTMENT ADMINISTRATIVE ASST: Cleo Bartos

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Undergraduate: Office of Undergraduate Admissions, Rutgers,

The State University of New Jersey, 65 Davidson Road, Room 202, Piscataway, New Jersey 08854-8097. Telephone (732) 445-4636. 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 geographyclimatology 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 State Climatologist, and maintains close ties with a number of interdisciplinary units across the university including the Center for Urban Policy Research, the Institute of Marine and Coastal Sciences, the Center for Historical Analysis, the Center for Cultural Analysis, Centers for African, Latin American, Latino and Hispanic Caribbean, South Asian and European Studies, 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 mixture 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, Assistant Professor - urban informality and governance, the political economy of displacement, political ecology, governmentality and rule, ethnography, Indian politics
- Robin Leichenko, Ph.D., Pennsylvania State, 1997, Professor economic geography, climate change vulnerability, human dimensions of global environmental change
- Joanna Regulska, Ph.D., Colorado, 1982, Professor women's political activism; grassroots mobilizations, human displacement, Central and Eastern Europe, Caucasus, European Union
- Asa Rennermalm, Ph.D., Princeton, 2007, Associate Professor physical geography, hydrology, climatology, Arctic region, Greenland ice sheet
- 1984, Professor David A. Robinson, Ph.D., Columbia, and N.J. State Climatologist --- climatology, cryosphere, regional climates, physical geography
- Laura C. Schneider, Ph.D., Clark, 2004, Associate Professor land change science, biogeography, remote sensing, GIS, and Latin America
- Richard 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

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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
- H. Briavel Holcomb, Ph.D., Colorado, 1972, Professor urban redevelopment, inequalities, tourism, cyberspace
- 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
- Frank J. Popper, Ph.D., Harvard, 1972, Professor land use, environmental and regional policy, natural resources management
- Karen M. O'Neill, Ph.D., California-Los Angeles, 1998, Associate Professor — environmental policy, water, state building, experts, organizations
- Edward Ramsamy, Ph.D., Rutgers, 2001, Associate Professor development, social theory, race, culture and identity, Southern Africa
- Thomas Rudel, Ph.D., Yale, 1977, Distinguished Professor land use change, sustainable development, environmental sociology, Latin America
- 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:

Michael Siegel, M.L.S., Rutgers, 1983, Cartographer

EMERITUS FACULTY:

Robert M. Hordon Bonnie McCay J. Kenneth Mitchell Peter O. Wacker

WILLIAM PATERSON UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND URBAN STUDIES

DATE FOUNDED: Re-established in 2005 DEGREES OFFERED: B.A. CHAIR: Monica Nyamwange DEPARTMENT ADMINISTRATIVE ASST: Mrs. Mayra Soto

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Monica Nyamwange, Department of Geography and Urban Studies, William Paterson University, 300 Pompton Road, Raubinger Hall, Room 425, Wayne, New Jersey 07470-2103. Telephone (973) 720-2520. Fax (973) 720-3793. Email: nyamwangem@wpunj.edu. Internet: http://www.wpunj.edu/cohss/departments/geography/.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and Urban Studies offers a B.A. degree in Geography. The department also offers minors in Geography and Urban Studies and a B.A. track in Urban/Economic/GIS. Our geography program seeks to provide students with necessary skills in analyzing and interpreting various social, economic, political and environmental issues at local, national and global levels.

Our geography program focuses on four major themes: (1) global human and environmental issues; (2) global population and cultural issues; (3) geographic information systems; and (4) global cultural and population issues. Majors can also participate in an Honors Program and other concentrations/minors within the College. The Department assists our majors in their search for internship opportunities by providing them with information, and possibly even contacts, but students are also encouraged to look for possible sponsors.

Geography students have access to well-equipped facilities, including a modern GIS and computer mapping lab, equipped with networked personal computers, SUN workstations, and high-speed plotters and digitizers. Geographic and cartographic software includes IDRISI, MapInfo, MapViewer, Surfer, and ARC/INFO.

The department sponsors the Gamma Theta Upsilon, the International Geographical Honor Society.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: William Paterson University is on a semester plan. Admission requirements are available from: Director of Admissions, Office of Admissions, William Paterson University, Morrison Hall, Wayne, New Jersey 07470 (http://www.wpunj.edu/admissions/). Financial Aid information may be obtained from the Director of Financial Aid, Financial Aid Office, Morrison Hall (http://www.wpunj.edu/financial-aid/).

- Ben Liu, Ph.D., University of California, Riverside 1998, Associate Professor — geographic information systems, spatial analysis, remote sensing, economic geography, Asia
- Monica Nyamwange, Ph.D., Rutgers University, 1988, Associate Professor and Chair — environment and humans, cultural and population issues, Africa
- Thomas Y. Owusu, Ph.D., University of Toronto, 1996, Associate Professor — urban geography, economic geography, North America, Africa

NEW MEXICO

NEW MEXICO STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1992 DEGREES OFFERED: B.S. Geography, Masters of Applied Geography GRANTED 9/1/13-8/31/14: 15 Bachelors, 8 Masters STUDENTS IN RESIDENCE: 65 Majors, 25 Masters DEPARTMENT HEAD: Dr. Christopher Brown DEPARTMENT SECRETARY: Susan DeMar

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Christopher Brown, Head, Department of Geography, MSC MAP, P.O. Box 30001, New Mexico State University, Las Cruces, New Mexico 88003 - 8001. Telephone (505) 646-1892. Fax (505) 646-7430. E-mail: brownchr@nmsu.edu. Internet: www.nmsu.edu.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers the following degree programs: B.S. in Geography (two distinct concentrations in Geographic information Science and Technologies (GIS&T) and Human Environment Relationships) and a Masters of Applied Geography. We stress GIS&T, geomorphology, biogeography, landscape ecology, arid environments, U.S.-Mexico border, water policy, transportation geography, remote sensing, environmental analysis, cultural geography, and the 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 an excellent 30-seat geospatial teaching classroom.

New Mexico State University is a land grant institution with a main campus enrollment of approximately 19,000. 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 admissions.nmsu.edu/contact-us/

or gradadmissions.nmsu.edu/admissions/. A variety of scholarships and fellowships are available through the department 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 AND PART-TIME FACULTY:

- Christopher P. Brown, Ph.D., San Diego State University, 1998, Associate Professor — U.S. Mexico border, water resource management, political ecology, GIS
- Micheala Buenemann, PhD., Oklahoma, 2007, Associate Professor arid environments, landscape ecology, GIS, remote sensing

- Carol J. Campbell, PhD., UCLA, 2005, Associate Professor biogeography, remote sensing, avian ecology, culture and environment
- Robert J. Czerniak, Ph.D., Colorado, 1979, Professor Emeritus land use, community development, urban geography, transportation planning
- Michael N. DeMers, Ph.D., Kansas, 1985, Professor GIS, landscape ecology, geospatial education, zoocartography
- Daniel P. Dugas, Ph.D., Oregon-Eugene, 1993, Assistant Professor — geomorphology, physical geography, Quaternary environments, soils
- John B. Wright, Ph.D., California-Berkeley, 1990, Professor cultural geography, environmental conservation, American West, New Mexico

ADJUNCT FACULTY:

- Terrence Huck, M.A.G., New Mexico State University, College Instructor, 1998 — climatology
- David Rachal, Ph.D. and M.S. New Mexico State University, 2007 (M.S.) and 2012 (Ph.D.) — geomorphology and soil science
- Walt Whitford, Ph.D., Rhode Island, 1964, Professor desert ecology

UNIVERSITY OF NEW MEXICO

DEPARTMENT OF GEOGRAPHY & ENVIRONMENTAL STUDIES DATE FOUNDED: 1961 GRADUATE PROGRAM FOUNDED: 1970 DEGREES OFFERED: B.A., B.S., M.S. GRANTED 9/1/13-8/31/14: 19 Bachelors, 5 Masters STUDENTS IN RESIDENCE: 59 Majors, 24 Masters CHAIR: K. Maria D. Lane

FOR FURTHER INFORMATION WRITE TO: Department of Geography & Environmental Studies, Bandelier West Room 111, MSC01-1110, 1 University of New Mexico, Albuquerque, New Mexico 87131-0001. Telephone (505) 277-5041. Fax (505) 277-3614. E-mail: geography@unm.edu. Internet: http://geography.unm.edu/

PROGRAMS AND RESEARCH FACILITIES: The geography department at UMN offers a B.A., B.S., and M.S. in geography. During the past several years the University of New Mexico has invested substantially in the department as evidenced by the addition of eight new faculty members. This reinvigorated department is now one of the most vibrant at UNM. 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. In addition, the student must enroll in courses from topical groups in Geographic Information Science and Human-Environment 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 often available through faculty research grants.

FACULTY:

- Melinda Harm Benson, J.D., University of Idaho College of Law, 1998, Associate Professor — environment & natural resource management, legal geography, social/ecological systems
- 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 Hadjilambrinos, 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
- 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
- Kim Seidler, M.S., University of New Mexico, Lecturer urban planning, land use management

EMERITUS FACULTY:

- Elinore M. Barrett, Ph.D., University of California Berkeley, 1970, Professor Emeritus — cultural-historical, Latin America
- Bradley T. Cullen, Ph.D., Michigan State University, 1980, Professor — environmental, economic, and social geography
- 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:

- Karl Benedict, Ph.D., University of New Mexico, 2004 geospatial data infrastructure, applied GIS, geodatabases, data fusion, interoperability
- Shawn Penman, Ph.D., University of New Mexico, 2002 GIS, emergency management, fire mapping, interactive web mapping
- Cody Wiley, M.S. University of New Mexico, 2007 biogeography, human-environment geography

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 9/1/13-8/31/14: 27 Bachelors, 15 Masters STUDENTS IN RESIDENCE: 105 Majors, 42 Masters CHAIR: Norah F. Henry DEPARTMENT SECRETARY: Maureen Truesdail

FOR FURTHER INFORMATION WRITE TO: Graduate Admissions, Binghamton University, P.O. Box 6000 Binghamton, New York 13902-6000. Telephone (607) 777-2151. Internet: www2.binghamton.edu/grad-school/. Geography Department (607) 777-2755. Fax (607) 777-6456.

Internet: geography.binghamton.edu. Graduate Program Director: Dr. John W. Frazier frazier@binghamton.edu mailing address: Dr. John Frazier, 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: Race and Ethnicity-This program emphasizes the importance of race and ethnicity in the socio-political-cultural environments of native and immigrant groups. Spatial settlement patterns, ethnic enclaves and dispersions and changes in the patterns permit students to learn historic and contemporary dimensions.

A list of employment of recent students is available upon request. Departmental facilities include Geographic Information System (GIS), remote sensing/air photo, and physical geography labs. The GIS laboratory consists of 60 networked microcomputers and 19 GPS receivers. Digitizers, 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 Conferences*.

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 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: www2.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
- Tim Frazier, Ph.D., Pennsylvaina State University, Associate Professor — human response to hazards, flooding, hurricanes
- Milton Harvey, Ph.D., University of Durham, England, 1966, Research Professor — regional analysis, behavioral geography, methodology
- Norah F. Henry, Ph.D., Kent State, 1976, Associate Professor and Chair — medical, social geography, Botswana Project Director, Puerto Rico Project Director

- Shin-Yi Hsu, Ph.D., UCLA, 1967, Professor Emeritus cartography, remote sensing and GIS, East Asia
- Naomi Lazarus, Ph. D., University of Connecticut, 2015, Visiting Assistant Professor — natural hazards, resource management
- 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
- Eugene Tettey-Fio, Ph.D., Kent State, 1996, Associate Professor 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, Assistant Director of GIS Core Facility — GIS
- 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
- Gordon Sheret, MA, Binghamton, 1997, Adjunct Lecturer GIS and computer programming
- 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

COLGATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY DEGREES OFFERED: B.S. CHAIR: Peter Klepeis DEPARTMENT ADMINISTRATIVE ASSISTANT: Tracy Piatti

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Peter Klepeis, Department of Geography, Colgate University, 13 Oak Drive, Hamilton, NY 13346. Telephone (315) 228-7534. E-mail pklepeis@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, biogeographies of endangered mitigation, international development, environment 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:

- Adam W. Burnett, B.S., Aquinas College, M.A., Ohio University, Ph.D., Michigan State University, William R. Kenan Jr. Professor of Geography
- Jessica K. Graybill, B.S., B.A., University of Arizona, M.S., Yale University, Ph.D., University of Washington, Seattle, Associate Professor of Geography
- Maureen Hays-Mitchell, B.A., Middlebury College, M.A., Columbia University, Ph.D., Syracuse University, Professor of Geography
- Peter J. Klepeis, A.B., Colgate University, M.A., Ph.D., Clark University, Associate Professor of Geography; Chair of the Department 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; Director of the Environmental Studies Program
- Michael M. Loranty, B.S., West Virginia Wesleyan College, Ph.D., SUNY Buffalo, Assistant 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, Associate Professor of Geography
- Autumn Thoyre, B.S., University of North Carolina, Chapel Hill, M.S., Lund University, Ph.D., University of North Carolina, Chapel Hill, Visiting Assistant Professor 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 Urban Studies

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 2013-2014: 5 Ph.D. STUDENTS IN RESIDENCE: 48 Ph.D. EXECUTIVE OFFICER (CHAIR): Cindi Katz PROGRAM ADMINISTRATOR: Lina McClain

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 Brooklyn, City, Hunter, John Jay, Lehman, and Queens Colleges, and the College of Staten Island. 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, 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@jjay.cuny.edu), or Program Administrator, Ms. Lina McClain (212-817-8240 or lmcclain@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 \$25,000 each year for the first five years of study. The fellowship consists of a \$23,000 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/Financial-Assistance/Fellowships-and-Grants#sthash.mT7IIPqx.dpuf.

- 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, Associate Professor; Ph.D., University of Vechta, Germany — Geographic Information Science; Hunter College, (212) 772-5221; jochen@hunter.cuny.edu
- Thomas Angotti, Professor; Ph.D., Ruigers University Urban planning and community development, environmental justice; Hunter College, 212-650-3130, tangotti@hunter.cuny.edu

- Stefan Becker, Professor, Dr. rer. nat., Justus-Liebig University -Giessen — Regional impacts of climate change, severe weather, and atmospheric pollution; Lehman College, 718 960-1120, Stefan.becker@lehman.cuny.edu
- James J. Biles, Associate Professor; Ph.D., Michigan State University — Development theories and policies, globalization and development, economic geography, Latin American Studies, work and labor; City College, (212) 650-5969; jbiles@ccny.cuny.edu
- Jean Carmalt, Assistant Professor, Ph.D., University of Washington & J.D. Cornell University School of Law — Law and Geography, international law, economic and social rights, political ecology of disasters; John Jay College, (212) 237-8195; jcarmalt@jjay.cuny.edu
- 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
- 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
- Roger A. Hart, Professor; Ph.D., Clark University Children's environments, child friendly cities, participatory action research; Graduate Center, (212) 817-1887; rhart@gc.cuny.edu
- 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, Assistant 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
- 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, Assistant Professor; Ph.D., University of Munster, Germany — Link data and semantic web, volunteered geographic information, emergency management, geospatial semantics; Hunter College, (212) 650-6472; carsten.kessler@hunter.cuny.edu
- Yehuda L. Klein, Professor; Ph.D., University of California, Berkeley — Environmental economics and policy, environmental justice, urban sustainability; Graduate Center, (212) 817-8240; 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 Systems; 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, 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
- 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
- John E. Seley, Professor; Ph.D., University of Pennsylvania GIS, urban planning; Graduate Center, (212) 817-8723; 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

- Monica W. Varsanyi, Associate Professor, Ph.D., University of California, Los Angeles — Migration and immigration studies, political geography and urban geography; John Jay College, (212) 237-8232; mvarsanyi@jjay.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. GRANTED 9/1/14-8/31/15: 46 Bachelors MAJORS: 140 CHAIR: Dr. Grant Saff DEPARTMENT ADMINISTRATIVE ASST: Christine Kempski

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. Internet: gsgeog@Hofstra.edu. World Wide Web: http://www.hofstra.edu/geography

PROGRAMS AND RESEARCH FACILITIES: The Bachelor of Arts in Geography is offered by Hofstra's College of Liberal Arts and Sciences. The Department offers a wide selection of Geography courses, balancing offerings in thematic and regional Geography. Particular strengths are urban, economic, transportation, Latin American and Sub-Saharan Africa. The Department also offers a very 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 Scholarship, of approximately \$5,000, to a major in the Department in their senior year. Selection is based on a combination of academic merit and financial need. This award is in addition to any 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 here.

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. All resident students have direct Internet access from their residence hall rooms and the campus, including our building, is wifi 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 a 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. Our Department offers both a BA in Geography and a BA in Global Studies. Students may dual major in both programs. A B.A. in Geography entails a minimum of 30 semester hours in geography 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. At least 6 s.h. must come from our topical course offerings and at least 6 s.h. from our regional offerings (see our website for detailed course information). We allow up to 9 sh of selected global studies, geology, environmental systems and urban ecology courses to count toward the 30 s.h. required for the major in geography. We also offer a Geography Major with a concentration in GIS. A minor in Geography consists of the successful completion of 18 semester hours of geography, at least 9 s.h. in geography courses must come from 100-level courses. Required courses: GEOG 1, 2.

A 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. Both 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. Admission to Hofstra is selective. From a large and talented applicant pool, we have enough space in our freshman class to offer admission to only slightly more than 50 percent of those who apply. Average undergraduate class size is 21 students and the student-faculty ratio is 14 to 1. Hofstra offers a variety of scholarships based on academic performance as well as financial need. Financial assistance from Hofstra is renewable, based on criteria for each particular program. In 2013, the average financial aid package for First-time Full-time Freshman was \$25,833. Admissions requirements, university catalogs, financial aid and program information can be obtained by calling (516) 463-6600 or is available on Hofstra's website.

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.
- Zilkia Janer, Ph.D., Duke, 1998, Professor Global Studies Program - Culture, food culture
- 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, Transport and commercial geography, GIS, East and Southeast Asia
- Grant Saff, Ph.D., Rutgers University, 1996, Professor Urban geography, urban planning, economic geography, Southern Africa

PART-TIME GEOGRAPHY FACULTY:

- Hewan Girma, MA, Fordham, 2006, Adjunct Instructor Africa, development, urban. economic, medical
- Nisha Korattyswaroopam, Ph.D, Rutgers University, 2010, Adjunct Assistant Professor — urban geography, South Asia
- Ying Qui, Ph.D, Birmingham (UK), 2004, Adjunct Assistant Professor — Asia, economic geography, environment
- Timothy Smith, EDD., Rutgers University, 1968, Adjunct Professor Europe
- Judith Tabron, Ph.D., Brandeis, 1999, Adjunct Assistant Professor Global culture, popular culture
- James Wiley, Ph.D., Rutgers University, 1991, Adjunct Professor Economic geography, Latin America and the Caribbean

HUNTER COLLEGE-CUNY

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1921 GRADUATE PROGRAM FOUNDED: 1985 DEGREES OFFERED: BA Geography, BA Environmental Studies, MA Geography, BA/MA-TEP Environmental Studies-Earth Science Education, MA-TEP Earth Science Education CERTIFICATE OFFERED: Geographic Information Science (post-Baccalaureate) GRANTED 9/1/13-8/31/14: 49 Bachelors; 8 Masters; 12 Certificates STUDENTS IN RESIDENCE: 185 Majors, 35 Masters, 47 Certificates CHAIR: Prof. Allan Frei

DEPARTMENT EXECUTIVE ASST: Dana G. Reimer

FOR FURTHER INFORMATION WRITE TO: Department of Geography, Hunter College-CUNY, 695 Park Ave., 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 in Hawai'i, Argentina, and the Catskills

The MA program in geography emphasizes geographic and social theory and analytical methodologies in human, physical, and environmental geography, 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. A 15-credit postbaccalaureate Certificate Program in Geographic Information Science was established in 2001 to meet the demand for people with expertise in GIS. While separate from the MA in Geography, graduate students may complete the GIS certificate concurrently, with specific course credits used to satisfy the requirements of both programs. 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.

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 Prof. Cindi Katz at (212) 817-8240 or e-mail: ckatz@gc.cuny.edu.

The department is affiliated with the New York Geographic Alliance. It has taken steps in encouraging the participation of minority students in the profession and in returning geography to prominence in the curriculum of the NYC public school system through its outreach programs.

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 a copy of the Hunter College Catalog or information regarding financial aid should contact the Welcome Center (212) 650-3336. Program online catalogs be viewed can 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.

- Sean C. Ahearn, Ph.D., Wisconsin, 1986, Professor and Director, CARSI Laboratory — GIS, remote sensing, digital image processing, natural resources, habitat studies
- Jochen Albrecht, Ph.D., Vechta (Germany), 1995, Associate 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 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 and Graduate Adviser — urban, GIS applications, quantitative analysis, China
- Mohamed Ibrahim, Ph.D., Alberta, 1985, Assistant Professor environmental studies, resource management, sustainable development, Africa, rural water supply and sanitation
- Carsten Kessler, Ph.D., Münster (Germany), 2010, Assistant Professor and Associate Director, CARSI Laboratory — Geographic information science, geospatial semantics, linked data, semantic web, volunteered geographic information, emergency management
- Teodosia Manecan, Ph.D., Bucharest, 1985, Lecturer petrology, mineralogy, historical geology, field geology, geology of U.S., environmental geology, economic geology
- Peter J. Marcotullio, Ph.D., Columbia, 1996, Professor and Director, CUNY Institute for Sustainable Cities — urban environmental change, globalization and urban development, urban growth and environmental transitions, ecosystem approaches to urban and regional environmental planning, impacts of urbanization on the environment, 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
- Randye 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

AFFILIATED AND LONG-TERM ADJUNCT FACULTY:

- Saul B. Cohen, Ph.D., Harvard, 1955, University Professor Emeritus and Regent of the State of New York — political geography, Middle East and Israel, geography and psychology, international development, geographic education
- Jack Eichenbaum, Ph.D., Michigan, 1972, Adjunct Associate Professor — urban, real estate research, geography of NYC area
- Anthony Grande, M.S.Ed., Catholic University of America, Adjunct Lecturer — general geography, geographic education, regional geography of NYS
- Roger A. Hart, Ph.D., Professor, Environmental Psychology Ph.D. Program, CUNY Graduate Center
- 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
- John Seley, Ph.D., Professor, Environmental Psychology Ph.D. Program, CUNY Graduate Center
- Henry Sirotin, 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 Assistant Professor — GIS applications, spatial aspects of crime.

For a complete list of current adjunct teaching faculty: www.geography.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, Undergraduate Geography Adviser Martha Taylee. Administrative Assistant

Martna Taylee, Aaministrative Assistant

Thomas B. Walter, M.A., Miami (Ohio) — Research Associate, UNIX/LINUX Systems Administrator and Undergraduate Geography Adviser

STATE UNIVERSITY OF NEW YORK, BUFFALO STATE

DEPARTMENT OF GEOGRAPHY AND PLANNING DATE FOUNDED: 1965 DEGREES OFFERED: B.A., B.S. GRANTED 8/31/13-8/31/14: 16 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 offers two undergraduate degrees, a B.A. in Geography and a B.S. in Urban-Regional Analysis and Planning (Urban Planning). The Geography B.A. has three concentrations: Meteorology and Climatology; Watershed and Ecosystems; Economic Geography and Development; and GIS. The Urban Regional Planning B.S. emphasizes the applied aspects of physical land use planning and planning for sustainable communities. Coursework in GIS is emphasized in both 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 with local agencies and consulting firms and independent research.

The Department's environmentally-oriented undergraduate programs are 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 business and technical communication. Students in the M.S. also intern with environmental agencies and graduates of the program 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, Associate Professor — physical geography, fluvial geomorphology, watershed planning, stream assessment
- 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, Associate 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
- Mary Rossi, M.S., SUNY Buffalo State, 1998, Lecturer New York State geography, physical and urban geography

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 - COLLEGE AT GENESEO

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1965 DEGREES OFFERED: B.A. GRANTED 9/1/13-8/31/14: 27 Bachelors MAJORS: 93 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, Assistant 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, Associate Professor — cultural, historical, environmental, Canada
- Jennifer Rogalsky, Ph.D., U of Tennessee, Knoxville, 2006, Associate Professor and chair — urban, developing world, Ghana, poverty
- I. Ren Vasiliev, Ph.D., Syracuse, 1996, Professor cartography, cultural, United States, statistics

SYRACUSE UNIVERSITY

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1931 GRADUATE PROGRAM FOUNDED: 1926 DEGREES OFFERED: B.A., M.A., and Ph.D. GRANTED 9/1/13 - 8/31/14: 18 Bachelors, 3 Masters, 8 Ph.D. STUDENTS IN RESIDENCE: 59 Majors, 9 Masters, 17 Ph.D. NOT IN RESIDENCE: 2 Masters, 5 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/geo/.

PROGRAMS AND RESEARCH FACILITIES:

The Syracuse University Department of Geography is characterized by dynamic scholarship and teaching that builds on almost a century of distinguished achievement. Our location within the nation's top school of public policy, the Maxwell School, ensures that geographers can address both the real-world policy implications and the scholarly meaning of their research. Interdisciplinary links are not limited to the Maxwell School, 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 that are applied in a wide array of regions, places, and landscapes. Recent graduate students have conducted field research in the Caribbean, Central and South America, Europe, Southeast 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:

Culture, Justice, and Urban Space: 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.

Environmental Science and Landscape Dynamics: Physical geographers at Syracuse University 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.

Gender, Identity and Citizenship: At Syracuse, geographers study gendered spaces of everyday life as sites of oppression and resistance where identities are made and re-made across the landscape. We examine the gendering of geopolitical relationships that structure human migration, labor practices in the global economy, gender and the city, memory, social justice, historical geography, feminist methodologies, and other critical standpoints from which to study men's and women's places in the world. Central to each of these themes is a re-working of the concept of citizenship.

Geographic Information Technology: Faculty in this focus have a range of research and teaching interests, including cartography, applications and methods in geographic information technologies (i.e., geographic information systems, 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 geospatial surveillance technologies; modeling channel migration; applications of satellite remote sensing to studies of tropical forest structure, demography, and multiple-use tree species; and participatory GIS mapping of community concerns. Faculty and students involved with the Syracuse Community Geography Program use GIS and other geospatial technologies in partnership with members of the Central New York community to map and spatially analyze a wide variety of social justice topics. Graduate students train and conduct research in both our Geographic Information and Analysis Laboratory and the Integrated Spatial Analysis Laboratory, funded by a Major Research Instrumentation grant from NSF.

Globalization and Regional Development: At Syracuse, geographers research the relationship between flows and networks of activity, interaction and power that are producing an increasingly interconnected world, and the historical and geographical contexts within which the lives of people and places are transformed. By focusing on globalization processes, we examine the complex, and often contradictory, mechanisms 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.

Nature, Society, Sustainability: Nature-society scholarship at Syracuse includes land-use and land-cover change in tropical forests using remotely sensed data, environmental history of western North America, the political ecology of rural livelihoods in Andean South America, and the environmental impacts of the mining industry. Syracuse geographers also study sustainable development, nature conservation and protected areas, forest fire dynamics and management, environmental mapping and its societal impacts, media coverage of environmental issues, and human impacts on climate, vegetation and landform processes.

Political Economy: Syracuse geographers understand political economy to be a social relationship. This social relationship 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 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.

Within the Maxwell School, the department has links with numerous interdisciplinary programs and centers: International Relations; Gender and Globalization; Interdisciplinary Statistics Program; Social Science; 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; Syracuse Social Movements Initiative; and the South Asia Center. A notable opportunity is the concurrent master's degree in Geography and the top-ranked **Public** Administration program. This nationally concurrent degree provides an outstanding training for a public sector career. (58 credit hours are required; information upon request.) Study the critical development geography and physical in 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, the Integrated Spatial Analysis Laboratory, and the Cartographic Laboratory which provides support for teaching and research. 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. Jane Read, Undergraduate Director (jaread@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 finally, 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, DellPlain Assistantship in Latin American Geography, 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:

- 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, Associate Professor Geographic information systems modeling, human impacts on physical environments, fluvial systems
- 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, Assistant Professor — political geography, nationalism, geopolitics, post-Soviet Central Asia, Arab Gulf states, higher education, qualitative methods
- Susan W.S. Millar, Ph.D., Rutgers, 1995, Associate Professor physical geography, periglacial geomorphology, microclimatology, Arctic environmental science
- Don Mitchell, Ph.D., Rutgers, 1992, Distinguished Professor of Geography — cultural, historical, labor, social theory, Marxist approaches to geography.
- 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, Professor and Graduate Director — political ecology, environment and development, social movements, Latin America
- Jane M. Read, Ph.D., Louisiana State, 1999, Associate Professor and Director of Undergraduate Studies — 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, Assistant Professor — Community geography, Geographic Information Systems, participatory GIS, participatory action research, public health geography, qualitative research methods
- David J. Robinson, Ph.D., London, 1967, DellPlain Professor of Latin American Geography — Latin American development, colonialism, historical, the Internet
- 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, Associate Professor and Chair — race/ethnicity, urban/social geography, immigration, gender, U.S. South, qualitative and historical research methods, social theory, social theory

ADJUNCT FACULTY:

- 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
- 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
- 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

EMERITI FACULTY:

- David J. deLaubenfels, Ph.D., Illinois, 1953, Professor Emeritus biogeography, urban physical environments, circum--Pacific
- 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 comparative urbanization, urban housing, Canada
- James L. Newman, Ph.D., Minnesota, 1968, Professor Emeritus population, diet-nutrition, tropical Africa

UNITED STATES MILITARY ACADEMY

DEPARTMENT OF GEOGRAPHY AND

ENVIRONMENTAL ENGINEERING DATE FOUNDED: 1802 DEGREES OFFERED: B.S. GRANTED 08/01/14-08/31/15: 29 Bachelors of Geography MAJORS: 97 Geographers; 57 Geospatial Information Science; 254 total CHAIR: Colonel Wiley C. Thompson, 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. Email: 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 five major areas: human geography, environmental geography, environmental engineering, environmental science, and geospatial information science. Geography majors take 10 to 12 geography courses in addition to the Academy's 30-course core curriculum (that includes a physical geography course). 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 new 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.

- John A. Brockhaus, Ph.D., Idaho, 1986, Professor GIS, forestry, photogrammetry, remote sensing
- Michael A. Butkus, Ph.D., Connecticut, 1997, Professor environmental engineering
- Jeremy C. Conner, M.S., Oregon State, 2013, Instructor GIS
- Philip J. Dacunto, Ph.D., Stanford University, 2013, Assistant Professor & Academy Professor — environmental engineering
- Ran Du, M.S.E., Johns Hopkins, 2014, Instructor environmental engineering
- Curtis B. Edson, M.S., University of Wisconsin, 2002, Assistant Professor – GIS
- Steven D. Fleming, Ph.D., Georgia, 2004, Associate Professor (GIS) & Academy Professor — GIS, remote sensing, physical geography
- Matthew C. Haith, M.S., Stanford University, 2012, Instructor environmental engineering
- Jay A. Ireland, M.S., Hawaii, 2013, Instructor (Geography) critical geopolitics
- Marie C. Johnson, Ph.D., Brown, 1990, Professor geology, ecology, environmental science
- Adam J. Kalkstein, Ph.D., Arizona State University, 2008, Assistant Professor (Geography) — climatology, physical geography
- Mindy Kimball, Ph.D., Arizona State, 2014, Assistant Professor & Academy Professor — environmental science
- Richard L. Knox, M.A., Texas, 2013, Instructor (Geography) geomorphology
- Lauren A. Koban, M.S., University of North Carolina, 2014, Instructor — environmental science
- Amy Krakowka, Ph.D., Boston University, 2005, Associate Professor (Geography) — physical geography, environmental geography, energy, environmental economics
- Andrew D. Lohman, Ph.D., Illinois, 2009, Assistant Professor (Geography), Academy Professor, & Geography Program Director — human geography, political geography
- Jon C. Malinowski, Ph.D., North Carolina-Chapel Hill, 1995, Professor (Geography) — cultural geography, environmental perception, geography of childhood, spatial behavior, Asia
- Douglass Macpherson, M.S., Naval Postgraduate School, 2005, Instructor (Geography) — meteorology
- Dylan W. Malcomb, M.S., Texas, 2012, Instructor (Geography) & Executive Officer — Africa, development, & environmental security
- Dave McCarthy, M.S., Akron, 1996, Instructor (Geography) physical geography
- John M. Melkon, II, MPIA, Texas A&M, 2005, Director, Center for the Study of Civil-Military Operations (CSCMO) — civilmilitary operations
- Patrick G. Miller, M.A., Oregon, 2013, Department Operations Officer & Instructor (Geography) — political geography, cultural geography, migration
- Robert W. Nahabedian, M.S., Georgia Institute of Technology, 2013, Instructor — environmental engineering
- Christopher E. Oxendine, Ph.D., George Mason, 2013, Assistant Professor — GIS
- Christian A. Robbins, M.S., Colorado State, 2012, Instructor environmental engineering
- Richard F. Rogers III, M.S., Stanford University, 2014, Instructor environmental engineering
- Gavin D. Schwan, M.S., Texas, 2013, Instructor (Geography) economic geography, Latin America
- James A. Sturm, M.S., Missouri University of Science & Technology, 2004, Instructor (Geography) — physical geography
- Mark A. Smith, Ph.D., Wisconsin-Madison, 2002, Assistant Professor & Academy Professor — environmental engineering, environmental science

Jeffrey A. Starke, Ph.D., Wisconsin-Madison, 2011, Associate Professor & Academy Professor — environmental engineering

- Colin M. Tansey, M.S., Naval Postgraduate School, 2009, Instructor (Geography) — physical geography
- Wiley C. Thompson, Ph.D., Oregon State, 2008, Department Head & Associate Professor (Geography) — environmental geography, hazards, physical geography, military geography
- Richard L. Wolfel, Ph.D., Indiana, 2001, Associate Professor (Geography) — cultural geography, Europe, Russia, political geography, social geography, quantitative methods
- David C. Zgonc, M.S., Carnegie Melon University, 2014, Instructor environmental engineering

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., AND M.R.P. GRANTED 9/1/13-8/31/14: 17 Bachelors, 31 Masters STUDENTS IN RESIDENCE: 173 Majors, 93 Masters CHAIR: Catherine T. Lawson DEPARTMENT SECRETARY: Lisa M. Baker

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. Fax (518) 442-4742.

E-mail: lbaker@albany.edu or geog@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 Department has close ties with local, regional and state agencies, and numerous undergraduate and graduate internship opportunities are available. Several of the faculty have strong international research programs, notably in China, Russia, Latin America and Africa. 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.

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, cartography). An undergraduate degree option is also available in Urban Studies and Planning and 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 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. Departmental faculty participate in doctoral supervision for students with compatible interests through Ph.D. programs in Information Science, Sociology, and Earth and Atmospheric Sciences.

State of the art instructional and laboratory facilities are available to students. The GIS Lab runs a full complement of GIS, remote sensing, image processing and statistical software. The Remote Sensing and Image Analysis Labs contain workstations, peripheral devices and an extensive collection of air photography and satellite images. The Planning Studio offers dedicated project workspace and facilities for computer-aided design and production of technical reports. The Integrated Undergraduate Physical Geography Laboratory includes a Geochemistry Laboratory fully equipped for analysis of air, water and soil samples, and the Mohawk Climatological Observatory, with a professional Weather-Monitor meteorological station. The University Libraries have extensive holdings in geography and planning, and major collections are also available at the New York State Library.

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.

- Carlos Balsas, Ph.D., University of Massachusettes-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

- 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
- John S. Pipkin, Ph.D., Northwestern University, 1974, Distinguished Service Professor — urban, urban design, American cultural landscapes, quantitative methods
- Joseph A. Sarfoh, Ph.D., University of Cincinnati, 1976, Associate Professor (Primary Appointment in Africana Studies) regional development, resource management, Africa
- Christopher J. Smith, Ph.D., University of Michigan, 1975, Professor — urban, social, medical, China, East Asia, Asian Americans

ADJUNCT FACULTY:

- Elisabeth Egetemeyr, Ph.D. UAlbany SUNY, 2007 Human Geography
- Todd M. Fabozzi, MRP, UAlbany-SUNY, 1994 regional planning, GIS, regional growth analysis
- Rocco A. Ferraro, MCRP, Ohio State, 1975, AICP planning, land use, growth management
- Glenn Harland, MA, UAlbany-SUNY, 1994 physical geography, GIS
- Thomas F. Hart Jr., MA, SUNY College of Environmental Science & Forestry — Advanced Remote Senising GIS, Applied Land Use and Land cover Mapping, Regional Modeling
- Marcia Kees, BA, SUNY Owego, New York State Office of Parks Recreation and Historic Preservation — Coordinator of New York State Heritage Area Program
- Sean Maguire, MPA, AICP, UAlbany SUNY 2014 Economic Development Planner and Project Manager
- Neusa McWilliams, Ph.D., UC Berkeley 1996 Urban Geography
- Christopher J. O'Connor, UAlbany-SUNY, 2002 GIS, Water Resources, Flood Hazards
- *Jeffrey S. Olson, MA, SUNY Empire State, 1993* bicycle and pedestrian transportation planning
- Kurt Swartz, MA, SUNY College of Environmental Science & Forestry 1982, New York State Department of Environmental Conservation, GIS Section Chief
- S. Thyagarajan, MCRP, Ohio State, 1963, AICP comprehensive planning, site planning, growth management, Site planning, community planning, waterfront planning

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 & PhD in Geography; BA & MA in International Trade GRANTED 9/1/13-8/31/14: Geography: 28 Bachelors, 15 MA, 11 MS, 5 PhD; International Trade: 45 Bachelors STUDENTS: 124 Majors, 54 Masters, 45 Doctoral

STUDENTS: 124 Majors, 54 Masters, 45 Doctoral CHAIR: Sharmistha Bagchi-Sen DEPARTMENT ADMINISTRATOR: Jeanine McKeown

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. 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 general areas of concentration supported by the Department are Geographic Information Science, Earth Systems Science, Urban and Regional Analysis, International Business and World Trade, and Health Geography.

Geographic Information Science is concerned with the acquisition, manipulation, simulation, and visualization of spatial and remotely sensed data. The use of digital spatial data sets to analyze as well as illustrate spatial patterns has intensified interest in a broad range of disciplines. Academic study of GIS may also focus upon improving the algorithms and data structures used.

Earth Systems Science examines modern environmental problems through quantitative analysis and modeling grounded in basic and applied science. The goal of the program is to provide specialized training in watershed processes, terrestrial ecology, hydrology, natural resources, and land management at a variety of scales. Students learn marketable skills for careers in environmental sciences and related areas.

Urban and Regional Analysis offers an array of courses on contemporary urban and regional systems. Faculty members have developed strong relationships with other departments at UB, including Economics, Planning, Sociology, Industrial Engineering, Political Science, and Law.

International Trade degrees (BA and MA), newly established in the Department of Geography, prepare students to critically assess the process of globalization operating in the world today, including the growth of multinationals and foreign direct investment, international trade, the internationalization of capital and financial markets, new international divisions of labor, and the rapid development of technology and innovations. These changes are resulting in global restructuring and new patterns of uneven development. Critical social, economic, and environmental challenges face corporate decision-makers, government policy makers, and non-governmental organizations. The BA and MA degrees are designed to prepare undergraduates and masters students for a professional and/or academic career in this challenging and exciting world of international business and trade. You will be exposed to a wide-range of perspectives on the global economy, and will develop important skills in policy and data analysis at various geographic scales.

Geography of Health, in addition to the four areas of geography described above, is emerging as a new faculty and graduate student research focus.

GRADUATE DEGREE PROGRAMS:

The Department of Geography offers graduate training leading to the Geography degrees BA/MA, Master of Arts, Professional Master of Arts (portfolio option), Master of Science, Master of Arts in International Trade, and Doctor of Philosophy.

A master's degree may be designed as a terminal degree (including a portfolio option), or may be used as the basis for more advanced graduate study. Pursuit of the portfolio option in Earth Systems Science or Geographic Information Science would 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. Students seeking admission to this option must be accepted by both academic units and complete 78 hours of graduate study. In addition, the Department 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. Additionally, we now offer a Master of Science degree intended for students specializing in applications of analytical techniques to the field of geography.

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. Programs are designed on an individual basis and students are required to demonstrate acceptable levels of skill in computer applications, programming, and statistics.

ADMISSIONS & FINANCIAL AID: University at Buffalo (UB), The State University of New York, a member of the prestigious Association of American Universities, is the largest, most comprehensive, public undergraduate and graduate university in New York State, enrolling over 28,000 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 14260-1660 or email: ub-admissions@buffalo.edu.Telephone (888) UB-ADMIT or (716) 645-6900.

Undergraduate Financial Aid:

Please see http://admissions.buffalo.edu/costs/index.php or write to Student Response Center, 232 Capen Hall, University at Buffalo, Buffalo, New York 14260. Telephone (866) 838-7257 or (716) 645-2450. For Honors Program and Presidential Scholarships: http://honors.buffalo.edu/prospective/scholarships.php or write to University Honors Program, University at Buffalo, 214 Talbert Hall, Buffalo, NY 14260. Telephone (716) 645-3020.

Graduate admissions: 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 universitywide 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 go to www.buffalo.edu/cas/geography/graduateprogram.html

RESEARCH FACILITIES & FACULTY:

The Department has excellent computational and computer graphics equipment housed in the Geographical Information and Analysis Laboratory (GIAL). In addition, the Department has experimental flume, soils and biogeography laboratories. The University is a partner in the National Center for Geographic Information and Analysis (NCGIA), established by the National Science Foundation (NSF) to promote basic and applied research related to GIScience. For additional information see: www.ncgia.buffalo.edu. The Department also houses the Canada-United States Trade Center (CUSTAC): www.buffalo.edu/cas/geography/custac.html

The Department of Geography currently has 18.5 active faculty members with research interests in a wide variety of areas. Our faculty members have been formally recognized by SUNY-wide and national teaching and research awards.

- Jared Aldstadt, Ph.D., San Diego State University/UC Santa Barbara, 2007, Associate Professor — medical geography, spatial epidemiology, GI Science, spatial analysis
- Sharmistha Bagchi-Sen, Ph.D., University of Georgia, 1989, Professor and Chair — urban and economic geography
- Sean J. Bennett, Ph.D., Binghamton University-SUNY, 1993, Professor — sediment transport mechanics, gully erosion, reservoir sedimentation, and watershed processes
- Ling Bian, Ph.D., North Carolina-Chapel Hill, 1991, Professor GIS for environmental modeling, spatial representation, remote sensing, image retrieval, spatial scale, physical geography
- Thomas Bittner, Ph.D., Technical University of Vienna, 1999, Associate Professor — formal ontology, qualitative spatiotemporal reasoning, theoretical foundations of GIS
- Abigail Cooke, Ph.D., University of California, Los Angeles, 2014, Assistant Professor — economic geography
- Trina Hamilton, Ph.D., Clark University, 2006, Associate Professor — international trade, corporate responsibility
- Geoffrey Jacquez, Ph.D., SUNY Stony Brook, 1989, Professor medical geography, spatial analysis, exposure assessment
- Chris P.S. Larsen, Ph.D., McMaster, 1994, Associate Professor landscape ecology, vegetation dynamics, fire, tree-ring analysis, fossil pollen analysis
- Nicholas Lustig, Ph.D., University of California, Los Angeles, 2014, Assistant Professor — urban geography
- D. Scott Mackay, Ph.D., University of Toronto, 1997, Professor hydrology, soil-vegetation-atmosphere linkages, watershed modeling, GIS and remote sensing
- Sara S. Metcalf, Ph.D., University of Illinois, Urbana-Champaign, 2007, Associate Professor — urban social dynamics, agentbased modeling
- Jessie Poon, Ph.D., Ohio State University, 1993, Professor international trade, multinational corporations (international business), Third World development and Asia
- Chris S. Renschler, Ph.D., University of Bonn, 2000, Associate Professor — environmental modeling, GIScience, remote sensing, global position systems (GPS), land use/natural resource/environmental 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 (VGI), BigData, critical GIS, social media, gender and technology
- Le Wang, Ph.D., University of California, Berkeley, 2003, Associate Professor — GIScience, image understanding, landscape dynamics
- Marion Werner, Ph.D., University of Minnesota, 2010, Assistant Professor — labor, feminist and postcolonial theory, political economy, geographies of global production, Latin America and the Caribbean
- Eun-Hye Enki Yoo, Ph.D., UC Santa Barbara, 2006, Associate Professor — GIScience, geostatistics, spatial statistics, public health and environmental modeling, spatial hedonic modeling

EMERITI FACULTY (partial listing):

- Athol D. Abrahams, Ph.D., Sydney, 1971, UB Distinguished Professor — fluvial geomorphology
- David M. Mark, Ph.D., Simon Fraser, 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, 1968, Professor fluvial geomorphology

VASSAR COLLEGE

DEPARTMENT OF EARTH SCIENCE AND GEOGRAPHY DATE FOUNDED: 1920 DEGREES OFFERED: B.A. GRANTED in 2015: 14 Bachelors MAJORS: 37 CHAIR: Mary Ann Cunningham DEPARTMENT ADMINISTRATIVE ASSISTANT: Lois Horst

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Department of Earth Science and Geography, Box 735, Vassar College, Poughkeepsie, NY 12604. Telephone (845) 437-5540. Fax (845) 437-7577. E-mail: geo@vassar.edu. Internet: http://earthscienceandgeography.vassar.edu/

PROGRAMS AND RESEARCH FACILITIES: Founded in 1861 as one of the first U.S. colleges for women, Vassar College has been coeducational since 1969. Vassar now offers a highly selective liberal arts education to approximately 2,400 undergraduates. Courses in geology and geography have been taught since the 19th century. Ellen Churchill Semple received her B.A. in 1882 and her M.A. in 1891 at Vassar. In 1920 the Department of Geology and Geography was established with concentrations in both disciplines. Specific research themes include: Earth Science, global and area studies, population and sustainable development, political geography, migration and ethnicity, land use planning, comparative urbanization, economic geography, and historic preservation. In 2004, the department changed its name to Earth Science and Geography. Geography offers its own major as well as joint concentrations with both anthropology and earth science. In addition, Geography participates in the multi-disciplinary programs in Environmental Studies, American Studies, Urban Studies, International Studies, Africana Studies, Latin American Studies, Asian Studies, and Women's Studies. The college is a U.S.G.S. and AMS map depository; the Thompson, Van Ingen, Lockwood, Rivers and Ingram libraries contain more than a million books, some 3,000 periodicals,

serials, and newspapers, and a rare book collection containing historic atlases and maps. The art gallery is noted for its collection of Hudson River School paintings. Departmental facilities include a GIS laboratory, a variety of microcomputers, and the Warthin Museum of Geology and Natural History. Fieldwork and internships are available with local planning agencies and non-profit environmental groups.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Students academically qualified for admission find that Vassar offers generous financial aid to approximately 60 percent of the student body. Research assistance from Dana, Ford, and Mellon grants is also available.

FACULTY:

- Susan G. Blickstein, Ph.D., Clark University, 2008, Adjunct Assistant Professor — Urban geography, social movements, transportation planning
- Mary Ann Cunningham, Ph.D., University of Minnesota, 2001, Associate Professor — Biogeography, GIS, environmental science, North America, Caribbean
- Harvey K. Flad, Ph.D., Syracuse University, 1973, Professor Emeritus — Cultural, social, historical landscapes, environmental assessment and planning, North America, Africa, Central Asia
- Brian J. Godfrey, Ph.D., University of California-Berkeley, 1984, Professor — Urban, cultural, historical, North America, Latin America, Brazil, Amazonia
- Kirsten Menking, Ph.D., University of California-Santa Cruz, 1995, Associate Professor — Environmental, geomorphology, paleoclimatology
- Joseph Nevins, Ph.D., University of California-Los Angeles, 1998, Associate Professor — Political, historical, U.S.-Mexico border, E. Timor, human rights
- Jill S. Schneiderman, Ph.D., Harvard, 1987, Professor Environmental, sedimentology, history and philosophy of science, gender
- Jeffrey R. Walker, Ph.D., Dartmouth, 1987, Professor Optical and x-ray mineralogy, igneous and metamorphic petrology, volcanology, hydrogeology, soils
- Yu Zhou, Ph.D., University of Minnesota, 1995, Professor Economic, technology innovation, development, China, East Asia, United States immigration, ethnic economies

NORTH CAROLINA

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: 41 BS Geography, 5 BA Geography, 29 Atmospheric Science, 9 GIS, 26 Planning, 15 Masters CHAIR: Burrell Montz 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 Allen (allenth@ecu.edu). Graduate Inquiries: Dr. Scott Curtis (curtisw@ecu.edu). View website at http://www.ecu.edu/geog/.

PROGRAMS AND RESEARCH FACILITIES:

Undergraduate tracks include the B.A. in Geography and 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 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 Faculty expertise clustered areas. is around the following: Sustainability and Environmental Justice; Environmental Geography; 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, hydrology lab, and three labs devoted to G.I. Science and 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. 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:

- Thomas R. Allen, Ph.D., UNC Chapel Hill, 1995, Associate Professor — GIS, RS, environmental change and ecological modeling, coastal
- Beth A. Bee, Ph.D., Pennsylvania State University, 2011, Assistant Professor — Feminist theory, global change, international development
- Traci L. Birch, Ph.D., University of New Orleans, 2011, Assistant Professor — Coastal planning, ecosystem management, environmental planning
- W.R. Scott Curtis, Ph.D., Wisconsin, 1998, Associate 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
- 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

- Ron Mitchelson, Ph.D., Ohio State, 1979, Provost and Professor spatial analysis of urban-economic processes; transportation, GIS applications
- 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
- Viva Reynolds, Ph.D., Kentucky, 2006, Teaching Assistant Professor — geomorphology, human impacts on rivers
- 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
- Scott Wade, M.A., East Carolina, 1990, Instructor GIS applications, computer cartography, ESRI-certified
- Thad Wasklewicz, Ph.D., Arizona State University, 1996, Professor — terrestrial processes and forms, GIS applications
- Yong Wang, Ph.D., Santa Barbara, 1992, Professor remote sensing, GIS, image processing and analysis technology, wetland modeling
- Jerry Weitz, Ph.D. Portland State University, 1999, Associate Professor & Planning Program Director — growth management, land use, zoning
- Mulatu Wubneh, Ph.D. Florida State University, 1976, Professor regional planning, planning techniques, capacity building

ADJUNCT FACULTY:

- Huili Hao, Ph.D., UNC Charlotte, Adjunct Assistant Professor sustainable tourism, land use, policy
- Katherine Jones, Ph.D., Kentucky, Adjunct Assistant Professor urban development and political processes
- Ernest Marshburn, PhD., East Carolina University, Adjunct Assistant Professor – coastal resources management
- Heather Ward, PhD., East Carolina University, Adjunct Assistant Professor – coastal resources management

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 (2013-2014) 58 B.A (majors; plus 66 minors), 6 M.A., 9 Ph.D.
- STUDENTS IN RESIDENCE: 85 Majors, 86 Minors, 36 M.A./Ph.D.
- NOT IN RESIDENCE: 4 M.A./Ph.D.

CHAIR: Michael Emch

DEPARTMENT ADMINISTRATIVE STAFF: Barbara Taylor; Nell Phillips; Daniel Warfield

FOR FURTHER INFORMATION CONTACT: Scott Kirsch, Director of Graduate Studies, Department of Geography, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-3220. Telephone: (919) 962-3874. Fax: (919) 962-1537. Email: kirsch@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:

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.

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.

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.

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.

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:

- Lawrence E. Band, Ph.D., UCLA, 1983, Voit Gilmore Distinguished Professor — hydrology, geomorphology, ecosystems, GIS, remote sensing, environmental modeling
- Stephen S. Birdsall, Ph.D., Michigan State, 1968, Professor place meaning and regional identity, social, North America
- Xiaodong Chen, Ph.D., Michigan State, 2010, Assistant Professor human-environment interactions, modeling and simulation, GIS, environmental policy, China
- Altha J. Cravey, Ph.D., Iowa, 1993, Associate Professor international development, social theory, gender, Latin America
- Michael Emch, Ph.D., Michigan State 1998, Chair and Professor medical, GISci, population-environment, South Asia
- Banu P. Gökariksel, 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, Assistant Professor — population, environment and development; survey and statistical methods
- Elizabeth Havice, Ph.D., University of California, Berkeley 2009, Assistant 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, GIS, 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 GIS/remote sensing, biogeography

- Elizabeth Olson, Ph.D., Colorado, 2005, Associate Professor Development and Inequality, Religion, Global Studies, Moral Geographies
- Lauren Persha, Ph.D., Indiana University, 2008, Assistant Professor — conservation, development, political ecology, Africa
- 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
- Alvaro Reyes, Ph.D., Duke University, 2009, Assistant Professor urban and political geography, Black geographies, Latin American movements,
- 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, GIS
- Stephen J. Walsh, Ph.D., Oregon State, 1977, Professor remote sensing, GIS, physical, land use change, human-environment interaction, spatial modeling
- Gabriela Valdivia, Ph.D., Minnesota, 2005, Associate Professor political ecology, critical resource geography, environmental governance, Latin America

Stephen Walsh, Lyle V. Jones Distinguished Professor

Erika Wise. Ph.D., Arizona 2009, Assistant Professor — Climatology, dendrochronology, water resources

PROFESSORS EMERITI:

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 7/1/13-6/30/14: 62 Bachelors, 24 Masters, 9 Doctorate

STUDENTS IN RESIDENCE: 241 Undergraduate Majors 43 Masters, 25 Ph.D.

NOT IN RESIDENCE: 31 Undergraduate Majors DEPARTMENT ADMINISTRATIVE ASSISTANT: Teresa Cleveland

FOR ADMISSIONS SEE: http://graduateschool.uncc.edu/futurestudents/admissions International students should also see http://graduateschool.uncc.edu/futurestudents/admissions/international-applicants

FOR PROGRAM INFORMATION SEE:

http://www.geoearth.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: Jake Armour jarmour@uncc.edu Geography Undergraduate Coordinator: Jamie L. Strickland jstrickl@uncc.edu Meteorology Undergraduate Coordinator: Terry Shirley trshirle@uncc.edu Earth Sciences MS Coordinator: Scott Hippensteel shippens@uncc.edu Geography MA Interim Coordinator: Eric Delmelle Eric.Delmelle@uncc.edu Geography Ph.D. Interim Director: Janni Sorensen jsorens2@uncc.edu

PROGRAMS AND RESEARCH FACILITIES:

In 2006, the Department of Geography and Earth Sciences initiated a new Ph.D. program in Geography and Urban Regional Analysis focused on two interconnected research themes: multi-scalar analysis and GIScience. Pairing technology and theory 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 a strong, applied Master of Arts program in Geography. There are four areas of specialization within the M.A. in Geography. These include concentrations in GIScience and technology, location analysis and urban 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 department also offers an M.S. degree in Earth Sciences which offers multiple options for interdisciplinary training and research, particularly for students interested in meteorology and geology.

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. in Geography program, 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, their 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 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 and 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 the 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.edus/index.asp

Graduate Geography: Departmental graduate assistantships are awarded on a competitive basis to qualified students, and we also strive to provide summer support for qualified students. Doctoral assistantships currently carry stipends of at least \$14,000 and can include healthcare insurance, and a tuition waiver through the Graduate School. Masters assistantships have a competitive stipend of at least \$10,000. 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. Application forms can be downloaded from the Graduate School's website: http://graduateschool.uncc.edu/futurestudents/admissions. 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. Applications for assistantships should be received by February 15th. Awards are announced as soon after April 1 as possible. Applications for admission for the Fall Semester should be received by July 1. Financial aid is possibly available for students who enter in the Spring semester as well. Prospective graduate students are encouraged to visit the Department.

Graduate Earth Sciences: Departmental graduate assistantships are awarded on a competitive basis to qualified students, and we also strive to provide summer support for qualified students. Masters assistantships have a competitive stipend of at least \$10,000. 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. Application forms can be downloaded School's from the Graduate website: http://graduateschool.uncc.edu/future-students/admissions. An official transcript of all previous academic work is required, plus scores from the general aptitude section of the Graduate Record Examination. An undergraduate Earth Sciences, Geology or Meteorology degree is preferred but not required. Those students who are deficient in the basic concepts and methods in their chosen field of study will be required to take prerequisite coursework. Applications for assistantships should be received by February 15th. Awards are announced as soon after April 1 as possible. Applications for admission for the Fall Semester should be received by July 1. Financial aid is possibly available for students who enter in the Spring semester as well. Prospective graduate students are encouraged to visit the Department.

FULL AND PART-TIME FACULTY:

- Craig J. Allan, Ph.D., York University, 1992, Professor and Department Chair — hydrology, environmental chemistry
- 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, Associate Professor and Department Associate Chair economic geography, regional development, regional analysis.
- Casey Davenport, Ph.D. North Carolina State University, 2011, Assistant Professor — Severe weather meteorology.
- 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.
- 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 Interim Coordinator (2015-2016) of the Geography Master's Program — GIS, spatial analysis, geovisualization
- 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, Associate Professor — soils
- Patricia Fall, Ph.D., University of Arizona, 1988, Professor Biogeography, paleoecology, human impact on ancient environments
- Owen J. Furuseth, Ph.D., AICP, Oregon State University, 1978, Professor, Geography Ph.D. Director, and Associate Provost for Metropolitan Studies and Extended Academic Programs — Community Planning
- Sarah Gagne, Ph.D. Carlton University 2009, Assistant Professor Urban Ecology
- Bill 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.
- 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, Assistant Professor — biogeophysical modeling, atmospheric sciences, global change.
- Tyrel G. Moore, Ph.D., University of Tennessee, 1984, Professor regional development and planning, urban planning methods, small town planning
- Terry Shirley, M.S., Pennsylvania State University 2004, Lecturer 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. and MA Programs — urban, social, global/local restructuring, immigration
- Janni Sorensen, Ph.D. University of Illinois, 2007, Associate Professor and Interim Director (2015-16) Geography Ph.D. Program — 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, Assistant Professor Geospatial Analysis.
- Jean-Claude Thill, Ph.D., Universite Catholique deLouvain, 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.
- Qingfang Wang, Ph.D., University of Georgia, 2005, Associate Professor — urban-economic, population, ethnic labor markets
- Wei-Ning Xiang, Ph.D., University of California at Berkeley, 1989, Professor — GIS, urban and regional planning

EMERITI PROFESSORS:

John F. Bender David T. Hartgen Gerald L. Ingalls Sallie M. Ives J. Dennis Lord Walter E. Martin Nelson Nunnally Norman W. Schul John Sommer Alfred W. Stuart Wayne A. Walcott

WINSTON-SALEM STATE UNIVERSITY

DEPARTMENT OF HISTORY, POLITICS and SOCIAL JUSTICE

DEGREES OFFERED: NA, Concentration in Urban Studies through B.A. in Interdisciplinary Studies

GRANTED: NA

CHAIR: Donald Mac-Thompson, Ph.D.

DEPARTMENT ADMINISTRATIVE ASST: Ms. Wanda Parker

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Russell M. Smith, Department of History, Politics and Social Justice, Winston-Salem State University, 601 S. Martin Luther King Jr. Drive, Coltrane Hall 108, Winston-Salem, NC 27110. Telephone (336) 750-8822. Fax (336) 750-2647. E-mail: smithrm@wssu.edu. Internet: http://www.wssu.edu/profile/dept/hpsj/smithrm/

PROGRAMS AND RESEARCH FACILITIES: The Department of History, Politics, and Social Justice is home to numerous Geography course offerings. The Department offers a wide variety of Geography courses that expose students to the breath and depth of geographic concepts and themes. These courses include: Introduction to Geography, Geography of North America, Environmental Geography, Urban Geography and World Economic Geography. WSSU also offers Introduction to Geographic Information Systems in the oncampus GIS lab featuring 28 computers each with ArcGIS. Additionally, students interested in urban geography related issues may obtain a B.A. in Liberal Studies with a depth study in Urban Studies. The Urban Studies Program requires students to take Introduction to Urban Studies, Internship in Urban Studies and the Urban Studies Seminar. Students can supplement their Urban Studies coursework with a wide-variety of Geography courses. Students, researchers, and faculty also have the opportunity to collaborate with several University Center's including the Center for Community Safety and the S.G. Atkins Community Development Corporation in order to gain practical knowledge and experiences.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Winston-Salem State University is on a semester plan. Students may enroll full or part time and courses are available both on campus and online. Admission requirements are available from: Director of Admissions, Office of Admissions, Winston-Salem Winston-Salem, North State University, Carolina 27110 (http://www.wssu.edu/admissions/default.aspx). Financial Aid information may be obtained from the Director of Financial Aid, Office Financial Aid, Thompson Center of (http://www.wssu.edu/admissions/financial-aid/default.aspx).

FACULTY:

Russell M. Smith, Ph.D., University of North Carolina at Greensboro, 2007, Associate Professor — urban geography, political geography, urban and regional planning, GIS, North America, South Asia

NORTH DAKOTA

UNIVERSITY OF NORTH DAKOTA

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1885 curriculum in Geology, 1942 Independent

GRADUATE PROGRAM FOUNDED: 1920

DEGREES OFFERED: B.S., M.A., M.S., Graduate Certificate in GISc

GRANTED 7/1/13-6/30/14: 4 Bachelors, 7 Masters, 20 GISc

STUDENTS IN RESIDENCE: 30 Majors, 13 Masters

NOT IN RESIDENCE: 31 GISc

CHAIR: Gregory S. Vandeberg

DEPARTMENT ADMINISTRATIVE ASST: Cindy Purpur

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Department of Geography, 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@email.und.edu. Internet: http://arts-sciences.und.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES:

UND awards a Bachelors of Science degree with a Major in Geography with three options: community and urban development, environmental geography, and geographic education (36 semester hours each). 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, business, finance, anthropology, Indian studies, recreation and tourism 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 Department houses a spatial analysis laboratory with a full range of image processing and geographic information systems hardware and software. A variety of field equipment is also available for field research projects. Faculty techniques interests include geographic information systems, 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 http://www.go.und.edu/.

Graduate: Entering graduate students must have completed an undergraduate major and hold a Bachelors degree in geography 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 \$14,151 with a full tuition waiver and basic single student health coverage.

FACULTY:

- Christopher J. Atkinson, Ph.D., Kansas, 2010, Assistant Professor climatology, GIS, Great Plains
- Devon A. Hansen, Ph.D., Utah, 1999, Associate Professor population, migration, gender issues, community development, Great Plains
- Douglas C. Munski, Ph.D., Illinois, 1978, Professor historical, geographic education, tourism, Canada, North Dakota
- Michael A. Niedzielski, Ph.D., Ohio State, 2009, Assistant 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, Associate Professor — fluvial and glacial geomorphology, water resources, heavy metals in the environment, GIS, remote sensing
- Enru Wang, Ph.D., Washington, 2005, Associate Professor economic, regional development, urban, China, GIS

ADJUNCT FACULTY:

- Philip J. Gerla, Ph.D., Arizona, 1983, Associate Professor (Geology and Geological Engineering) — hydrology
- Rebecca L. Phillips, Ph.D., North Carolina, Research Plant Physiologist (USDA Agricultural Research Service) ecosystem biochemistry, remote sensing
- Santhosh K. Seelan, Ph.D., Jawaharlal Nehru Technological University, 1994, Professor (Space Studies) — remote sensing, developing countries, geospatial techniques
- Jeffrey A. VanLooy, Ph.D., Utah, 2007, Assistant Professor (Earth Systems Science and Policy) — fluvial geomorphology, glaciology, remote sensing

OHIO

KENT STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1914 GRADUATE PROGRAM FOUNDED: 1935 DEGREES OFFERED: B.A., M.A., Ph.D. CRANTED (1/12 5/21/14: 26 Bachelorg, 0 Mag

GRANTED 6/1/13-5/31/14; 36 Bachelors, 9 Masters, 6 Ph.D.

STUDENTS IN RESIDENCE: 75 Majors, 13 Masters, 27 Ph.D.

NOT IN RESIDENCE: 3 Masters, 5 Ph.D. CHAIR: Mandy Munro-Stasiuk GRADUATE COORDINATOR: Scott Sheridan UDERGRADUATE COORDINATOR: David Kaplan DEPARTMENTAL SECRETARY: Mary Lou Church GRADUATE SECRETARY: Tracee Young

FOR CATALOG AND FURTHER INFORMATION VIEW OUR WEBSITE: http://www.kent.edu/geography/. Visit us at: Kent State University, 413 McGilvrey Hall, Kent, Ohio 44242, USA.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers B.A., M.A. and Ph.D. degrees. We offer comprehensive and relevant curricula at all levels and have major research specialties in social and environmental justice, and climatology and hazards. We are especially interested in these relative to the urban environment and their impact on human health and wellbeing. While preparing our students with a strong theoretical base, our approach is very applied, utilizing state-of-the art geospatial technologies to understand these complex human-environment interactions.

The baccalaureate degree program offers a major and a minor in geography. In addition, minor programs are available in Climatology, GIS, and Urban Studies. The Master of Arts degree emphasizes the acquisition of application-oriented research skills as well as expertise in the major subfields of geography. The Ph.D. program is individually designed for each student who wishes to conduct research in selected areas of faculty specialization. Current graduate faculty research interests include: behavioral, biogeography, borderlands, climatology, cultural, economic, environmental, ethnicity, geographic information science, glacial and fluvial geomorphology, hazards, industrial, medical, metoerology, methods, political, population, regional development, remote sensing, transportation, urban, and the regional specialties of Central and South American, Africa, southeast Asia, and Europe.

Research facilities include a 1.7 million volume library, the University map collection (over 200,000 sheets), and university and statewide online 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, earth science research, hazards and transportation. Software currently running with site licenses includes ArcInfo, ArcGIS, ArcGIS Server, ArcSDE, ArcIENVI, ERMapper, PCI Geomatica, ERDAS, eCognition, SPSS, SAS, MapInfo, Surfer, Adobe Illustrator and Adobe Photoshop, among others. Additional facilities and equipment include an on-line national weather monitoring station, local weather stations, a national climate database, weather related field instruments, a suite of GPS units (differential and WAAS enabled), large format poster printers, several windows-based servers, and access to a suite of supercomputers in the Ohio Supercomputer Center. Finally, a Physical

Geography Laboratory is dedicated for instruction of physical geography and related courses.

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 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: Admission to Kent State University will be accorded to those students who successfully complete a college preparatory high school degree program with a minimum 2.5 out of 4.0 grade point average. All other applicants will be admitted on a conditional basis. 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 43 semester hours. These hours consist of 22 hours of core geography courses and at least 21 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, Cartography, Urban Studies, Climatology, and Asian Studies are offered through the Department. Internships in these programs are available. Both a Geography Club and Gamma Theta Upsilon are active.

Apply online: http://www.kent.edu/admissions/Apply/index.cfm.

Graduate: All applicants for admission to the M.A. and Ph.D. 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. 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. Applicants to the Ph.D. program should have completed a thesis. A minimum of thirty-two (32) hours of credit are required for the M.A. degree. Sixty semester hours beyond the Masters degree are required for the Ph.D., with thirty of these credits assigned to the dissertation. Applications are especially encouraged from qualified students representing all minority groups, the physically disabled, and women.

Financial aid is available in the form of graduate assistantships, university fellowships, and tuition scholarships. Applicants are asked to apply by January 1st for fall enrollment. Research Assistantships from funded research projects are also available. All appointments provide a complete remission of fees, and appointees are classified as Ohio residents for fee purposes. Submit applications on line: http://www.kent.edu/admissions/Apply/.

FACULTY:

- Kay Amey, Ph.D., Kent State University, 2011, Assistant Professor (K.S.U. Ashtabula) — hydrology, environmental geology, hydrogeology, environmental geography
- Andrew Curtis, Ph. D., State University New York Buffalo, 1995, Professor — geographic information science, hazards and disasters, mapping epidemics, public health mapping, crime mapping
- Jacqueline Mills Curtis, Ph.D., Louisiana State University, 2005, Assistant Professor — geographic information systems, geospatial technologies, natural disasters, built environment, maternal child health

- Mary Ann Haley, Ph.D., Kent State University, 1985, Assistant Professor — economic development, industrialization, North America, Europe, Post-Soviet Eurasia
- David H. Kaplan, Ph.D., Wisconsin, 1991, Professor urban, political, ethnicity, population, nationalism
- Jay Lee, Ph.D., Western Ontario, 1989, Professor spatial analysis, methodology, geographic information science, urban sprawl
- Jennifer Mapes, Ph.D., University of Southern California, 2009, Assistant Professor — urban geography, community planning, small towns in the U. S., sustainable development
- Keith Muller, Ph.D., Wisconsin-Milwaukee, 1987, Associate Professor (Trumbull Campus) — agriculture, population, rural settlement, Brazil, Latin America
- Mandy J. Munro-Stasiuk, Ph.D., Alberta, 1999, Professor and Chair — glacial environments, remote sensing, geoarchaeology, karst environments.
- Rebecca P. Parylak, Ph.D., Texas State San Marcos, 2009, Associate Professor — climatology, natural hazards, physical geography
- Christopher W. Post, Ph.D., University of Kansas, 2006, Associate Professor (Stark Campus) — landscape and memory, identity and sense of place, micropolitics of place, historical geography, geography education, exurbanization, popular culture
- Thomas W. Schmidlin, Ph.D., Cornell, 1984, Professor meteorology, climatology, natural hazards, cold regions, Ohio, geography of wine
- Scott C. Sheridan, Ph.D., Delaware, 2000, Professor synoptic climatology, climate change, bioclimatology, meteorology
- Eric Shook, Ph.D., University of Illinois at Urbana-Champaign, 2013, Assistant Professor — cyberGIS, geographic information science, agent-based modeling, epidemic simulation
- Sarah L. Smiley, Ph.D., University of Kansas, 2007, Associate Professor (Salem Campus) — urban, cultural, and historic geography, Sub-Saharan Africa
- Kelly Turner, Ph.D., Arizona State University, 2013 Assistant Professor — sustainable urban planning, institutional analysis, environmental decision-making and management, urban ecology, water resources
- James Tyner, Ph.D., Southern California, 1995, Professor population geography, political geography, geopolitics, military geography, and geographic thought
- Emariana Widner, Ph.D., Texas State San Marcos, 2009, Associate Professor — urban ecology, resource conservation, environmental philosophy and perception, ecological and multiagent modeling
- Xinque Ye, Ph.D., Assistant Professor geographic information science, 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 9/1/13-8/31/14:33 Bachelors, 5 Masters
- STUDENTS IN RESIDENCE: 78 Geography and Urban & Regional Planning Majors, 13 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 has comprehensive GIS/computing facilities to support instruction and research in geography. These facilities include a state of the art 26-seat GIS and remote sensing focused computer lab with ESRI, ENVI, ERDAS, and Idrisi spatial analysis software installed.. 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 2013-2014 stipends are \$14,562 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, \$12,762 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 (\$638 for 2013-2014). Grants-in-aid: Tuition.

FACULTY:

- Bruce D'Arcus, Ph.D., Syracuse, 2001, Associate Professor and Chair — political and cultural geography, social theory, public space
- 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
- Carl Dahlman, Ph.D., Kentucky, 2001, Associate Professor Political Geography, population, social theory, Europe, Middle East
- Marcia England, Ph.D., Kentucky, 2006, Associate Professor Access to public space, media and popular culture, geographies of the body

- Jerry E. Green, Ph.D., North Carolina, 1976, Associate Professor physical, land use analysis, soils, map interpretation, air photo interpretation, & Historical North America
- 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, Assistant Professor, Middletown campus — land change science, GIS, remote sensing
- John K. Maingi, Ph.D., Arizona, 1998, Associate Professor remote sensing, GIS, and forest ecology
- 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 and Women's, Gender, and Sexuality Studies Program — Indigenous peoples geographies, human rights, public policy, environment, and feminist theory
- David L. Prytherch, Ph.D., Arizona, 2003, Associate Professor urban, political, and cultural geography; urban planning & sustainability; Europe and North America
- James M. Rubenstein, Ph.D., Johns Hopkins, 1975, Professor planning, automotive industry, urban policy analysis, economic
- Damon Scott, Ph.D., University of Texas at Austin, 2008, Lecturer, Geography and American Studies — Urban historical geography, gender and sexuality, urban renewal, cultural landscape change
- Yelizaveta Skryzhevska, Ph.D., Idaho, 2007, Associate Professor, Hamilton campus — 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, 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

AFFILIATED FACULTY AND STAFF:

Robbyn Abbitt, 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
- 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
- Richard V. Smith, Ph.D., Northwestern, 1957, Professor Emeritus
- Joseph T. Urell, Ph.D., University of Cincinnati, 1972, Professor Emeritus
- Gene E. Willeke, Ph.D., Stanford, 1969, 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, M.S., Ph.D. in Atmospheric Sciences **DEGREES GRANTED AU13-SU14: M.A. in Geography -**4 males, 5 females, Ph.D. in Geography - 12 males, 13 females, M.S. in Atmospheric Sciences - 8 males, 2 females, Ph.D. in Atmospheric Sciences - 2 males, 1 female. **UNDERGRADUATE MAJORS: 341 CHAIR GEOGRAPHY: Daniel Sui GRADUATE STUDIES CHAIR: Harvey J. Miller DIRECTOR ATMOSPHERIC SCIENCES: Jay S.** Hobgood **DEPARTMENT FISCAL/HR OFFICER: Suzanne Mikos GRADUATE PRORAM COORDINATOR: Caitlin Naber**

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Professor Harvey J. Miller (Graduate Studies Chair, 614-292-5207, email: miller.81@osu.edu); Professor Mathew Coleman Studies 614-292-9689, (Undergraduate Chair, email: coleman.373@osu.edu); Professor Jay Hobgood (Director, Atmospheric Program, 614-292-3999, Sciences e-mail: hobgood.1@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; Departmental Website: www.geography.osu.edu; Department Facebook Page: www.facebook.com/OSUGeography; Twitter: Department @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 Morton O'Kelly, 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, 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 work on all atmospheric 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 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. 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 social and environmental science approaches to focus on human-environment interaction. Faculty investigate 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; environment-development issues in India and Latin America; identifying household-level determinants of resource use; and developing models to maximize forest and timber management. Ongoing work in North American contexts includes research on spatial epidemiology, the political ecology of the urban lawn, urban water quality, and governance issues in North Pacific fisheries.

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 studies 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 office is 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. Nov. 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 Science; BS Geographic Information Science; and BA Air Transportation Studies. 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 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). Applicants requesting research and teaching funding are encouraged to complete admission procedures by January 15th. Further details on degree requirements, admissions procedures, and financial aid are available on request.

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, Associate Professor — geo-visualization, semantics, uncertainty, spatial analysis, social media, map games
- David Bromwich, Ph.D., Wisconsin, 1979, 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)
- Nancy Ettlinger, Ph.D., Oklahoma, 1984, Professor critical theory, culture and economy, urban-social, governance
- Jay Hobgood, Ph.D., Ohio State, 1984, Associate Professor and Director, Atmospheric Sciences Program — 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
- Kenneth Madsen, Ph.D., Arizona State, 2005, Assistant Professor (OSU, Newark Campus, Ohio)
- Edward J. Malecki, Ph.D., Ohio State, 1975, Professor urban, rural and regional development, economic, technological change
- Becky K. Mansfield, Ph.D., Oregon, 2001, Professor nature-society relations; neoliberalism, scale, and the state; health and environment
- Bryan Mark, Ph.D., Syracuse, 2001, Associate 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 — 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
- 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 Director, Center for Urban & Regional Analysis (CURA) — locational analysis, quantitative analysis, transportation
- Elizabeth 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.
- Joel Wainwright, Ph.D., Minnesota, 2003, Associate 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, Associate Professor GIScience, spatial analysis, geovisualization and cartography, spatial decision support systems

EMERITUS FACULTY:

- William V. Ackerman, Professor Emeritus
- A. John Arnfield, Professor Emeritus
- Emilio Casetti, Professor Emeritus
- Victor Colombini, Associate Professor Emeritus
- Kevin R. Cox, Professor Emeritus
- Howard L. Gauthier, Professor Emeritus
- Robert D. Klingensmith, 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 7/1/13-6/30/14: 41 Bachelors, 12 Masters STUDENTS IN RESIDENCE (Fall, 2013): 160 Majors, 14 Masters CHAIR: James M. Dyer

ADMINISTRATIVE COORDINATOR: Patti Malloy

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Undergraduate Committee; or Chair, Graduate Committee, Department of Geography, Ohio University, 122 Clippinger Labs, Athens, Ohio 45701-2979. Telephone: (740) 593-1140. Fax: (740) 593-1139. E-mail: dyer@ohio.edu. Internet: www.ohio.edu/geography

PROGRAMS AND RESEARCH FACILITIES: Ohio University offers undergraduate students either a B.A. or a B.S. degree. In addition to the Geography major, undergraduate students may choose to follow one of several structured programs for a more specialized degree. These include Environmental Geography, Meteorology, Geographic Information Science (GIS), Environmental Pre-Law, Urban Planning and Sustainability, and Globalization & Development. The department also offers both undergraduate and graduate certificates in Geographic Information Science. Admission requirements are listed on the Ohio University web page (www.ohio.edu); information about programs of study can be found on the department's web page.

The department grants the M.A. and M.S. degrees with a thesis and a non-thesis option. Faculty strengths include physical (biogeography, geomorphology, climatology, meteorology), sustainable planning and resource management, urban, development studies, globalization, feminist/gender geography, agriculture/land use, cultural-historical, population, and applied information technology (cartography, remote sensing, GIS). 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 College accessed from the Graduate web site at www.ohio.edu/graduate/.

Departmental facilities supporting undergraduate and graduate research include a Geographic Technologies Laboratory supporting advanced information technologies, instruction in GISc and automated mapping. A remote sensing facility supports teaching and research in digital image processing. The Scalia Laboratory for Atmospheric Analysis supports teaching and research in climatology, meteorology, and forecasting. Other laboratory facilities include Carl Ross Geomorphology Research Laboratory. Through Ohio University's Alden Library, students have access to over two million volumes, a large map collection, and an extensive number of journals in geography and allied fields.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Academic Plan: semesters. Admission Requirements for Graduate Study: Baccalaureate degree in geography or a related field and a grade point average of 3.0 (4.0 scale), Graduate Record Examination scores, letters of recommendation and personal statement of interest. Financial Aid: Graduate Assistantships are available on the basis of individual merit. These provide full remission of tuition and a stipend of approximately \$12,600 for the nine-month academic year. Research assistant positions are available through faculty research grants. One graduate appointment is an associate in weather observations and forecasting. Assistantships typically are granted for a second year upon successful completion of the first year of study. Tuition scholarships are extended for the summer for students wishing to continue study during that period. The financial assistance application deadline is 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 and Chair biogeography, landscape ecology, forest dynamics
- Ryan Fogt, PhD., 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., University of 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 University, 1998, Associate Professor — cultural/political ecology agriculture, population, migration, Latin America
- Yeong-Hyun Kim, Ph.D., Syracuse University, 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., University of Pennsylvania, 2013, Assistant Professor — land use and environmental planning, green infrastructure, sustainable community strategies and indicators
- 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 physical geography, geomorphology, Quaternary studies, paleolakes, arid lands, history of geomorphology
- Gaurav Sinha, PhD., University at Buffalo-SUNY, 2007, Associate Professor — geospatial ontology, environmental data modeling, landscape analysis, PPGIS,
- Thomas A. Smucker, Ph.D., Michigan State, 2003, Assistant Professor — environment and development, land tenure systems, rural livelihood and coping strategies, African drylands
- Elizabeth Edna Wangui, Ph.D., Michigan State, 2004, Associate Professor — gender, rural livelihoods and landscape change in East Africa
- Risa Whitson, PhD., Pennsylvania State, 2004, Associate Professor of Geography and Women's and Gender Studies — gender and development, social geographies, informal sector, Argentina

AFFILIATED FACULTY:

- Ana Mojica Myers, M.A., Ohio University, 2009, Visiting Instructor — cartography
- R. J. Shostak, J.D., University of Pittsburgh School of Law, 1996, Visiting Assistant Professor — environmental law

OHIO WESLEYAN UNIVERSITY

DEPARTMENT OF GEOLOGY AND GEOGRAPHY DATE FOUNDED: 1951

DEGREES OFFERED: B.A., Geography; Geology; Environmental Studies; Urban Studies

GRANTED 9/1/10-8/30/15: 30 Geography; 20 Geology; 45 Environmental Studies

MAJORS: 10 Geography: 10 Geology; 30 Environmental Studies; 2 Urban Studies

CHAIR: Barton Martin

DEPARTMENT ADMINISTRATIVE ASST: Barbara Williams

FOR CATALOG AND FURTHER INFORMATION CONTACT: Dr. John Krygier, Professor of Geography, Ohio Wesleyan University, Delaware, Ohio 43015. Telephone (740) 368-3622. Fax (740) 368-3999. E-mail: jbkrygier@owu.edu. Internet: geo.owu.edu

PROGRAMS AND RESEARCH FACILITIES: Ohio Wesleyan University was founded in 1842 and geology and geography 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 1700 students equally divided between men and women from all over the United States and 50 foreign countries. The geography program focuses on the complex interrelationships 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 and remote sensing; climate, weather, and climate change; urban geography and urban studies; environmental geography; and environmental studies. The interdisciplinary Environmental Studies and Urban Studies programs are directed through the Geography program. The Beeghly Library contains approximately 700,000 volumes and over 1000 periodicals. Additional journal and bibliographic resources are available on line through 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 on-going 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

- Nicholas Crane, Ph.D., Ohio State, 2014, Visiting Assistant Professor of Geography — cultural geography, economic geography, political geography, urban geography, the Americas
- Karen H. Fryer., Ph.D., Illinois, 1986, Professor of Geology 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

SINCLAIR COMMUNITY COLLEGE

DEPARTMENT OF SOCIOLOGY, GEOGRAPHY, AND SOCIAL WORK

DATE FOUNDED: circa 1971

DEGREES AND CERTIFICATES OFFERED: GIS certificate, Associate Degree in Geography, Applied Associate Degree in Geospatial technology commencing in Spring 2016, Liberal Arts Degree with concentration in Geography

GRANTED 9/2013-to 12/2014: 5 GIS Certificates

- 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 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, and advanced spatial analysis. The Geospatial and Social Research Center includes a classroom with 20 computers and a separate lab with 10 computers. Students and faculty in GIS have opportunities to connect with local industry and government through 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, Associate Professor of Geography and GIS — GIS, urban geography, race and ethnicity Mohsen Khani, MA, University of Western Michigan, 1992, Professor of Geography — political and physical geography

ADJUNCT FACULTY: Ginger Einhorn, GISP Tom Harner, GIS Coordinator at Miami Valley Regional Planning Commission Lance Lemonges, PhD, University of Florida Nicollette Staton, MA

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 2013-2014: 7 Bachelors, 5 Masters STUDENTS IN RESIDENCE: 22 Majors, 14 Masters, 14 Ph.D. NOT IN RESIDENCE: 3 Masters CHAIR: Patrick L. Lawrence ASSISTANT TO THE DEPARTMENT CHAIR: Tammy Golkiewicz

FOR FURTHER INFORMATION WRITE TO: Dr. Patrick Lawrence, 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). Email: Patrick.Lawrence@utoledo.edu Internet: www.utoledo.edu/llss/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 sculpture 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, Economic Geography, Community and Urban Planning, Environmental Geography/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. **MA Program:** The program is on the semester system. All students must complete a minimum of 36 hours of approved study including a six-semester hour thesis. There is a comprehensive examination for admittance to candidacy. Also required is either appropriate supervised teaching assistant experience or a planning internship. 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) and 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.

PhD Program: Spatially Integrated Social Science—A program designed around the application of geographic information 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.

FACULTY:

- Bhuiyan M. Alam, Ph.D., 2005, Florida State University, Associate Professor — Urban and Regional Planning
- Kevin P. Czajkowski, Ph.D., 1995, University of Michigan, Professor — Climatology, Remote Sensing, Hydrology
- Daniel J. Hammel, Ph.D., 1994, University of Minnesota, Professor — Urban and Regional Planning, Human Geography
- Patrick L. Lawrence, Ph.D., 1996, University of Waterloo, Professor and Chair — 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, 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, Professor Industrial Geography, Economic Geography, Economic Development
- Sujata Shetty, Ph.D., 2002, University of Michigan, Associate Professor — Urban Planning,
- M. Beth Schlemper, Ph.D., 2000, University of Wisconsin-Madison, Associate Professor — Cultural and Historical, Human Geography

EMERITI FACULTY:

- Eugene N. Franckowiak, Ph.D., Michigan, 1973, Professor Emeritus and Research Professor — Cartography, Latin America especially Andean America, environmental perception
- Frank E. Horton, Ph.D., Northwestern, 1966, President Emeritus, Professor Emeritus — Transportation, urban geography
- Peter S. Lindquist, Ph.D., 1988, University of Wisconsin-Milwaukee, Associate Professor Emeritus — GIS, Digital Cartography, Location Theory, Transportation
- Donald W. Lewis, Ph.D., Ohio State, 1966, Professor Emeritus Neighborhood revitalization, environmental planning and resource management, Anglo-America
- William A. Muraco, Ph.D., Ohio State, 1971, Research Professor and Professor Emeritus — Economic (especially location theory), urban, quantitative research methods

OKLAHOMA

EAST CENTRAL UNIVERSITY

DEPARTMENT OF CARTOGRAPHY AND GEOGRAPHY DATE FOUNDED: 1936 DEGREES OFFERED: B.S. in Cartography (concentrations: Geotechniques; Geography) DEGREES GRANTED 2013-2014: 8 Bachelors MAJORS IN RESIDENCE (Fall 2013): 42 CHAIR: Gregory Plumb

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Mark Micozzi, Recruiting Coordinator, Department of Cartography and Geography, East Central University, Ada, Oklahoma 74820. Telephone (580) 559-5398. Fax (580) 559-5606. E-mail: mmicozzi@ecok.edu. Internet: www.ecok.edu/cartogeo

PROGRAM AND RESEARCH FACILITIES: The Department offers a curriculum leading to a B.S. in Cartography with concentrations in Geotechniques and Geography. Non-majors may minor in either Cartography or Geography. The Geotechniques concentration focuses upon the analytical, theoretical, and technical skills necessary for employment as a cartographer, GIS analyst, and related professions. The Geography concentration follows a more traditional curriculum in the discipline, training the student to think spatially thus offering a set of unique skill sets to a variety of vocations. Selection of a minor complements the major. Both degrees prepare outstanding students for graduate school. As a state-funded regional university, our students have the opportunities of a modestsize campus, while our small department offers highly individualized instruction. Prior to graduation, each student also has the opportunity for a paid internship and is encouraged to participate in a professional meeting.

Department facilities include a Conference Room & Study, Oklahoma Geography Room, Earth Science lab, and Spatial Graphics & Analysis lab. The latter consists of nineteen dual monitor workstations and LCD projector for classroom presentations. Applications pertinent to the discipline include the latest versions of ArcGIS, ArcGIS extensions, ENVI, and animation software. In addition, students have access to SPSS, Excel, Word, Powerpoint and other computer applications. There is also a Remote Sensing & Geotechniques lab, housing two 3-D photogrammetric workstations, a MakerBot 3-D printer, a large format plotter and digitizing tablet, and two Trimble GeoXH GPS units. The department is home to both the *Oklahoma Atlas Institute*, whose primary mission is to maintain and promote the *Web Atlas of Oklahoma (www.okatlas.org)*; and the institution's *NASA Scholar Program*.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system, with one eight week and two four week summer sessions and one week intersessions. Admission requirements for ECU can be obtained by visiting the following web page: www.ecok.edu/future-students-getting-started. Financial aid and student employment positions are readily available. Several scholarships are available for cartography majors on a competitive basis. The Gil Morgan Family Cartography Fund provides students with travel scholarships to help defray expenses to participate in field experiences and attend professional meetings. Undergraduate students from outside of Oklahoma may also be eligible for an out-ofstate tuition waiver.

FACULTY:

- William Lyon, Ph.D., Michigan, 1973, Visiting Adjunct Professor Earth science, geochemistry, groundwater, energy resources
- Mark Micozzi, Ph.D., Oklahoma, 2001, Professor Biogeography, remote sensing, vegetation dynamics, field methods, geographic education, Lewis and Clark
- Gregory A. Plumb, Ph.D., Kansas, 1988, Professor & Chair Spatial analysis, thematic mapping, GIS, field studies, waterfalls, national parks, geographic education

OKLAHOMA STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1940 GRADUATE PROGRAM FOUNDED: 1947 DEGREES OFFERED: B.A., B.S., M.S., Ph.D. (Geography), M.S., Ph.D. (Environmental Science)

GRANTED AY 2013-2014: 10 Bachelors, 4 Masters, 2 Ph.D.

STUDENTS IN RESIDENCE: 36 Majors, 16 Masters, 22 Ph.D.

HEAD: Dale R. Lightfoot

DEPARTMENT ADMINISTRATIVE ASST: Ann Adkins

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Emily Williams, Graduate Secretary, 337 Murray Hall, Oklahoma State University, Stillwater, Oklahoma 74078-4073. Telephone (405) 744-6250. Fax (405) 744-5620. Email: emily.c.williams@okstate.edu. Internet: www.geog.okstate.edu.

PROGRAMS AND RESEARCH FACILITIES: Programs of study lead to bachelors, masters and doctoral degrees in Geography. The Department also sponsors students in the university's interdisciplinary Environmental Science M.S. and Ph.D. program. Students can earn a Certificate in Geographic Information Systems concurrently with their graduate or undergraduate degree in geography. Coursework is oriented toward problem solving skills and techniques and considerable leeway is granted the student with respect to the selection of course offerings within and outside the Department. Students may generalize, or develop plans of study to accommodate specialties in one of the Department's three areas of emphasis: (1) Resource Management: Faculty interests focus on agriculture, transportation, atmospheric/surface modeling, outdoor recreation management, soils, water, and the economics and policy of resource allocation and use. The application of GIS methodologies in addressing resource management problems is especially encouraged. (2) Cultural and Historical Geography: The Department has a longstanding tradition of research in cultural geography. Areas of faculty expertise include the geography of sport, language, traditional technology, and Native Americans. Faculty are also involved in research projects related to historic preservation, urban history, geoarchaeology, and cultural and political ecology. (3) Urban and Transportation Geography: The Department has long supported studies in the cultural and economic impact of urban places and the development and structure of urban places in the Great Plains and American South. Faculty interests in transportation focus on the economic impacts of transportation infrastructure and the development of transport/logistics databases and end-user transport applications of GIS.

Research and travel experience give faculty strength in several geographic regions, especially Central Asia, Australia, Latin America, and the Middle East. Two international journals are edited by Department faculty: the *Journal of Cultural Geography* and the *Journal of Central Asian Studies*. In addition to academic careers, the Department's applied orientation prepares students for careers in

government, business, and industry. Internship opportunities are available in both the private and public sectors.

Located in a newly remodeled 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. Two campus centers are managed by the Department: the OSU Cartography Service, a full-service production cartography facility, and the Center for Applications of Remote Sensing which includes UAV/UAS equipment and expertise for remote sensing instruction 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 Oklahoma Mesonetwork the in а near-real-time GIS environment. The Department's computer facilities are equipped with 24 instructional computers, a large format color scanner, 11x17 color printer, and two large format color printers capable of E-size printing. These labs are available for digital cartography (Adobe Illustrator, Corel Draw), the Global Positioning System (Trimble's Pathfinder Office), geographic information systems (ESRI's ArcGIS -ArcInfo), and remote sensing (ERDAS, ENVI, IDRISI, and AgiSoft 3-D modeling).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Students may earn a B.A. or B.S. degree in geography. Forty-five semester hours of coursework are required for a major in geography. Students must earn a 2.5 GPA (4.0 basis) in the 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. Students can also elect to earn a certificate in Geographic Information Systems (GIS) or a minor in geography.

Graduate: The Department offers the M.S. and Ph.D. degrees in geography. We maintain specialties in resource management, cultural and historical geography, and urban and transportation geography. Specific plans of study are tailored to individual student interests within these specialties. The M.S. degree usually requires two academic years (four semesters) and admission is predicated on submission of academic transcripts, GRE scores, and letters of reference from persons familiar with the student's academic performance and potential. 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. In addition to the M.S. requirements, the Ph.D. degree requires a minimum of 60 credit hours. Admission requirements include a completed M.S. degree or equivalent and demonstration of research potential through the completion of a M.S. thesis or equivalent. The Departmental Graduate Committee accepts admissions applications throughout the year and will render decisions on admission and/or funding as soon as practical.

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 can be obtained by writing to the department.

Financial Aid: Masters teaching and research assistantships carry monthly stipends of \$1,203.00 and Doctoral Teaching Associate and research positions carry a monthly stipend of \$1,553.00. All assistantships include a waiver of out-of-state tuition, plus all tuition

waived 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.

FACULTY:

- Brad A. Bays, Ph.D., Nebraska, 1996, Associate Professor historic preservation, historical GIS, Native Americans, agricultural history, Great Plains, Oklahoma
- 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
- Emily Fekete, Ph.D., Kansas, 2015, Clinical Assistant Professor economic geography, consumption, social media, internet
- 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
- 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
- Hung-Ling (Stella) Liu, Ph.D., Oklahoma State, 2012, Research Assistant Professor — recreation management, leisure behavior, tourism in recreation settings
- 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
- I-Chun (Nicky) Wu, Ph.D., Michigan State, 2014, Research Assistant Professor — recreation, tourism, sustainability, GIS
- 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
- Matthew Tueth, Ph.D., Oklahoma State, 2000, Adjunct Assistant Professor — natural resources, state and national parks recreation management

OREGON

CHEMEKETA COMMUNITY COLLEGE

SOCIAL SCIENCE PROGRAM DATE FOUNDED: 1970 DEGREES OFFERED: A.A. Geography GRANTED: N/A MAJORS: N/A SOCIAL SCIENCE PROGRAM DEAN: R. Taylor 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. Telephone (503) 399-5048 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, Natural Hazards, Middle East, U.S. & Canada, World Regional

ADJUNCT FACULTY:

Megan Cogswell, M.S., Oregon State University — Cultural, Economic

Lori Cole, M.A., California State University-Chico - Cultural

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: Earth Science (Geography

Option) B.S.; Geography M.A., M.S., Ph.D.

DIRECTOR OF GEOGRAPHY: Julia A. Jones

DEPARTMENT ADMINISTRATIVE ASST: Stacey Schulte

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: stacey.schulte@oregonstate.edu Internet: http://ceoas.oregonstate.edu.edu/academics

PROGRAMS AND RESEARCH FACILITIES: Undergraduate students can obtain an option in Geography as part of the Earth Sciences major. The option includes coursework in physical geography; geography of resources, planning and hazards; GIScience;

and regional geography/globalization, as well as field experiences and training in basic geographic techniques. 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 GIS, cartography, remote sensing, geovisualization, geospatial intelligence, spatial statistics and modeling, and web mapping. Students may select geographic information science as a graduate area of concentration as part of the MA, MS, or PhD in Geography. Graduate students also can obtain a GIS 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 select physical geography or resource geography as a graduate area of concentration as part of the MA, MS, or PhD in Geography. Graduate students also can obtain an online certificate in water conflict. Faculty engaged in research, instruction, and advising in this area include

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 select physical geography or resource geography as a graduate area of concentration as part of the MA, MS, or PhD in Geography.

Program facilities include an instructional computer lab, GIS capable computer classrooms, enhanced digital projection classrooms, and remote sensing, GIS geovisualization and geospatial intelligence 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 GIS, 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 non-thesis option.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Undergraduate:

Admission requirements: 3.00 high school GPA or University approved alternatives. Transfers must have GPA of 2.25 (2.50 for nonresidents). Quarter system. *Financial aid*: Scholarships, grants, loans and part-time employment (http://oregonstate.edu/admin/finaid).

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 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, Colorado, 2000, Associate Professor land use, biodiversity, conservation, water resources
- Demian Hommel, PhD, Oregon, 2009, Instructor cultural geography, natural hazards
- Shireen Hyrapiet, PhD, Oklahoma State, 2012, Instructor political ecology, disaster management, cultural geography
- Todd Jarvis, PhD, Oregon State University, 2006, Assistant Professor (Senior Research) — water resources conflict resolution, groundwater
- Bernhard Jenny, PhD, ETH Zurich, 2009, Assistant Professor cartographic design, geovisual analytics, geovisualization
- Helen Jenny, PhD, ETH Zurich, 2011, Institutional Postdoc geographic information science
- 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
- Anne Nolin, PhD, UC Santa Barbara, 1993, Professor remote sensing, snow and ice in the climate system
- Mary V. Santelmann, PhD, Minnesota, 1988, Associate Professor (Senior Research) — biogeography, biodiversity, ecology, plant physiology
- Jenna Tilt, PhD, University of Washington, 2007, Faculty Research Associate — urban ecology, rural and regional planning
- Aaron T. Wolf, PhD, Wisconsin, 1992, Professor water resources, policy and planning, Middle East geopolitics

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
- Heather Lintz, PhD, Oregon State University, 2010, Assistant Professor, Senior Research — statistical ecology, climate change, plant phenology
- 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, Courtesy 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 9/1/2013-8/31/2014: 31 Bachelors, 15 Masters, 27 GIS grad certificates
- STUDENTS IN RESIDENCE: 103 Majors, 29 Masters, 42 GIS grad certificate (37 Geography minors, 44 GIS minors)

CHAIR: Heejun Chang, Ph.D.

DEPARTMENT ADMINISTRATOR: Karin Waller, M.S.

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:

Environmental Geography and Natural Resource Management: The examination of environmental change and human influences on natural resources; conservation, cultural and political ecology, environmental ethics and resource management are also department interest areas.

Spatial Analysis, Data Representation, and Technology: 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 Geography: The natural environment of the earth as a set of interrelated systems. Geographic specialties include hydrology and water resources, climatology, 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, cultural and political ecology, 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, Europe, 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. A combined score of 297 on the verbal and quantitative portions of the GRE is required. 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:

- Sona Andrews, PhD, Arizona State University, 1981, Provost and Vice President for Academic Affairs, Professor of Geography
- 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 peoples and environments, pastoralism, highland Asia, American West, cultural ecology

- Teresa L. Bulman, Ph.D., University of California-Davis, 1990, Professor — research in geography education; teaching in climate and water resources
- Heejun Chang, Ph.D., Pennsylvania State University, 2001, Professor and Chair — hydrology and water resources, climate change impact assessment, hydrologic ecosystem services, stream restoration, visual spatial analysis, GIS applications in hydrology and water resources
- Britt Crow-Miller, Ph.D., University of California, Los Angeles, 2013, Assistant Professor — environmental politics, development, political ecology, water resources, China
- Jiunn-Der (Geoffrey) Duh, Ph.D., University of Michigan, 2004, Associate Professor — geographic information systems theory and application, remote sensing, land use and land cover change
- Andrés Holz, Ph.D., University of Colorado, Boulder, 2009, Assistant Professor — forest dynamics, disturbance ecology, climate-firehuman relationships
- 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
- Hunter Shobe, Ph.D., University of Oregon, 2005, Assistant 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) behavioral geography, geographic information science, humancomputer 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 — Research interests: 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:

- 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 Emeritus — Latin America, cultural geography, agriculture and food supply, rural sustainable development

PENNSYLVANIA

BUCKNELL UNIVERSITY

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1940 DEGREES OFFERED: B.A. GRANTED 9/1/13-8/31/14: 5 Bachelors MAJORS: 20 CHAIR: Adrian Mulligan DEPARTMENT ACADEMIC ASSISTANT: Kim DiRocco

FOR CATALOGAND FURTHERINFORMATIONWRITETO: AdrianMulligan,DepartmentofGeography, Bucknell University, Lewisburg, Pennsylvania17837.Telephone(570)577-1949.Fax(570)577-3536.E-mail: amulliga@bucknell.edu. Internet:www.bucknell.edu/Geography

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography emphasizes critical spatial thinking concerning humanenvironment relations, political economy of global restructuring, sustainable development, social and special justice, and political, cultural and social geography at a range of scales –focusing in particular on gender, race, and nationalism. Regional emphases include North America, Latin America, and Europe. The department's strengths are complemented by its association with the Department of International Relations, the Environmental Studies Program, and a number of study-abroad programs, for example Bucknell in Nicaragua and Bucknell in Northern Ireland, in addition to its location that offers diverse field research opportunities.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Two semesters. For information on admissions and financial aid, contact the Office of Admissions, Freas Hall, Bucknell University, Lewisburg, Pennsylvania 17837.

FULL AND PART-TIME FACULTY:

- Duane A. Griffin, Ph.D., Wisconsin-Madison, 1997, Associate Professor — biogeography, physical geography, geographic information systems
- Ben Marsh, Ph.D., Pennsylvania State, 1983, Professor geoarchaeology, human adaptation, mapping, spatial equity
- Vanessa Massaro, Ph.D., Pennsylvania State, 2014, Visiting Assistant Professor — feminist geography, critical race theory, alternative political economy, critical and reflexive research methodologies
- Karen M. Morin, Ph.D., Nebraska-Lincoln, 1996, Professor feminist geography, cultural, social and historical geography
- Adrian N. Mulligan, PhD. Arizona, 2001, Associate Professor and Chair — political, social and cultural geography, identity politics, historical geography, Europe and North America
- Paul Susman, Ph.D., Clark, 1979, Professor regional development, Third World development, Caribbean, Central America

CALIFORNIA UNIVERSITY OF PENNSYLVANIA

DEPARTMENT OF EARTH SCIENCES DATE FOUNDED: 1927 DEGREES OFFERED: B.A., B.S. GRANTED 2010-2011: 25 Bachelors CHAIR: Thomas D. Wickham, Ph.D. DEPARTMENT ACADEMIC PROGRAM COORDINATOR: Susan Ryan (Tourism), Thomas Mueller (GIS and Emergency Management), Thomas Wickham and John Confer (Parks and Recreation Management), Chad Kauffman and Swarndeep Gill (Meteorology)

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Thomas D. Wickham, Professor and Chair Department of Earth Sciences, 160 Eberly Science & Technology Center, 250 University Ave., California University of PA, California, Pennsylvania 15419. Telephone (724) 938-4180. Fax (724) 938-5780. Email: wickham@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.

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:

- 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 Buffalo, The State University of New York, 2008, Associate Professor — Hydrogeology and Analytic Element Groundwater Modeling
- Swarndeep S. Gill, Ph.D., University of Wyoming, 2002, Associate Professor — 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, Crime Mapping and Regional Planning
- Susan D. Ryan, Ph.D., University of Calgary, 2005, Associate Professor — Tourism Planning and Development, Qualitative Methods, Marketing Geography
- Thomas D. Wickham, Ph.D., Pennsylvania State University, 2000, Professor and Chair — Recreational Planning, Social Impacts of Recreation, and Geo-Spatial Technology

EDINBORO UNIVERSITY OF PENNSYLVANIA

DEPARTMENT OF GEOSCIENCES DATE FOUNDED: 1945 DEGREES OFFERED: B.A., B.S. GRANTED 9/1/13--8/31/14 MAJORS: 133 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. E-mail: 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
- Tadesse Kidane-Mariam, Ph.D., Iowa, 2001, Assistant Professor urban and regional planning, Africa, environment and habitat management
- Henry W. Lawrence, Ph.D., Oregon, 1985, Professor environmental geography, Latin America
- 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 and Chair — 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
- Dale Tshudy, Ph.D., Kent State, 1993, Professor invertebrate paleontology
- Brian S. Zimmerman, Ph.D., Washington State, 1991, Professor economic geology

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 9/1/14-8/31/15: 35 Bachelors, 10 Masters NUMBER OF STUDENTS: 140 Majors, 28 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 or regional planning with track specializations available in environmental, economic, GIS/cartography, land use planning, or general geography. Internships are encouraged. 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.

The department maintains two facilities that support instruction and research in geospatial techniques and planning analysis/design: the James Payne GIS/Cartography Laboratory, and the Spatial Environmental Analysis Laboratory (SEAL). The Payne Lab is designed to train students using Cartography, geographic information systems (GIS), remote sensing, and computer aided drafting (CAD) hardware and software, including ArcGIS 10 (University Site License), ERDAS Imagine, IDRISI. MapInfo and MiniCAD/Vectorworks applications. The SEAL Lab is a facility for teaching students advanced environmental data collection and analysis techniques. Hardware and software available in the SEAL lab include 28 workstations, a GPS base station, Trimble GeoXT, GeoXH and R-8 global positioning system (GPS) units, a Nikon Total Station survey instrument, EcoSeeker DataLogger water monitoring devices, portable atmospheric monitoring devices, and a HOBO 15 channel Weather Station with real-time reporting capabilities.

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
- Zhongwei Liu, Ph.D. Cincinnati, 2008, Assistant Professor geographic information systems, remote sensing, spatial analysis techniques
- 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, PhD., West Virginia, 2010, Assistant Professor — energy, environmental, remote sensing
- Gail S. Sechrist, Ph.D., Louisiana State, 1986, Professor culturalhistorical, U.S. and Canada, religion
- Robert P. Sechrist, Ph.D., Louisiana State, 1986, Professor cartography, spatial diffusion, GIS
- D. Whit Watts, Ph.D., Virginia Polytechnic, 1995, Assistant Professor — land use planning, design, theory, land use law
- Stacey Wicker, ABD, Kent State University, Instructor cultural geography, political geography

EMERITI FACULTY:

Robert B. Begg Joseph Bencloski Susan E. Forbes Thomas G. Gault Vincent P. Miller, Jr. Ruth I. Shirey Leonard P. Tepper Charles E. Weber

KUTZTOWN UNIVERSITY

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1961 DEGREES OFFERED: B.A., B.S. in Education, B.S. in Environmental Science/Geography GRANTED 7/01/10 - 5/09/15: 56 B.A. degrees, 3 B.S. degrees MAJORS: 67 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:

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers a Bachelor of Arts degree in five trucks: general, applied, environmental, globalization and planning as well as a Bachelor of Science degree in Environmental Science/Geography. In conjunction with the College of Education, the Department also offers a Bachelor of Science in Education degree in Secondary Education-Social Studies. 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, and business graphics software packages. Research opportunities include major urban areas, unique rural cultures, geographic information systems, and planning. An internship is required in the applied and environmental tracks, which offers students an 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.

FACULTY:

courtney@kutztown.edu.

- Mario L. Cardozo, Ph.D., University of Texas at Austin, 2013, Assistant Professor — physical, GIS, remote sensing
- Richard S. Courtney, Ph.D., Ohio State University, 1993, Associate Professor and Chair — physical, cartography, research methods, urban.
- Richard A. Crooker, PhD., California-Riverside, 1986, Professor — physical, oceanography, climatology, South America
- Michael A. Davis, Ph.D. Ohio State University, 2011, Assistant Professor — physical, meteorology, weather analysis
- Mathias Le Bossé, Ph.D. University of Wisconsin at Madison, 2000, Associate Professor — cultural, political, economic, world regional, Europe
- Steven M. Schnell, Ph.D., University of Kansas, 1998, Professor cultural, Africa, North America, globalization
- Robert C. Ziegenfus, Ph.D., Rutgers University, 1980, Professor cultural, environmental conservation, medical, planning, recipient of the 2005 Arthur and Isabel Wiesenberger Faculty Award for Excellence in Teaching

MILLERSVILLE UNIVERSITY

GEOGRAPHY DEPARTMENT DATE FOUNDED: 1956 DEGREES OFFERED: B.A., B.S. in Education GRANTED 9/1/13-8/31/14: 9 Bachelors MAJORS: 70 CHAIR: Jessica J. Kelly DEPARTMENT ADMINISTRATIVE ASST: Lori Read

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

PROGRAMS:

The Geography Department at Millersville University is located in an area of unique cultural and environmental opportunities and challenges.

The *liberal arts* geography program provides students with a choice of three concentrations leading to a Bachelor of Arts degree: GLOBAL GEOGRAPHY emphasizes international understanding. Regional emphases in the department include Latin America, Africa, and Europe, in addition to North America. ENVIRONMENTAL GEOGRAPHY emphasizes environmental analysis and planning. GEOSPATIAL APPLICATIONS emphasizes the acquisition of skills in cartography, map use and interpretation, geographic information systems, and basic quantitative skills. Most students include a co-op or internship experience in their program.

Students who are candidates for *Secondary Education Certification* select the Geography Option within the Social Studies major. This program leads to a Bachelor of Science in Education degree. The *Geography Minor* program is selected by students from a wide variety of majors. Four specific minors are available, in GLOBAL GEOGRAPHY, ENVIRONMENTAL GEOGRAPHY, and GEOSPATIAL APPLICATIONS.

FACILITIES AND RESOURCES:

The Geography Department is located in McComsey Hall which houses, in addition to faculty offices and classrooms, the department's Geo-Graphics Lab and two university-run microcomputer labs (one IBM and one Macintosh). The Geo-Graphics Lab houses a USGS depository collection of topographic maps, a varied collection of wall maps, and a well-stocked cartographic facility (suitable for computer mapping projects).

The department's computer equipment includes six PC's, a digitizer and a scanner in faculty offices. Seventeen PC's and a Unix workstation in the Geo-Graphics Lab are locally networked along with the following peripherals: two printers (one color inkjet for A/B-size maps and one B&W laserJet), three digitizers (two 36" x 48" and one 24" x 36"), and two plotters. The primary geographical software used are: ArcView, ArcGIS, and IDRISI.

The university-wide computing facilities include 11 public-access microcomputer labs around campus, as well as Micro VAX-3600, VAX 4000 Model 300, and IBM 4381 academic mainframe computers.

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 6/1/14-5/31/15: 38 Bachelors, 58 Masters, 8 Ph.D. STUDENTS IN RESIDENCE: 120 Majors, 14 Masters, 57 Ph.D., 3 Postdoctoral Scholars NOT IN RESIDENCE: 329 M.G.I.S HEAD: Cynthia Brewer DEPARTMENT ADMINISTRATIVE ASST: 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: geoggradsec@psu.edu. Internet: www.geog.psu.edu.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers a full range of baccalaureate and graduate degrees and diverse learning and research opportunities, on- and off-campus. The department offers concentrations and cross-cutting connections in all four major subfields: human geography, physical geography, environment and society geography, and GIScience-cartography. It hosts the Geographic Visualization Science, Technology, and Applications (GeoVISTA) Center. This interdisciplinary center is devoted to fundamental and applied scientific research in GIScience. Particular emphasis is given to geovisual analytics, cartography and geovisualization, representation (cognitive, visual, and database), knowledge management and geocollaboration, and human interaction with geospatial information. The department also hosts Riparia, which conducts, facilitates, and coordinates interdisciplinary research, monitoring, and training regarding wetlands and related resources, with an emphasis in the Mid-Atlantic and Northeastern states. Also hosted in the department are topical research laboratories and groups concentrated in vegetation dynamics; global environment change; landscape ecology; human-environment interactions; landscapes and livelihoods; development and institutions; and urban, regional and economic geography, public policy, and social justice. Ongoing research projects and learning opportunities in the department involve a community of twenty-six tenure-line faculty, forty fixed-term research track research faculty, graduate students, undergraduate students, post-doctoral researchers and fellows, and visiting scholars. The Department of Geography benefits from close ties to the Earth

and Environmental Systems Institute. Global climate change, integrated regional assessment, and human/environment interactions are major foci of the institute's research. Close relationships exist between the department and various campus-based area studies programs and research institutes including the Penn State Institutes of Energy and the Environment, the School of International Affairs, the Alliance for Education, Science, Engineering, and Development in Africa (AESEDA), The Department of Women's Studies, the Human Dimensions of Natural Resources and the Environment program, Global Programs, Social Science Research Institute, and Population Research Institute. Internationally, the department is a founding member of the World Universities Network and is a sponsor of WUNrelated graduate seminars on a diverse range of topics. The department occupies excellent facilities on a beautiful campus and provides office 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, development, and instructional missions. All computing is networked to provide printing, maintenance, and backup. The department employs an information technology specialist, and equipment and software are regularly replaced or upgraded to ensure that they are upto-date. A full range of GIS, remote sensing, and spatial analysis software is available to students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: The University follows the fifteen-week semester system with 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 campuses outside University Park. 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 general geography (B.A. or B.S.) or in B.S. options in Geographic Information Science, Physical/Environmental Geography, and Human Geography. B.A. options also include Human Geography and Nature/Society Geography. The program offers minors in Geography and Geographic Information Systems, and the geography faculty supervise interdisciplinary minors in Climatology, Environmental Inquiry, Information Science and Technology for Earth and Mineral Sciences, and Watersheds/Water Resources. The department also participates in dual majors; simultaneous degrees; 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/undergrad or by contacting Jodi Vender at jvender@psu.edu.

Professional: The department offers online certificate and master's degree programs in Geographic Information Systems (GIS) 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 an eleven-credit post-baccalaureate program that helps students become more skillful and knowledgeable GIS users. The

postbaccalaureate certificate program in Geospatial Intelligence (GEOINT) is a fourteen-credit program for current and aspiring analysts whose responsibilities include planning for emergencies, coordinating responses to natural and human-induced disasters, and planning and conducting military operations. The Master of GIS (MGIS) degree is a thirty-five-credit program for those who aspire to leadership in the GIS profession. Both the CPGIS and MGIS programs follow a quarter system of four ten-week terms per year. All courses are instructor-led and are offered through the University's web-based course management system. Students are expected to complete weekly assignments but are not required to log in at any particular time or place. See the department's online geospatial education program gateway at : http://www.worldcampus.psu.edu/gep

Graduate: The department has minimal course requirements; all graduate programs of study are individually designed to suit personal needs and professional aims. Program styles 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 also strongly encouraged. The department participates in interdisciplinary graduate programs in women's studies, human dimensions of natural resources and the environment, ecology, and operations research. Applicants must submit GRE scores and have a junior-senior GPA over 3.0 (A=4.0). Teaching and research assistantships carry a competitive two-semester stipend plus all tuition and fees. Fellowships, both departmental and university, 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. Detailed information about the graduate programs is available at www.geog.psu.edu/graduate-program-information/future-graduatestudents.

FACULTY:

- Clio M. Andris, Ph.D., Urban Information Systems, MIT, 2011, Assistant Professor — Social Networks, Urban Planning, Spatial Analysis & GIS, Interpersonal Relationships, Institutions, Telecommunications, Human Movement
- 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
- Robert P. Brooks, Ph.D., Massachusetts, 1980, Professor of Geography, Ecology, and Earth and Environmental Systems Institute; Director of Penn State Riparia — ecology, conservation, and restoration of wetlands, streams, and riparian areas, wetland wildlife, landscape ecology
- Andrew M. Carleton, Ph.D., Colorado, 1982, Professor of Geography and Earth and Environmental Systems Institute — satellite climatology, synoptic climatology, climate dynamics, human impacts on climate, Antarctica
- Guido Cervone, Ph.D., George Mason University 2005, Associate Professor of Geoinformatics — remote sensing, environmental hazards, geoinformatics, social media, planning and economic development policies, spatial statistics, complex economic systems
- Robert G. Crane, Ph.D., Colorado, 1981, Professor; Director, Alliance for Education, Science, Engineering, and Development in Africa — climatology, regional scale climate change, African climates
- Lorraine Dowler, Ph.D., Syracuse, 1997, Associate Professor of Geography and Women's Studies — social theory, cultural geography, gender, qualitative methods
- Roger M. Downs, Ph.D., Bristol, 1970, Professor behavioral, environmental cognition, geography education
- William E. Easterling, Ph.D., North Carolina, 1984, Professor; Dean, College of Earth and Mineral Sciences — environmental change, agricultural systems, climate, renewable natural resources, land use

- Christopher Fowler, Ph.D., University of Washington, 2007, Assistant Professor — urban and economic geography, demographics, poverty,
- Deryck W. Holdsworth, Ph.D., British Columbia, 1981, Professor urban historical geography, historical geography of North America, historical GIS
- Brian King, Ph.D., University of Colorado-Boulder, 2004, Associate Professor — cultural ecology, development, GIS, S. Africa, Africa
- Alexander Klippel, Ph.D., Bremen, 2003, Associate Professor and Associate Head of Department and Graduate Program Officer — geographical information science, spatial languages, geographic event conceptualization, behavioral research methods
- Ikubolajeh Logan, Ph.D., UCLA, 1983; Professor of Geography, African Studies Program, and Earth and Environmental Systems Institute; Program Director of African Studies Program — Africa and third world development, human dimension of environmental and resource analyses, globalization
- Alan M. MacEachren, Ph.D., Kansas, 1979, Professor; Director of GeoVISTA Center — geographic information science: visual analytics, geovisualization, cartography, geocollaboration, spatial cognition, human-centered systems
- Donna J. Peuquet, Ph.D., SUNY Buffalo, 1977, Professor; Associate Director of GeoVISTA Center and Undergraduate Program Officer — geographic information science, space-time representation, environmental cognition, spatial data models
- Anthony Robinson, Ph.D., Penn State, 2008, Assistant Professor, Director of Online Geospatial Education Programs geographic visualization, cartography, visual analytics
- Erica A. H. Smithwick, Ph.D., Oregon State, 2002, Associate Professor of Geography, Ecology, and Earth and Environmental Systems Institute — landscape ecology, ecosystem ecology, biogeochemistry, fire ecology
- Alan H. Taylor, Ph.D., Colorado, 1987, Professor of Geography and Ecology — 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 Studies — social theory, feminist theory, political economy, Mexico-U.S. border, qualitative methods
- Lakshman Yapa, Ph.D., Syracuse, 1969, Professor Postmodern discourse theory, Third World, theories of poverty, community development, GIS applications, public scholarship and service learning
- Brent Yarnal, Ph.D., Simon Fraser, 1982, Professor coupled human-environment systems, global change in local places, climate variation and change, land-use/land-cover change, environmental hazards
- 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, Professor Emeritus history of geography, geography of communications systems.
- Rodney A. Erickson, Ph.D. University of Washington, 1973, Professor Emeritus — human geography. Peirce F. Lewis, Ph.D., Michigan, 1958, Professor Emeritus — American landscapes.

ADJUNCT FACULTY:

- Susan W. Friedman, Ph.D., Toronto, 1988, Adjunct Assistant Professor — history of geography, social and historical geography
- Linda Pickle, Ph.D., Johns Hopkins, 1977, Adjunct Professor geovisualization, spatial statistical analysis, cancer epidemiology

AFFILIATED FACULTY (Including On-line Faculty):

- Todd Bacastow, Ph.D., Penn State, 1992, Lead faculty, Graduate Certificate in Geospatial Intelligence and Professional Master of Homeland Security Geospatial Intelligence Option, Dutton e-Education Institute — GIS, geospatial intelligence, geospatial analytic methods
- Joseph Bishop, Ph.D., Penn State, 2008, Research Associate GIS, wetland environmental systems, conservation geography
- Justine Blanford, Ph.D., Imperial College, Research Associate GIS, spatial analysis, spatial and temporal ecology of disease
- Mark W. Corson, Ph.D., South Carolina, 1997, Visiting Associate Professor, Dutton e-Education Institute — political and military geography, geospatial intelligence, Western Europe and Southwest Asia
- James Detwiler, M.S., University of Delaware, 1999, Senior Instructor, Dutton e-Education Institute — GIS programming and customization, climatology, distance education
- Peter Guth, Ph.D., Massachusetts Institute of Technology, 1980, Visiting Professor, Dutton e-Education Institute — geology, oceanography, computer-assisted terrain analysis
- Franklin Hardisty, Ph.D., Penn State, 2003, Research Associate, Geography and Dutton e-Education Institute — geographic visualization, spatial analysis, health geographics
- Patrick Kennelly, Ph.D., Oregon State, 1997, Visiting Associate Professor, Dutton e-Education Institute — geographic information science (GIS), GIS project management, cartography
- John A. Kelmelis Ph.D., Penn State, 1991, Professor of Geography and International Affairs, School of International Affairs science, policy, and international affairs; natural resources, sustainable development, environmental change, information infrastructure
- Fritz Kessler, Ph.D., University of Kansas, 1999, Visiting Associate Professor, Dutton e-Education Institute — projections, datums, coordinate systems, cartography
- Elizabeth King, M.Ed., Penn State, 2003, Senior Lecturer, Dutton e-Education Institute — geographic information systems, adult education, problem-based learning
- Stephen A. Matthews, Ph.D., Wales, 1990, Associate Professor of Sociology, Anthropology, Geography and Demography, and Director of the Geographic Information Analysis Core at the Population Research Institute — demography, health and wellbeing, geographic information systems, multi-method research
- Douglas A. Miller, Ph.D., Penn State, 1999, Director, Center for Environmental Informatics, Earth and Environmental Systems Institute; Senior Research Associate in EESI; Associate Professor of Geography — remote sensing, geographic information science, landscape ecology, soils, geomorphology
- David O'Sullivan, Ph.D., University College London, Visiting Instructor, Dutton e-Education Institute — spatial analysis, simulation models, urban social geography, complexity science and geography
- Gian Rocco, Ph.D., Penn State, 2007, Senior Research Associate applied herpetology, human-environment relationships
- Karen Schuckman, M. GIS., Penn State, Senior Lecturer, Dutton e-Education Institute — remote sensing, geospatial technology, photogrammetry
- Jan Van Sickle, Ph.D., University of Colorado, Visiting Senior Lecturer, Dutton e-Education Institute — remote sensing, GNSS, digital elevation models, 3D and 4D Modeling
- Denice Wardrop, Ph.D., Penn State, 1997, Senior Scientist; Associate Director of Riparia; Associate Professor of Geography and Ecology; Associate Director of Penn State Institutes of Energy and the Environment — landscape ecology, wetland plant communities, effects of human disturbance on wetland ecosystems, wetland condition assessment
- Jim Wright, Ph.D., University of Edinburgh, Visiting Lecturer, Dutton e-Education Institute — health applications of GIS, environmental applications of GIS, water and health in developing countries

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, M.S. in Geoenvironmental Studies

GRANTED 9/1/13-8/31/14:48 Bachelors, 6 Masters

STUDENTS IN RESIDENCE: 190 Majors, 46 Masters

NOT IN RESIDENCE: 46 Masters

CHAIR: William Blewett

DEPARTMENT ADMINISTRATIVE ASST: Tori Morgan

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: vlmorgan@ship.edu. Internet: www.ship.edu/Geo-ESS/.

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE: The department has two programs of study: the liberal arts Geography Program and the geoenvironmental studies 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. Three 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. Human Environmental Studies examines climate, land resources, and water resources from the human perspective. The field integrates the study of the physical and cultural aspects of the environment into a meaningful framework to solve complex environmental problems with an emphasis on technology and fieldwork. 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 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 narrow, 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, meteorologic, hydrologic, soil, and subsurface surveys. IBM and UNIX computers housing a wide variety of software systems are located in the department's GIS labs. The department has a number of advanced GPS units, total stations, GPR and EM units, air and water monitoring systems, and other integrated field technologies that are available for student use.

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., Arizona State University, 2001, Associate Professor — soils, GIS, physical geography, remote sensing, map and air photo interpretation
- William L. Blewett, Ph.D., Michigan State, 1991, 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, petrology, marine environment
- Scott Drzyzga, Ph.D., Michigan State, 2007, Associate Professor GIS, geographic techniques, human geography
- Alison E. Feeney, Ph.D., Michigan State, 2000, Associate Professor — computer cartography, GIS, North America
- Thomas P. Feeney, Ph.D., Georgia, 1997, Professor geomorphology, hydrology, karst, groundwater, geologic hazards, soils
- Kurtis G. Fuellhart, Ph.D., Pennsylvania State, 1999, Professor cultural geography, economic geography, regional development and analysis
- Timothy W. Hawkins, Ph.D., Arizona State, 2004, Associate Professor — meteorology, climatology, hydrology
- Claire A. Jantz, Ph.D., Maryland, 2005, Associate Professor geographic techniques, land use, ecosystem science, regional planning
- Paul G. Marr, Ph.D., University of Denver, 1996, Professor transportation, historical geography, quantitative techniques, Latin America
- George M. Pomeroy, Ph.D. University of Akron, 1999, Professor urban geography, regional development and planning, land use, Asian studies
- Janet Smith, Ph.D., Georgia, 1999, Associate Professor GIS, computer mapping, cartography, geography education
- Kay Williams, Ph.D., Georgia, 1995, Associate Professor climatology, biogeography, conservation, atmospheric issues
- Christopher J. Woltemade, Ph.D., Wisconsin, 1993, Professor hydrology, water resources management, soils, field techniques, fluvial geomorphology, environmental restoration
- Joseph T. Zume, Ph.D., University of Oklahoma, 2007, 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 GIS; M.A. in Geography and Urban Studies; Graduate Certificate in GIS; Ph.D. in Geography and Urban Studies

- GRANTED 8/22/12-8/22/13: 25 Bachelors in Geography and Urban Studies; 45 Bachelors in Environmental Studies; 7 Masters of Arts in Geography and Urban Studies; 3 Ph.D. in Geography and Urban Studies
- STUDENTS IN RESIDENCE: 174 Majors; 9 Masters; 20 Ph.D.

CHAIR: Melissa Gilbert

DEPARTMENT ADMINISTRATIVE ASST: Anne Eckert

FOR FURTHER INFORMATION WRITE TO: Tycina Cousin, Department of Geography and Urban Studies, 308 Gladfelter Hall, Temple University, Philadelphia PA 19122. Telephone (215) 204-7692. Fax (215) 204-7633. 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 P.S. M. (Professional Science Master's) 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 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 organization, and social movements in the local region, many other regions in the United States, and several significant international location (South and East Asia, Latin America, West Africa).

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. 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 or urban residents as well as for private sector firms whose business requires and understanding of urban and spatial dynamics.

The MA 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 P.S.M. (Professional Science Master's 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 P.S.M. program requires 30 credits and follows a year-long, fulltime model that provides an intensive experience for studentprofessionals 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 will provide students with a research project or industry experience, depending on their primary interests. All courses will emphasize practical skills such as 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. Twenty-four faculty members from all across Temple's programs - including architecture, community and regional planning, education, criminal justice, sociology, economics, and public health are designated affiliated faculty of our program. 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.

The challenges and opportunities that face cities and metropolitan regions are central to the well being of billions of people around the globe. Our graduate program focuses 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-studiesphd. Admission requirements for the M.A. program are available at: http://bulletin.temple.edu/graduate/scd/cla/geography-urban-studiesma/#admissiontext. Admission requirements for the PSM in GIS are available at: http://bulletin.temple.edu/graduate/scd/cla/geographicinformation-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, Visiting Assistant Professor social and cultural geography; sexuality, gender, and space; geographies of whiteness in contemporary South Africa; intersection between migration and transnationalism and identity

- Ryan Burns, PhD, University of Washington, 2015, Visiting Assistant Professor — Geoweb, digital humanitarianism, Big Data, urban geography, science & technology studies, critical humanitarian studies, geovisualization/information visualization, public policy and public scholarship
- Sanjoy Chakravorty, Ph.D., Southern California, 1992, Professor distribution, development, globalization, cities, regions
- Fletcher Chmara-Huff, Ph.D., Ohio State, 2011, Visiting Assistant Professor — 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
- 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
- Lee Hachadoorian, Ph.D., CUNY Graduate Center, 2011, Visiting Assistant Professor — 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, Assistant 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, Visiting Assistant Professor GIS, information technology, e-government, the digital divide, community planning
- Robert J. Mason, Ph.D., Rutgers, 1986, Professor environmental policy, land use planning and growth management, parks and protected areas, hazards and risk, tourism, Japan, Asia
- Michele Masucci, Ph.D., Clark, 1987, Professor and Vice Provost 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
- Jessica Miller, Ph.D., The Graduate Center, CUNY, 2015, Visiting Assistant Professor — environmental and human geography, urban-regional dynamics, urban political ecology, city and identity, environmental inequity, planning, water resources, environmental gentrification and displacement, brownfields, waterfront redevelopment
- David Organ, Ph.D., Berkeley, 1995, Visiting Assistant Professor historical geography, urban geography and African American Studies
- Hamil Pearsall, Ph.D., Clark, 2009, Assistant 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, Assistant Professor and Director of Environmental Studies metropolitan planning and governanace in the U.S. and Latin America, environmental planning, land use and growth management, urban politics, management of mega-cities
- Rickie Sanders, Ohio State, 1981, Professor urban social geography, geographic education/under-represented groups, environment and development

- Kolson Schlosser, Ph.D., 2007, Pennsylvania State, Visiting Assistant Professor — political ecology of mineral resource extraction in northern North America, environmental history, critical geopolitics, population geography, geographic pedagogy
- Jacob Shell, Ph.D., 2012, Syracuse, Assistant 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, Visiting Assistant Professor — immigration, economic development, gender violence, diversity issues in community development
- Sandra Zupan, Ph.D., University of Wisconsin-Milwaukee, 2010, Visiting Assistant Professor — neoliberal urban governance, local economic development, community organizations, laborcommunity 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 Bartelt, Ph.D., Temple, 1979, Professor Emeritus housing policy, urban social theory, urban schools, urban economic development
- 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 9/1/13 - 8/31/14: 9 Bachelors MAJORS: 21 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 50 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 metholodogy 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 technology. 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:

- Gregory E. Faiers, PhD, Louisiana State, 1986, Associate Professor — physical, climatology, environmental, natural hazards, water resources
- Ola Johansson, PhD, Tennessee, 2004, Associate 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

Mary Pfau Lavine, PhD, Pittsburgh, 1976, Professor Emerita

VILLANOVA UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND THE ENVIRONMENT DATE FOUNDED: 1966 (Re-established in 2007) DEGREES OFFERED: B.A., B.S. GRANTED 8/22/14-8/22/15: 30 Bachelors 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. Email: francis.galgano@villanova.edu. Internet: http://www.villanova.edu/artsci/geoenv/.

PROGRAMS AND RESEARCH FACILITIES:

The Department of Geography and the Environment is Villanova's newest department and offers B.A. degrees in Geography and one in Environmental Studies, and a B.S. in Environmental Science. The department also offers minors in Geography and Environmental Studies. 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 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 Geospatial Sciences. Additionally, the department has just added a full suite of state-of-the-art GPS equipment and offers a GPS certification program. The department is developing a masters program, which is expected to be in place in academic year 2017.

The department sponsors the Eta Lambda Chapter of Gamma Theta Upsilon, the International Geographical Honor Society. Students enrolled in the 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 and now has a state-of-the-art, multi-function teaching lab.

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, Assistant 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, applied climate, environmental change, natural resources
- Bangbo Hu, Ph.D., Wisconsin-Milwaukee, 1994, Associate Professor — physical geography, GIS, air photo interpretation, cartography, Asia
- John L. Kelley, M.A., University of Georgia, 1981, Instructor remote sensing
- J. Harold Leaman, Ph.D., SUNY-Buffalo, 1976, Associate Professor — economic geography, urban geography, economic development, Africa
- Ross A. Lee, Ph.D., Michigan State University, 1975, Instructor green science
- Stephen J. Levas, Ph.D., Ohio State University, 2012, Post-Doctoral Teaching Fellow — environmental science, coral reef biogeochemistry
- Lisa J. Rodrigues, Ph.D., University of Pennsylvania, 2005, Associate Professor — environmental science, coral reef biogeochemistry
- Lori A. Sutter, Ph.D., College of William and Mary School of Marine Science — environmental science, marsh 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.A. and M.A. in Geography, B.A. in Elective Social Studies Education, Master in Public Administration/Urban and Regional Planning Concentration

POST BACCALAUREATE CERTIFICATES OFFERED: Geographic Information Systems (GIS), GIS Online, Urban and Regional Planning

GRANTED 9/1/12-8/31/13: 19 Bachelors, 12 Masters, 21 Certificates

STUDENTS IN RESIDENCE: 77 Majors, 46 Masters

NOT IN RESIDENCE: 5 Masters

CHAIR: Dorothy Ives Dewey

DEPARTMENT ADMINISTRATIVE ASST: Sarah Pavlor

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 Affairs, offers undergraduate majors and minors in geography, planning, 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 specialize in one of five specific areas of interest: (1) Geography, (2) Geographic Information Systems (GIS), (3) Planning, (4) Environmental, (5) Elective Social Studies Education. All five B.A. "tracks" provide comprehensive backgrounds in geography as a field of study. Students are encouraged to apply their knowledge and skills through directed internship experiences prior to graduation.

Graduate: Graduate programs include the Master in Public Administration (MPA) and the M.A. in Geography. The M.P.A. is an interdisciplinary degree which has a concentration in Urban and Regional Planning as well as six courses of instruction in specific administration skills (e.g., computer applications, accounting, and budgeting). There are two certificate programs.

The M.A. in Geography develops skills and expertise for problem solving in such areas as land use planning, demographic research, conservation of natural resources, urban environmental analysis, economic development, and GIS. It is a 33-hour thesis or non-thesis program. Internships are possible in both Masters programs.

The Certificate in Geographic Information Systems consists of six 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 six courses can be counted towards a Masters Degree program in Geography and 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 the M.P.A.

The Department's facilities in Ruby Jones Hall and Anderson Hall include GIS laboratories with Arc/GIS suite of 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/or standardized test scores, 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
- Kristen B. Crossney, Ph.D., Rutgers University, 2006, Assistant Professor — urban studies, planning and policy, housing
- George W. Fasic, M.S., Urban Planning, Columbia, 1962, Part-time, Assistant Professor — (Former Director, Chester County Planning Commission)
- Joy A. Fritschle, Ph.D., Wisconsin-Madison, 2007, Associate 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, Associate Professor — planning, 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., and Ph.D. GRANTED 7/1/14-6/30/15: 15 Bachelors, 7 Masters, 7 Ph.D.

STUDENTS IN RESIDENCE: 60 Majors, 26 Masters, 28 Ph.D.

CHAIR: John A. Kupfer

GRADUATE PROGRAM COORDINATOR: Mr. Capers Stokes

FOR CATALOG AND FURTHER INFORMATION WRITE TO: 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. Caroline Nagel, cnagel@mailbox.sc.edu. For more information about the department and to request graduate application materials 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, physical geography, nature and society, and human geography focused on space, place, inequality and identity. In addition to considerable expertise in a variety of regions in the United States, the department also has international regional expertise in Africa, the Middle East, South America and Europe.

Geographic Information Sciences in the department encompasses an understanding of cartography and geovisualization, remote sensing of the environment, spatial analysis and data mining, and geographic information systems (GIS). GIScience faculty conduct research that addresses basic questions in geographic technologies as well as applications of geospatial technologies to problems in hazards, public health, population studies, landscape ecology, geomorphology, and environmental change.

Physical geographers in our department investigate patterns and processes associated with the atmosphere, biosphere, hydrosphere, and lithosphere and explore the nature and causes of their natural variability and change. Specialized expertise includes climatology and meteorology, fluvial and aeolian geomorphology, hydrology, biogeography and landscape ecology. Many of our physical geographers utilize geospatial technologies in their work.

Nature and Society specialists in the department focus on understanding the patterns and processes of human-environmental interactions. The increasing complexity of coupled natural and human systems necessitates an integrative perspective for understanding local to global environmental transformations and changing human security. Our faculty specialize in a range of relevant areas, including political ecology; human dimensions of global change; risks, vulnerability, and hazards; and resource use and management.

Space, Place, Identity and Inequality are the focus of several human geographers in the department. At the core of the research of this group is a critical approach to understanding how people construct their identity and inequality across scales and locations. The theorybuilding and empirical research of this group focuses on the spatiality of economic, cultural, social, and political power.

The department offers Ph.D., M.A., M.S., B.A., and B.S. degrees focused on these thematic areas. The Ph.D. program prepares students for high-level careers in the geographic profession. Ph.D. graduates are prepared for positions in governmental agencies, corporations, and businesses, as well as for careers as college or university faculty members. The M.A. and M.S. programs prepare students for further graduate study and for employment in planning, business, government service, and teaching. The M.A. degree is for students with interests in human and regional geography, whereas the M.S. degree is for students with interests in physical/environmental and technical geography including geographic information science. The department offers the B.A. and B.S. degrees in Geography with concentrations in physical/ environmental, human/economic, and geographic information science. The internship program allows advanced undergraduates and graduate students to acquire on-the-job experience to enhance their professional development and to smooth the transition from university to career settings. 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 the newly emergent field of hazard vulnerability science. 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 Earth Surface Patterns and Processes Lab Complex, the Beach and Dune Processes Laboratory, the South Carolina Applied Landscape Ecology Lab, and the Humanitarian Response and Development Lab.

The department is a founding member of the University Consortium for Geographic Information Science (UCGIS) and has extensive computer resources. These include over 100 computers with ArcGIS, ERDAS, and other state-of-the-art software. 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 employs a full-time systems analyst and 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 introductory courses in physical geography (including a lab) and human geography, as well as a senior capstone seminar, for a total of 10 hours. Additional coursework (21-24 hours) can be taken in one of the three specialized concentrations (physical/environmental, human/economic, 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 lower division and upper division courses. Cognate and minor arrangements exist with several professional schools (Business Administration, Journalism, Public Health, etc.) and with other units in the College of Arts and Sciences, such as Earth and Ocean Sciences, Marine Science, Environmental Studies, Media Arts, Political Science, International Studies, and Economics.

GRADUATE: Academic Plan: The Doctoral program has a core requirement of 9 semester hours. Additional electives (12 semester hours) 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. All doctoral students will serve as an instructor or teaching assistant for at least one course.

The Masters degree programs require a minimum of 31-37 semester hours of graduate work. 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 work in other University departments. Specialization in the M.A. and M.S. programs is normally attained by writing a thesis in addition to at least 25 semester hours of coursework. Prior to the start of the fall semester, the department sponsors a required regional field excursion for all entering graduate students.

Admissions Requirements: In support of an application, a student is 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.

Financial Aid: Graduate assistantships carry stipends of \$12,500-\$13,500 for the academic year. Fellowships are available on a highly competitive basis for up to \$15,000 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 culture and politics of resource use and environmental change in the Middle East, environment and development
- Sarah Battersby, Ph.D., University of California, Santa Barbara, 2006, Associate Professor — cartography, cognitive science, geography education
- Gregory J. Carbone, Ph.D., Wisconsin-Madison, 1990, Professor climatology, environmental decision-making
- Edward R. Carr, Ph.D., Syracuse University, 2001, University of Kentucky, 2002, Associate Professor — development, globalization, human dimensions of global change, Africa
- Susan L. Cutter, Ph.D., Chicago, 1976, Carolina Distinguished Professor — environmental hazards and risks, environmental policy, natural resources
- Kirstin Dow, Ph.D., Clark, 1996, Professor human dimensions of global environment change, environmental/climate hazards, vulnerability, and adaptation
- Jean T. Ellis, PhD., Texas A&M, 2006, Associate Professor geomorphology, aeolian and coastal sediment transport, coastal management, applied science
- Chris Emrich Ph.D., South Carolina, 2005, Research Associate Professor — emergency management, disaster recovery, emergent technology
- Melanie Gall, Ph.D., South Carolina, 2007, Research Assistant Professor — environmental hazards & risk; vulnerability, resilience and adaptation, emergency management and policies
- 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 social impacts of energy and infrastructure, economic geography
- 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
- L. Allan James, Ph.D., Wisconsin-Madison, 1988, Professor geomorphology, surface hydrology, water resources, Quaternary science
- David Kneas, Ph.D., Yale, 2014, Assistant Professor environmental anthropology in Latin America, science and technology studies
- John A. Kupfer, Ph.D., Iowa, 1995, Professor biogeography, landscape ecology, public land management, spatial analysis, GIScience
- Zhenlong Li, Ph.D., George Mason University, 2015, Assistant Professor — spatial high-performance/cloud computing; big data management, processing and analysis; environmental modeling and simulation
- Amy Mills, Ph.D., Texas, 2004, Associate Professor cultural landscapes and historical memory, urban cultures, place and identity, gender and urban space, nationalism and modernity, 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., University of Colorado, 1998, Associate Professor — migration, transnationalism, identity, citizenship, Arab immigrants

Cuizhen (Susan) Wang, Ph.D., Michigan State University, 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 Robert L. Janiskee, Ph.D., Illinois, 1974
- John R. Jensen, Ph.D., UCLA, 1976
- Charles F. Kovacik, 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; PhD in Geospatial Science and Engineering

GRANTED 1/1/14-12/31/14: 14 Bachelors, 10 Masters STUDENTS IN RESIDENCE: 50 Majors, 30 Masters NOT IN RESIDENCE: 10 Masters HEAD: George W. White 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) 688-4840. Fax (605) 688-4030. E-mail: George.White@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, and minors in

The H.M. Briggs Library contains the largest geography collection in the state. It is a government depository and has a full complement of USGS topographic maps and South Dakota Fire Insurance Maps. 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 has recently begun an overseas summer experiences in West Africa. The graduate program in geography includes coursework in geospatial techniques; physical environment; political geography, culture, and place; and rural and urban land systems.

FACULTY:

- Hilary Hungerford, Ph.D., University of Kansas, 2012, Assistant Professor — urban, community development, water, qualitative methods, Africa
- Yan Lin, Ph.D., Texas State University-San Marcos, 2013, Assistant Professor — GIS, public health, GIS applications in the environment
- Trisha Jackson, Ph.D., University of Kansas, 2011, Assistant Professor — physical, human-environment interactions, soil science, climate change, sustainability science, and food systems
- Bruce Millett, Ph.D., South Dakota State University, 2004, Assistant Professor — physical, air photo
- Darrell Napton, Ph.D., Minnesota, 1987, Professor land use and land use systems, human-environmental interactions, sustainability and future geographies, rural and agricultural, and North America
- David Roy, PhD., Cambridge University, 1994, Professor physical, remote sensing, land use land cover change.
- Robert Watrel, Ph.D., Nebraska, 2001, Associate Professor cartography, political, Great Plains
- George W. White, Ph.D., University of Oregon, 1994, Professor and Head — world regional, political, culture, ethnicity, and identity formation, Europe, geographic thought
- Xiaoyang Zhang, PhD., Associate 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:

- Norman Bliss, Ph.D., Associate Professor, EDC, University of Pennsylvania, 1978
- Erin Hogan Fouberg, Ph.D., Associate Professor, University of Nebraska, 1997
- Alisa Gallant, Ph.D., Associate Professor, EDC, Colorado State University, 1997
- Dean B. Gesch, PhD., Assistant Professor, EDC, South Dakota State University, 2006
- Chandra P. Giri, Ph.D., Associate Professor, EDC, Asian Institute of Technology-Bangkok
- Rachel Headley, Ph.D., Assistant Professor, The Pennsylvania State University, 2003

Robert W. Hill, M.S., Instructor, South Dakota State University, 2003 Lauri B. Sohl, M.S., Instructor, South Dakota State University, 2002 Gray Tappen, M.A., Assistant Professor, University of Kansas, 1981 Limin Yang, Ph.D., Professor, EDC, University of Nebraska, 1994

- The following are Research Scientists at the Geospatial Sciences Center of Excellence (GSCE) at South Dakota State University:
- Geoffrey Henebry, PhD., Professor, University of Texas at Dallas, 1989, GIScCE, Interim Co-Director
- Mark Cochrane, PhD., Professor, Pennsylvania State University, 1998
- Niall Hanan, PhD., Professor, University of London, 1990
- Thomas Loveland, Ph.D., Professor, EDC, University of California-Santa Barbara, 1998
- Lara Prihodko, PhD., Research Assistant Professor, Colorado State University, 2004
- David Roy, PhD., Professor, Cambridge University, 1994
- Gabriel Senay, PhD., Associate Professor, EDC, Ohio State University, 1996
- James Vogelmann, PhD., Professor, Indiana University, 1983
- Mike Wimberly, PhD., Professor, Oregon State University, 1999
- Xiaoyang Zhang, PhD., Associate Professor, University of London, 1999

TENNESSEE

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; Ph.D., Earth Sciences

GRANTED 8/22/13-8/22/14: Earth Sciences 12 Bachelors, 7 Masters, 6 Certificates, 5 Ph.D.

CHAIR: Dr. Daniel Larsen

DEPARTMENT ADMINISTRATIVE ASSOC.: Ms. Julia Crutchfield

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Ms. Julia Crutchfield, Department of Earth Sciences, University of Memphis, Johnson Hall 111, Memphis, TN. Telephone (901) 678-2177. Fax (901) 678-2178. E-mail: jscrtchf@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, and a non-thesis M.A. degree. 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, 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, Assistant 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
- Robert Connolly, Ph.D., University Illinois at Urbana-Champaign, 1996, Assistant Professor and Director, Chucalissa Museum — Museum studies, Archaeology, Eastern Woodlands cultures
- Randel Cox, Ph.D., University of Missouri, 1995, Professor Active tectonic, Geomorphology, Hazards
- David Dye, Ph.D., Washington University, St. Louis, 1980, Professor — Archaeology
- Arleen Hill, Ph.D., University of South Carolina, 2002, Associate Professor — Hazards, Nature-Society Interaction, Spatial Analysis
- Julie Johnson, Ph.D., Florida International University, Instructor Igneous Petrology, Mineralology, 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, Associate 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 7/1/2013-06/30/2014: 28 Bachelors, 7 Masters, 3 Ph.D.

STUDENTS IN RESIDENCE: 70 Majors, 20 Masters, 27 Ph.D.

NOT IN RESIDENCE: 8 Masters, 8 Ph.D.

HEAD: Derek H. Alderman

ASSOCIATE HEAD: Henri D. Grissino-Mayer

DIRECTOR OF GRADUATE STUDIES: Joshua Inwood

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 FACILITIES:

UNDERGRADUATE: Geography, in the College of Arts and Sciences, offers a B.A. degree and an honors option with a senior thesis. The major emphasizes the breadth of the discipline while allowing students to assemble a mix of courses and skills uniquely suited to their interests and career needs. Skills acquired include GIS, cartography, 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 Cartography, the Senior Proseminar, a methods course, a physical geography course, a human geography course, a regional studies course, and nine additional hours. 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; geocomputation 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. Completion of a Master's Degree is required prior to full admission into the Ph.D. program. 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 FACILITIES: The Burchfiel Geography Building (BGB) is centrally located near other natural science departments and various University resources, including the library, with a map library housing one of the nation's largest geosciences collections. Both the University and Department computer labs contain a wide array of GIS, remote sensing, and statistical software. The BGB houses Cartography, GIS, and Remote Sensing facilities; 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
- Joshua Inwood, Ph.D., Georgia, 2007, Associate Professor urban, cultural, critical race theory, qualitative methods economic geography
- Ronald V. Kalafsky, Ph.D., SUNY at Buffalo, 2002, Associate Professor — economic geography
- 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, Assistant Professor — spatial analysis, population geography, urban geography
- Madhuri Sharma, Ph.D., Ohio State, 2009, Assistant 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, Associate Professor environmental modeling, integrated environmental assessment
- Francoise Micheline van Riemsdijk, Ph.D., Colorado, 2008, Assistant Professor — population, migration, urban, gender, qualitative methods
- Robert A. Washington-Allen, Ph.D., Utah State University, 2003, Assistant Professor — biogeography, complex systems, landscape ecology, pastoralism, remote sensing, spatial modeling

TECHNICAL STAFF:

- William Fontanez, M.S., Ohio University, 1981, Director of Cartographic Services Laboratory
- Parmanand Sinha, Ph.D., University of Texas-Dallas, 2015, Post-Doc — spatial statistics, spatial optimization, urban economies

ADJUNCT FACULTY:

- 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

- Matthew Heric, Ph.D., Virginia Tech, 1996, Adjunct Assistant Professor — GIS, remote sensing, cultural modelling, 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, paleoclimate
- Robert Pavlowsky, Ph.D., Wisconsin (Madison), 1995, Adjunct Professor — geomorphology, water quality, soils
- Dali Wang, Ph.D., NY Rensselaer Polytechnic Institute, Adjunct Assistant Professor — environmental engineering
- Thomas Wilbanks, Ph.D., Syracuse University, Adjunct Professor energy and environmental policy, global change, technology and society

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

SAM HOUSTON STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND GEOLOGY DATE FOUNDED: 1879

- DEGREES OFFERED: B.A. (Geography, Social Science Composite), B.S. (Geography, Geology, Social Science Composite), M.S. (Applied Geographic Information Systems)
- DEPARTMENT ADMINISTRATIVE ASSISTANT: Camy Dawson

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Department of Geography and Geology, Box 2148, Sam Houston State University, Huntsville, Texas 77341-2148. Telephone (936) 294-1451. Fax (936) 294-4203.

Internet: http://www.shsu.edu/~gel_geo/ (department) and http://www.shsu.edu/catalog/geo.html (catalog).

PROGRAMS AND FACILITIES:

Undergraduate: The Geography Program incorporates a three-track curriculum and is designed to fit the particular academic needs of our students and better prepare them for life beyond SHSU, particularly in terms of graduate study or employment opportunities. Student majors may choose to focus their program within one of three tracks, each providing a broad geographical background yet emphasizing different

foci of study. The human geography tract is designed for students primarily interested in the broad geographical study of human or cultural phenomena. The environmental geography tract is designed for students interested in orienting their program of study around the spatial interactions between human society and the physical environment. The geo-spatial information sciences tract is designed for students more interested in developing skills in the application of a variety of geo-spatial technologies. Course curricula offers considerable opportunities for students to engage in field-courses and study abroad endeavors, both within the U.S. and internationally.

Graduate: The Applied Geographic Information Systems (GIS) program provides participants the critical knowledge to succeed in the challenging world of geospatial technologies. This includes advanced classes and labs in global positioning systems (Trimble), remote sensing (ERDAS IMAGINE), GIS (ArcGIS) and web-based mapping and spatial analysis. In particular, applications of these technologies in the oil and gas industry, parcel mapping, local government, national security and market research are featured. Additionally, this program is designed to enhance an individual's knowledge in scientific investigations. resource management, asset management. environmental impact assessment, and urban planning. The program also incorporates a focus upon the ways that GIS technologies may be utilized to create digital databases to be used across a wide range of endeavors. Graduate assistantships are available. Contact Dr. Falguni Mukherjee at 936-294-1073 or fsm002@shsu.edu for more information on the M.S. degree in Applied Geographic Information Systems.

Graduate Application Requirements: 1) Graduate Studies Application 2) Application fee 3) Official transcripts of all collegelevel work 4) Two letters of recommendation from the faculty members at the student's undergraduate degree-granting institution 5) Official GRE scores. A limited number of scholarships and graduate assistantships are available on a competitive basis. For more information on Graduate Studies visit http://www.shsu.edu/~grs_www/.

Facilities: Located on the third floor of the Lee Drain Building, the Department maintains both a Geographic Information Systems (GIS) lab and a combination GIS and remote sensing lab. These labs contain state-of-the-art computers, software and scanners. We also have a van for fieldtrips, a Zodiac watercraft used for field research, a coring device capable of taking up to 6m core samples, high-quality GPS receivers, a large-scale flume to demonstrate sedimentation processes, and a Ground Penetrating Radar System. In order to enhance learning, all of our rooms are outfitted with video-projection systems, and our lecture rooms have sound systems and dedicated computers with Internet access that are used by the instructors for teaching purposes.

FACULTY:

- Gary D. Acton, PhD, Northwestern University, 1990, Assistant Professor — Geophysics
- Samuel Adu-Prah, PhD, Southern Illinois University, 2013 Geographical Information Systems (GIS), Environmental Modeling
- Don Albert, PhD, University of North Carolina, 1996, Professor and Editor-in-Chief of the International Journal of Applied Geospatial Research — applied geography, medical geography, geographic education
- Brian Cooper, PhD, Virginia Polytechnic Institute and State University, 1988, Associate Professor, Chair and Program Coordinator of Geology — mineralogy, petrology
- Ava Fujimoto-Strait, M.A., University of Georgia, 1999, Instructor and Geography Lab Coordinator — biogeography, Hawaii
- Marcus Gillespie, PhD, Texas A&M, 1992, Associate Professor physical geography, geomorphology, conservation
- Gang Gong, PhD, Boston University, 2006, Associate Professor GIS, computer cartography, remote sensing, transportation geography

- J. Patrick Harris, PhD, Texas A&M, 1997, Assistant Professor clay mineralogy, low temperature geochemistry
- Joseph Hill, PhD, University of Missouri-Columbia, 2006, Associate Professor — structural geology, metamorphic petrology, plate tectonics
- Mark Leipnik, PhD, University of California-Santa Barbara, 1995, Professor — GIS (applications in law enforcement, environmental and business geography), environmental geography, hydrology
- Falguni Mukherjee, PhD, University of Wisconsin-Milwaukee, 2009, Assistant Professor, Graduate Program Coordinator — critical GIS, GIS and urban governance
- Velvet Nelson, PhD, Kent State University, 2006, Assistant Professor — tourism geography, cultural geography, human-environment interactions
- John B. Strait, PhD, University of Georgia, 1999, Professor, Assistant Chair & Geography Program Coordinator — social/cultural geography, urban geography, ethnic geography, geography of music, U.S. South, Hawaii
- Jeanne Lambert-Sumrall, PhD, Mississippi State, 2014, Adjunct Geography Instructor — Geoscience Education
- Jonathan Sumrall, PhD, Mississippi State University, 2013 Sedimentology, Carbonate Petrology, Isotope Geochemistry
- Jim Tiller, PhD, University of Oklahoma, 1969, Professor historical geography, Texas

EMERITUS FACULTY:

- Christopher T. Baldwin, PhD, University of Liverpool, 1977, Professor — sedimentology, paleontology, paleobiology
- C. Allen Williams, PhD, University of Oklahoma, 1973, Professor human/cultural 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 9/1/12-8/31/13: 59 Bachelors (30 Geography, 29 Environmental Studies) 5 Masters, 6 Ph.D.

STUDENTS IN RESIDENCE: 56 Geography, 65 Geographic Information Sciences and Technology, 133 Environmental Studies and 1 Spatial Sciences Majors, 22 Masters, 31 Ph.D.

NOT IN RESIDENCE: 0 M.S., 0 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:growe@geog.tamu.edu.

Internet: http://geography.tamu.edu/. Online catalog can be obtained from Admissions, at http://catalog.tamu.edu/. An application is available at 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 *Geography Education* program emphasizes research on how geography is taught and learned. Topics include spatial learning, effective use of information technology, assessment, and institutional factors in geography education. 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 PCbased 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 with an option in Geographic Information Science that requires 24 units of directed electives in addition to the requirements of the Major. 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 2015 should be submitted by January 1, 2015, 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:

- Robert S. Bednarz, Ph.D., Chicago, 1975, Professor spatial thinking and cognition, geographic education, economic, urban, property value, taxation
- Sarah W. Bednarz, Ph.D., Texas A&M, 1992, Professor geography education, human geography, curriculum development, environmental education, GIScience and education, education for sustainable development
- 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

- Christian Brannstrom, Ph.D., Wisconsin, 1998, Professor and Director of Environmental Programs — political/cultural ecology, historical geography, agriculture, Latin America
- David M. Cairns, Ph.D., Iowa, 1995, Professor and Department Head — biogeography, landscape ecology, ecosystem modeling, GIS applications
- Michael C. Ewers, Ph.D., The Ohio State University 2010, Assistant Professor — economic development, knowledge transfer, migration, oil, Middle East
- 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, Assistant Professor — synoptic climatology, surface-atmosphere interactions, climate change
- John R. Giardino, Ph.D., P.G., Nebraska, 1979, Professor and Head of Geology and Geophysics Department — periglacial, engineering and fluvial geomorphology, Earth science education (joint appointment with Geology and Geophysics)
- Daniel Goldberg, PhD., University of Southern California, 2010, Assistant Professor — GIS, CyberGIS, GIS Programming & Algorithms, Spatial Databases, HealthGIS (joint appointment with Computer Science)
- Inci Guneralp, Ph.D, Illinois, Urbana-Champaign, Associate Professor — fluvial geomorphology, lowland rivers, spatiotemporal modeling, human impact on fluvial systems
- 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).
- Chris Houser, Ph.D., Toronto, 2004, Associate Professor and Associate Dean for Academic Affairs and Faculty Development — process geomorphology, ecogeomorphology, coastal and aeolian environments (joint appointment with Geology and Geophysics)
- Peter J. Hugill, Ph.D., Syracuse, 1977, Professor cultural/historical, political, world system theory, landscape, Anglo-America
- Wendy Jepson, Ph.D., UCLA, 2003, Associate Professor and Undergraduate Program Director — land-use and land-cover change, political ecology, economic geography, water resources, environmental justice, Latin America
- Andrew G. Klein, Ph.D., Cornell, 1997, Professor remote sensing, GIS, glacial geomorphology, cryosphere, hydrology
- Charles W. Lafon, Ph.D., Tennessee, 2000, Professor and Assistant Department Head — biogeography, vegetation dynamics
- Kathleen O'Reilly, Ph.D., Iowa, 2002, Associate Professor political/cultural ecology, gender, water resources, South Asia, queer studies
- Steven M. Quiring, Ph.D., Delaware, 2005, Associate Professor and Graduate Program Director — climatology, drought, hydroclimatology
- E. Brendan Roark, Ph.D., California, Berkeley, 2005, Assistant Professor — paleoceanography, geochemistry, earth system sciences, corals, deep-sea corals
- Jamie E. Shinn, Ph.D., Penn State, 2015, Associate Professor political ecology, environmental governance, climate change, vulnerability, Africa
- 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)
- Michael R. Waters, Ph.D., Arizona, 1983, Professor geoarcheology, fluvial geomorphology, Quaternary (joint appointment with Anthropology)

EMERITI FACULTY:

Clarissa T. Kimber, Ph.D., Wisconsin, 1969, Professor Emeritus — plant geography, sustainable agriculture, Caribbean

Campbell W. Pennington, Ph.D., California-Berkeley, 1959, Professor Emeritus — historical geography of the United States, Middle America, Mexico

AFFILIATED AND GRADUATE FACULTY:

- Jean Ann Bowman, Ph.D., Texas A&M, 1992, Research Scientist hydrology, hydroclimatology, water resources
- Keith D. Gaddis, Ph.D., UCLA, 2014, Visiting Assistant Professor Landscape genetics
- Burak Güneralp, Ph.D., Illinois, Urbana-Champaign, Research Assistant Professor — urbanization and global environmental change, urban land-use change, interactions between socioeconomic and biophysical systems, systems modeling, remotesensing applications
- James B. Kracht, Ph.D., Washington, 1971, Professor geographic education, curriculum development, urban, United States
- Jim Norwine, Ph.D., Indiana State, 1971, Regents Professor, Texas A&M University-Kingsville, Kingsville, TX — climate, philosophy of geography
- Wendy W. Patzewitsch, Ph.D., Texas A&M University, 2007, Lecturer — historical geography, Texas water resources
- Erik Prout, Ph.D., Louisiana State, 2001, Instructional Assistant Professor — cultural and political geography
- 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
- Jayme Walenta, Ph.D., University of British Columbia, 2008, Visiting Assistant Professor — economic and environmental geography

TEXAS CHRISTIAN UNIVERSITY

DEPARTMENT OF HISTORY AND GEOGRAPHY DATE FOUNDED: 2003 DEGREES OFFERED: B.A., B.S. in Geography GRANTED 9/1/13-8/15/14: 6 Bachelors MAJORS: 26 majors CHAIR: Jodi Campbell DEPARTMENT ADMINISTRATIVE ASSTS: Dana Summers, Stacey Theisen

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Benjamin F. Tillman, Department of History and Geography, TCU Box 297260, Fort Worth, Texas 76129. Telephone (817) 257-6301. 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 in geography, including World Regional Geography, Human Geography, and GIS, and 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 in historical urban geography, Latin American geography, geomorphology, and water resources. Field trips are a component of most upper-division geography courses and summer study abroad programs are available. Geography faculty members are located in the Department of History and Geography and the Department of Environmental Science and students have the advantage of participating in the activities of both departments.

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:

- 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, Lecturer urban, cultural, historical, United States, Western Europe
- Andrew Schoolmaster, Ph.D., Kent State 1979, Dean of AddRan College of Humanities and Social Sciences — applied
- Michael Slattery, D.Phil., University of Oxford, 1994, Professor, Chair of Department of Environmental Science, Director of Institute for Environmental Studies — hydrology, climatology, geomorphology, soils
- Benjamin F. Tillman, Ph.D., Louisiana State, 1999, Associate Professor — cultural, historical, Latin America
- Kyle Walker, Ph.D., University of Minnesota, 2012, Assistant 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, and Ph.D. in Geographic Education.
- GRANTED 9/1/13-8/31/14: 215 Bachelors, 28 Masters, 11 Ph.D.
- STUDENTS IN RESIDENCE: 641 Majors, 57 Masters, 57 Ph.D.
- CHAIR: Alberto Giordano; Associate Chair: Ronald Hagelman
- PROGRAM COORDINATORS: Richard Earl, Undergraduate Program Coordinator; Stella LoPachin, Staff Undergraduate Administrative Assistant; Yongmei Lu, Graduate Program
- Coordinator; Allison Glass, Staff Graduate Advisor DEPARTMENT ADMINISTRATIVE ASSTS: Angelika Wahl, Office Manager; Katie Alonzo, Patricia Hell-
- Wahl, Office Manager; Katie Alonzo, 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, 78666; Richard Earl (re02@txstate.edu) Texas Undergraduate Program Coordinator; or Stella LoPachin (sl15@txstate.edu), Staff Undergraduate Administrator; 3) about Graduate programs: Yongmei Lu (yl10@txstate.edu), Graduate Program Coordinator, or Allison Glass (am13@txstate.edu), Staff Graduate Advisor. Telephone (512) 245-2170. Fax (512) 245-8353. Web site: 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), 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 James and Marilyn Lovell Center for Environmental Geography and Hazards Research, and the Government Partnership Program (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 Web site 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, two letters of recommendation, 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. 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, 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-ofstate tuition. Students are still responsible for in-state tuition and fees. For full consideration for assistantships, applications should be received by January 15^{th} . 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, cryosphereclimate 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, 2001, 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 and Associate Chair — environmental, hazards and disaster, historical, land management and conservation, urban environment/agriculture
- Colleen Hiner, Ph.D., California at Davis, 2012, Assistant Professor — environmental management, cultural ecology, urban-rural fringe, qualitative methods
- 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
- Yongmei Lu, Ph.D., SUNY at Buffalo, 2001, Professor GIScience, urban and regional studies, crime, health, China and East Asia
- 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
- James F. Petersen, Ph.D., Utah, 1981, Professor physical, geomorphology, geographic education
- Andrew Sansom, Ph.D., Texas State, 2013, Professor of Practice water resources, parks and protected places, conservation leadership
- 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
- John Wagner, M.S., Texas Tech, 2001, Lecturer geology, structural geology
- Rusty 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:

- Russell S. Johnson, J.D., St. Mary's, 1977, Lecturer water policy and law
- Neil Kucera, J.D., Houston, 1986; M.A.G., Texas State, 2001, Lecturer — environmental law, energy and resource management
- Jo Beth Öestreich, Ph.D., Texas at Austin, 2002, Lecturer geographic education
- Christi Townsend, Ph.D., Texas State, 2012, Lecturer physical, research methods, world
- Jen Sembera, M.Ed., Texas State, 2013, Lecturer materials management, sustainability
- Shelley Plante, M.A.G., Texas State, 2007, Lecturer- nature and heritage tourism

EMERITUS FACULTY:

- Byron Augustin, D.A., Northern Colorado, 1975, Distinguished Professor — conservation, Latin America, geographic education, Middle East
- 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
- Susan M. Macey, Ph.D., Illinois, 1982, Professor environmental hazards, aging, medical, GIScience
- David Stea, Ph.D., Stanford, 1964, Professor spatial cognition, environmental perception, sustainable development

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: 8/1/13-8/1/14: 12 Bachelors STUDENTS IN RESIDENCE: 56 Undergraduate, 16 Masters, 4 PhD CHAIR: Jeffrey A. Lee DEPARTMENT ADMINISTRATIVE ASST: Alison Winton, Alisan Sweet

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.geosciences.ttu.edu/

PROGRAMS AND RESEARCH FACILITIES:

The Geography Program offers a Bachelor of Arts degree that requires a minimum of 125 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 15 hours of graduate GIS courses.

The department has three GIS teaching labs (20, 18 and 16 seat), and one physical geography lab. The University maintains an ESRI site license that provides students with access to the latest GIS software. The department also maintains field and laboratory equipment that are available for both undergraduate and graduate student research in physical geography and environmental studies. In addition to standard weather, surveying and sediment analysis equipment, students have access to GPS receivers and data loggers.

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:

- Lucia S. Barbato, M.A., UCLA, 1988, Associate Director, Center for Geospatial Technology — geographic information systems
- Guofeng Cao, Ph.D., UCSB, 2011, Assistant Professor Geographic information science, geostatistics, spatial uncertainty, cyberinfrastructure, GIS in public health and environmental science.
- Perry L. Carter, Ph.D., Ohio State, 1998, Associate Professor cultural, social, economic, geographies of consumption, geographies of race, methodology Gary S. Elbow, Ph.D., Pittsburgh, 1972, Professor and Associate Vice
- Gary S. Elbow, Ph.D., Pittsburgh, 1972, Professor and Associate Vice Provost for Academic Affairs — cultural, settlements and land utilization, development planning, Latin America, geography education
- 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 and Director, Center for Geospatial Technology — GIS, remote sensing, physical geography, arid environments, aeolian processes.
- Otis W. Templer, Ph.D., UCLA, 1969, Professor arid lands, environmental studies, water resources law, policy and management, biogeography, United States and Canada, Texas and the Southwest
- Jennifer Vanos, Ph.D., Guelph, 2011, Assistant Professor human biometeorology, urban climate, applied synoptic climatology, climate change and health, urban air pollution

UNIVERSITY OF NORTH TEXAS

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1920

GRADUATE PROGRAM FOUNDED: 1995

DEGREES OFFERED: B.A., B.S. in Geography; M.S. in Applied Geography; Ph.D. in Environmental Science

- GRANTED 9/1/13-8/31/14: 29 Bachelor's, 6 Master's (Geography)
- STUDENTS IN RESIDENCE: 123 Bachelor's, 33 Master's (Geography)

CHAIR: Paul F. Hudak

DEPARTMENT ADMINISTRATIVE ASSISTANT: Tami Deaton

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, 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; and environmental archaeology. Both undergraduate and graduate students also have access to internships; the department has collaborated with more than 50 government agencies and companies in the Dallas-Fort Worth metropolitan area.

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 geomorphology; ecosystems and water resources; urban and economic geography; and resource and energy governance.

CERTIFICATE IN GEOGRAPHIC INFORMATION SYSTEMS (GIS): The department offers a six-course certificate providing the conceptual understanding and technical proficiency necessary to apply GIS in various settings.

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 the graduate program potential success in of (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:

- Waquar Ahmed, Ph.D., Clark University, 2007, Assistant Professor socio-economic impacts and manifestations of capitalism; global governance institutions; corporate power and foreign direct investments; energy resources and infrastructure
- Ipsita Chatterjee, Ph.D., Clark University, 2007, Assistant Professor — economic, cultural, and geopolitical impacts of globalization; urban transformation and renewal
- Pinliang Dong, Ph.D., University of New Brunswick, 2003, Associate Professor — geographic information science; remote sensing
- C. Reid Ferring, Ph.D., University of Texas, Dallas, 1993; Ph.D., Southern Methodist University, 1980, Professor geoarchaeology; soils geomorphology; fluvial processes; paleoenvironments
- Matthew Fry, Ph.D., University of Texas, Austin, 2008, Assistant Professor — human-environment geography; Latin America; rural-urban relationships; cultural and political ecology
- Paul F. Hudak, Ph.D., University of California, Santa Barbara, 1991, Professor and Chair — environmental monitoring and remediation; geologic hazards; water resources

- 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, Assistant Professor — hydrology; water resources; modeling
- Alexandra G. Ponette-Gonzalez, Ph.D., Yale University, 2009, Assistant Professor — global environmental change; terrestrial ecosystems; biogeochemistry; environmental services
- Murray D. Rice, Ph.D., University of Saskatchewan, 1995, Associate Professor — applied economic geography; retail geography; urban and regional economic development
- Chetan Tiwari, Ph.D., University of Iowa, 2008, Assistant 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, Associate Professor paleozoology; conservation ecology; zooarchaeology; environmental archaeology

ADJUNCT FACULTY:

- Johnny Byers, M.S., University of North Texas, 2008 earth science; environmental archaeology
- Bruce Hunter, Ph.D., University of North Texas, 2005 geographic information systems; fire ecology
- Lorna Curran, M.S., University of North Texas, 2013 earth science; physical geology

THE 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: 09/01/13-08/31/14: 88 Bachelors, 3 Masters, 8 Ph.D.

STUDENTS: 293 Majors, 6 Masters, 28 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.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 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, Associate 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, Assistant 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 — #2- Soil and Agricultural Systems; Geomorphology; Water; Environmental Change; Paleoclimates, and Geoarchaeology.
- Karl W. Butzer, D.Sc., Bonn, 1957, Raymond C. Dickson Centennial Professor of Liberal Arts — Cultural Ecology; Applied Geomorphology; Environmental History; Colonial Mexico; Spain; Near East; Australia
- 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
- Francisco L. Pérez, Ph.D., UC-Berkeley, 1985, Professor Mountain Geoecology; Geomorphology; Vegetation Ecology; Soils
- 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
- Leo E. Zonn, Ph.D., Wisconsin-Milwaukee, 1975, Professor Representation and Media, Especially Cinema; Geographies of Popular Culture

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
- Mark Simmons, Ph.D., Texas A&M University, 2003, Lecturer, Restoration Ecologist at the Lady Bird Johnson Wildflower Center — Landscape Ecology
- Bjorn Sletto, Ph.D., Cornell University, Assistant 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
- Frederick Steiner, PhD Pennsylvania, 1986, Professor (Architecture and Geography) and Dean, School of Architecture, Affiliated Faculty — Environmental Impact Assessment; Landscape Analysis and Landscape Architecture 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)

THE UNIVERSITY OF TEXAS AT SAN ANTONIO

DEPARTMENT OF POLITICAL SCIENCE AND GEOGRAPHY

DATE FOUNDED: 1977

- **DEGREES OFFERED:** B.A., M.A. in Geography
- GRANTED: 9/1/13 5/31/14: 19 B.A.; 0 M.A. (program implemented fall 2014)

STUDENTS: 39 majors; 4 minors; 5 Masters

CHAIR: James D. Calder

GEOGRAPHY PROGRAM COORDINATOR: Richard Jones

GRADUATE PROGRAM COORDINATOR: John Morris 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/poliscigeography/. For graduate program, contact Ms. Andrea Aleman, Student Development Specialist, at andrea.aleman@utsa.edu or telephone (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 34 hours of courses in the major. The program specializes in cultural, economic,

political, and physical geography/GIS, 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 social research laboratory with GIS teaching capabilities, and a media studio. 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: http://graduateschool.utsa.edu/future-students/. 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:

- 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
- John Morris, Ph.D., U .of Texas-Austin, 1992, Professor historical and cultural geography, American Southwest, Europe
- Melanie Stine, Ph.D., Texas State U., 2013, Assistant Professor biogeomorphology, geomorphic effects of fire, highland wetlands, mountain geography

ADJUNCT FACULTY:

- Juan Antonio Cebrian, Ph.D., Complutense University of Madrid, Spain, 1983 (summer) — Europe
- Kristine Egan, Ph.D., Texas State U., 2006 physical and human geography, GIS
- Robert Garza, Ph.D., U. of Colorado-Boulder, 1980 physical geography, American Southwest
- Dean Lambert, Ph.D., U. of Texas-Austin, 1992 physical geography, Latin America
- James Vaughan, Ph.D., Texas State U., 2006 urban and physical geography, natural hazards, sustainable urbanism

UTAH

BRIGHAM YOUNG UNIVERSITY

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1955 DEGREES OFFERED: B.S. STUDENTS IN RESIDENCE: 286 Majors CHAIR: Ryan R. Jensen DEPARTMENT ADMINISTRATIVE ASST: Laurie Weisler

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, 690 SWKT, Brigham Young University, Provo, Utah 84602. Telephone (801) 422-3851 Fax (801) 422-0266 Email: geography@byu.edu. Internet: www.geog.byu.edu.

PROGRAMS AND RESEARCH FACILITIES:

The department offers several programs centered around geographic studies and tailored to enable students to work in a variety of careers that involve understanding the spatial aspect of the world and solving practical problems. All Geography programs are composed of the same three areas: (1) a broad knowledge of the geographic nature of the human and natural world; (2) practical skills in the techniques and technologies used to solve geographic problems; and (3) specialized knowledge and skills in a particular expertise including B.S. degrees in Geography: Global Studies; Tourism; Physical Environment; Urban Planning, GIS and Remote Sensing; GeoSpatial Intelligence.

The department has three dedicated Technology Enhanced Classrooms as well as our own computer lab. The computer laboratory contains state-of-the-art UNIX and Windows workstations and software devoted to spatial analysis, statistics, decision making in urban/regional planning, cartography, GIS, photogrammetry and satellite image processing. The workstations are supplemented by peripherals for scanning, digitizing, and large-format plotting. To assist in field mapping, high-accuracy global positioning system equipment is also provided for student use. Students also have access to additional computer labs located in the same building.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

All degree programs in the Department of Geography are open enrollment for current BYU students. However, special limitations apply for teaching majors.

FACULTY:

- Matthew E. Bekker, Ph.D., U. of Iowa, 2002, Associate Professor landscape ecology, biogeography, dendroecology
- Michael J. Clay, Ph.D., U of California, Davis, 2005, Associate Professor — urban planning
- James A. Davis, Ph.D., Arizona State, 1993, Associate Professor urban planning, cultural, tourism
- Jeffrey O. Durrant, Ph.D., University of Hawaii, 2001, Associate Professor — land and water use
- Chad F. Emmett, Ph.D., U. of Chicago, 1991, Associate Professor Middle East, political, cultural
- Perry J. Hardin, Ph.D., U. of Utah, 1989, Professor GIS, remote sensing, quantitative methods
- Ryan Jensen, Ph.D., U. of Florida, 2000, Professor remote sensing, urban environment
- Daniel Olsen, Ph.D., U of Waterloo, 2008, Associate Professor tourism, cultural
- Samuel M. Otterstrom, Ph.D., Louisiana State U., 1997, Professor historical, population, planning,
- Brandon S. Plewe, Ph.D., SUNY at Buffalo, 1997, Associate Professor — GIS, cartography
- J. Matthew Shumway, Ph.D., Indiana, 1991, Professor population, economic, quantitative methods

ADJUNCT:

Ruth Kerry, Ph.D., U of Reading, UK, 2004, Associate Lecturer — soils, precision farming, geostatistical analysis

Jill Knapp, M.S., BYU, 1989, Assistant Lecturer — cultural geography

EMERITI:

Alan H. Grey, Ph.D., U. of Wisconsin, 1966-1997 Thomas K. Hinckley, Ph.D., U. of Western Ontario, 1972-1995 Russell N. Horiuchi, Ph.D., U. of Washington, 1961-1990 Lloyd E. Hudman, Ph.D., Kansas, 1970-2002 Robert L. Layton, Ph.D., Syracuse U., 1954-1989 Richard H. Jackson, Ph.D., Clark, 1970 – 2008

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: J. Ty Redd
- DEPARTMENT ADMINISTRATIVE ASSISTANT: Rhonda Rilev

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/physci/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 10.3 with all extensions, several GPS software packages (Pathfinder, Trimble, etc.) and ERDAS Imagine. 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. Firsttime 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 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, Associate 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.A., M.S., Ph.D.

(Geography); Geographic Information Science M.S. GRANTED 9/13-8/14: 40 Bachelors, 4 Masters, 4 Ph.D., 1

GIS.MS. STUDENTS IN RESIDENCE: 85 Bachelors, 32 Masters, 18 Doctoral

NOT IN RESIDENCE: 0 Bachelors, 1 Masters, 1 Doctoral CHAIR: Andrea Brunelle

DEPARTMENT ADMINISTRATIVE ASST: Lisa Clayton GRADUATE SECRETARY: MaryAnn Golightly

FOR CATALOG AND FURTHER INFORMATION WRITE TO: University of Utah, Department of Geography, 260 S. Central Campus Dr., Room 270, Salt Lake City, Utah, 84112-9155. Telephone (801) 581-8218. Fax (801) 581-8219. Email: maryann.golightly@geog.utah.edu.

World Wide Web: http://www.geog.utah.edu.

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.A., 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. The MSGIS can be completed independently, or with the Geography BS in a five-year combined program. 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 (GeoInt) Certificate is one of only seven 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, web-based mapping, remote sensing and GIScience, including a full range of ESRI products (including full suites of Arc GIS Desktop, ArcGIS Server, ArcGIS Online, ArcPad/ArcGIS Mobile), 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 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 \$16,000 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 Masters program are due in the Geography Department no later than January 10. Ph.D. applications are accepted at anytime 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 http://www.geog.utah.edu/graduateprogram.html.

- 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
- Thomas J. Cova, Ph.D., University of California-Santa Barbara, 1999, Professor — environmental hazards, humanenvironmental systems, emergency management, transportation, and geographic information science
- Philip E. Dennison, Ph.D., California-Santa Barbara, 2003, Professor and Director of Graduate Studies — remote sensing of vegetation, hyperspectral and multispectral remote sensing, wildfire and climate, fire modeling 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, Research 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, geographic visualization, 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., 2006, University of Oregon, 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 — 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 Earthatmosphere processes and trends with emphasis on hydrological processes, regional and global snow cover dynamics
- 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
- Ran Wei, Ph.D., Arizona State University, 2013, Assistant Professor — GIScience, urban and environmental planning, spatial analysis, spatial optimization, high-performance computing, infrastructure and transportation system, land use decision making
- Yehua Dennis Wei, Ph.D., UCLA, 1998, Professor economic/urban geography, regional and sustainable development, globalization and global cities, land use, GIS, spatial analysis, China

AUXILIARY FACULTY:

- Robert T. Argenbright, Ph.D., UC-Berkeley, 1990, Assistant Professor-Lecturer — Russia, historical, political, and urban geography
- Genevieve Atwood, Ph.D., Adjunct Associate Professor regional geography (North America), physical geography, geographic education
- Larry L. Coats, M.S., Adjunct Assistant Professor quaternary sciences
- *Elizabeth Dudley-Murphy, Ph.D., Adjunct Associate Professor* world regional/cultural geography, geography of Latin America, human geography, introduction to GIS
- Steven Farber, Ph.D., McMaster University, 2010, Research Assistant Professor — spatial analysis, urban transportation geography, spatial econometric modeling, urban economic geography, integrated land-use and transportation modeling, activity and time-use analysis, GIS
- Jack Hamilton, Ph.D., Columbus University, 1991, Adjunct Associate Professor — energy, environment and sustainability
- Arthur Hampson, Ph.D., Hawaii, 1980, Professor-Lecturer Historical geography, regional geography, global issues
- Zachary Lundeen, Ph.D., Utah, Research Assistant Professor and Director of Rio Mesa Center — paleoclimatology, paleoecology, water resources
- Harvey J. Miller, Ph.D., Ohio State, 1991, Research Professor GIS, transportation, time geography, mobility science, spatial analysis
- 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., Adjunct Assistant Professor cartography, resource conservation, urban environmental geography
- Bing Xu, Ph.D., UC-Berkeley, 2003, Research Assistant Professor remote sensing and GIS, epidemiology, spatial analysis, spatiotemporal modeling

EMERITUS FACULTY:

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 (offered jointly with Department of Watershed Sciences), M.S. Geography

HEAD: Christopher Lant

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Becky Hirst, Department of Environment and Society, 5215 Old Main Hill, Logan UT 84322-5215. Telephone: (435) 797-1790. Fax: (435) 797-4048. E-Mail: envs.info@usu.edu. Website: http://www.cnr.usu.edu/envs/.

PROGRAMS AND RESEARCH FACILITIES:

The interdepartmental program in Geography is part of the College of Natural Resources. Research centers on relationships between humans and the natural environment, applications of spatial-analytical tools to conservation and land management, and physical processes in watersheds. Undergraduate students in Geography choose from three emphasis areas (described below): Human-Environment Geography, Geographical Analysis, and Physical Geography.

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.

Geographical Analysis assists students in gaining a solid foundation of geographic information analysis skills. Students learn to apply planning tools and approaches to large-scale issues extending beyond city, county, or other jurisdictional boundaries.

Physical Geography focuses on physical processes on a landscape scale. Students gain proficiency in geographic information sciences and are exposed to processes of landscape geomorphology and hydrology. Students completing this emphasis will have strong quantitative and spatial analysis skills, and will gain an understanding of the interactions of the physics, chemistry, and biology inherent in earth ecosystems.

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, PhD, Florida, 2008, Assistant 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 socialecological systems, human dimensions of ecological disturbance and invasion, restoration ecology – mark.brunson@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 humanenvironment geography, vulnerability and adaptation to climate change and natural hazards – peter.howe@usu.edu
- Christopher Lant, PhD, Univ. of Iowa, 1988, Professor and Head water resources management, ecosystem services, environmental policy – chris.lant@usu.edu
- Christopher Monz, PhD, Colorado State, 2001, Associate Professor — recreation ecology, outdoor recreation and wilderness management – chris.monz@usu.edu
- Claudia Radel, PhD, Clark, 2005, Associate Professor international development, political ecology, feminist geography: Latin America, sub-Saharan Africa – claudia.radel@usu.edu
- Charles Romesburg, PhD, Pittsburgh, 1971, Professor environmental decision-making, natural resources research methods and survey sampling, bioethics – charles.romesburg@usu.edu
- Robert Schmidt, PhD, California-Davis, 1986, Associate Professor wildlife policy and human dimensions, wildlife damage management – robert.schmidt@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:

- Patrick Belmont, PhD, Lehigh, 2007, Assistant Professor, Watershed Sciences — watershed hydrology, sediment dynamics, geomorphology, morphodynamics – patrick.belmont@usu.edu
- Thomas Edwards, PhD, Florida, 1987, Professor, Wildland Resources — spatial analysis of biodiversity, landscape ecology, wildlife habitat and vegetation modeling – t.edwards@usu.edu
- 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, Assistant 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
- John (Jack) Schmidt, PhD, Johns Hopkins, 1987, Professor, Watershed Sciences — stream geomorphology – jack.schmidt@usu.edu
- Joseph Wheaton, PhD, Univ. of Southampton, 2008, Assistant Professor, Watershed Sciences — fluvial geomorphology and ecohydraulics – joe.wheaton@usu.edu
- Peter Wilcock, PhD, MIT, 1987, Professor and Department Head, Watershed Sciences — river sedimentation and earth surface processes, fluvial and hillslope geomorphology – peter.wilcock@usu.edu

WEBER STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1933 DEGREES OFFERED: B.S., B.I.S. GRANTED 5/31/12-5/31/13: 22 Bachelors MAJORS: 72 CHAIR: Bryan Dorsey

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Bryan Dorsey, Chair, Department of Geography, Weber State University, Ogden, Utah 84408-1210. Telephone (801) 626-6944. Email: bdorsey@weber.edu.

PROGRAMS AND RESEARCH FACILITIES:

The Bachelor's degree in geography can be earned by following one of ten emphases in systematic geography, geography teaching, geographic technology, urban & regional planning, environmental studies, global studies, Asian studies, Latin American studies, European studies, or American ethnic studies. Many courses in cognate fields may be taken for credit as geography or interdisciplinary electives. Department facilities and resources include a Computer Cartography Laboratory, equipped with ArcGIS 10, remote sensing, and a map library. The department's computer lab consists of networked PCs, laptops, printers, scanners, and projection systems. GPS units and various data collection instruments are used during field course work. Students and faculty utilize numerous software programs in their studies, including ESRI ArcGIS 10, SPSS 17.0, Microsoft Office, and Novell Office suites. Students also have access to the University's many Learning Support Center Labs which also contain ArcGIS 10, SPSS, and the Office software. The department's map collection includes thousands of topographic, geologic, thematic, and specialty maps. The map library is a part of Weber State University's Stewart Library, a U.S. Geological Survey map repository.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Semester system. The bachelor's degree requires 120 total hours. The geography major and the geography teaching major require 36 hours in geography. The geography emphasis within the bachelor of integrated studies program requires 18 hours. Financial aid and scholarships are available through the University, the College of Social Science, and the Department of Geography.

FULL-TIME FACULTY:

- Daniel Bedford, Ph.D., Colorado, 1997, Professor arctic, alpine, climatology, Europe
- Jeremy Bryson, Ph.D., Syracuse, 2010 Assistant Professor environment and society, urban, American West, Asia, city and regional planning
- Bryan Dorsey, Ph.D., Colorado, 1996, Professor environment and society, land use planning, Africa, physical, world regional
- Eric Ewert, Ph.D., Idaho, 2003, Professor economic, American West, urban, cartography, GIS, Latin America
- Alice Mulder, Ph.D., Colorado 2003, Associate Professor physical, world regional, U.S., Canada, gender, environmental issues
- Julie Rich, D.Phil., Oxford, 2003, Associate Professor physical, quaternary, holocene, weather, climate, arid lands, Utah, world regional

PART-TIME AND AFFILIATED FACULTY:

Rick Ford, Ph.D., UCLA, 1997, Professor (Geosciences) geomorphology, quaternary environments, meteorology

- Klaus Gurgel, ABD, Syracuse, 1978, Adjunct Instructor physical, world regional, history of geographic thought, Utah
- Kim Hadfield, M.Ed., Utah State, 1982, Adjunct Instructor physical, world regional, U.S., Canada

- Mike Hernandez, Ph.D., Utah, 2003, Associate Professor (Geosciences) — GIS, remote sensing
- Paul Richards, M.S., Oregon State, 1991, Adjunct Instructor physical, world regional, climatology, economic

VERMONT

MIDDLEBURY COLLEGE

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1800 DEGREES OFFERED: B.A. GRANTED 9/1/13-8/31/14: 18 Bachelors MAJORS: 74 CHAIR: Peter Nelson DEPARTMENT ADMINISTRATIVE ASST: Angela Early

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Peter Nelson, Department of Geography, 276 Bicentennial Way, Middlebury College, Middlebury, Vermont 05753. Telephone (802) 443-3247. Fax (802) 443-2072. E-mail: pbnelson@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, 1993, Professor nationalism and territoriality, German identity, European integration, maps and propaganda, history of geography
- Jeff Howarth, Ph.D., California, Santa Barbara, 2007, Assistant Professor — spatial thinking in problem based learning, instructional design for GIS and cartography, GIS in planning and design
- Anne Kelly Knowles, Ph.D., Wisconsin, 2002, Professor historical geography of North America, historical GIS, history of cartography, American industrialization and immigration, Holocaust geographies, cultural and economic landscapes
- Ronald D. Liebowitz, Ph.D., Columbia, 1985, President and Professor — political geography, Former Soviet Union, population geography
- Tamar Mayer, Ph.D., Wisconsin, 1985, Professor political and cultural geography, nationalism, political landscapes, gender, development, Middle East, Central Asia, Xinjiang

- Kacy McKinney, Ph.D., Washington, 2011, Visiting Assistant Professor — development theory, geographies of food, geographies of youth, agricultural and environmental change, labor, qualitative methods, Brazil, India.
- Peter B. Nelson, Ph.D., Washington, 1999, Professor economic geography, population migration, rural restructuring, urban-rural linkages
- Joshua Rodd, M.P.H., M.S., Ph.D. (ABD), Colorado, 2015, Visiting Assistant Instructor — health and medical geography, political geography, global health biopolitics, geographies of peace and conflict, the African Great Lakes.
- Joseph Holler, Ph.D., SUNY at Buffalo, 2012, GIS Teaching Fellow — geographic information science, social vulnerability and adaptation, development geographies, political ecology
- Jennifer Immich, MGIS, Ph.D., University of Minnesota, 2015, GIS Teaching Fellow — GIS, geographic information science, landscape archaeology, medieval archaeology, historical geography, Ireland.

UNIVERSITY OF VERMONT

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1965 DEGREES OFFERED: B.A. GRANTED 9/1/14-8/31/15: 14 Bachelors STUDENTS IN RESIDENCE: 56 Geography Majors; 30 Geography Minors; 55 Geo-spatial Technologies Minors NOT IN RESIDENCE: N/A CHAIR: Meghan Cope ADMINISTRATIVE OFFICE COORDINATOR: Vibeke Burley

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. Fax (802) 656-3042. E-mail: geography@uvm.edu. World Wide Web 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 40,000 in a metropolitan area of 150,000. 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 collaboration between Geography, Natural Resources, 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 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 culture, space and power, transnationalism and diaspora, urban and cultural geography, political economy and ecology, India and South Asia
- Meghan Cope, Ph.D., University of Colorado, 1995, Professor and Chair — urban social geography, gender, race, children's/youth geographies, social policy, qualitative research, critical and qualitative GIS
- Lesley-Ann Dupigny-Giroux, Ph.D., McGill University, 1996, Professor — physical geography, climatology, remote sensing, GIS, hazards, drought, land-surface interactions, Caribbean, Brazil
- Cheryl Morse, Ph.D., University of British Columbia, 2006, Assistant Professor — cultural geography, rural, environmental studies, youth geographies, Vermont
- T. Harlan Morehouse, ABD, University of Minnesota, Lecturer contemporary environmental thought and practice, naturesociety, 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, Associate Professor — physical geography, biogeography, dendrochronology, paleoclimatology, climate change, isotopes, Arctic
- Beverley 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
- Daniel W. Gade, Ph.D., Wisconsin, 1967, Professor Emeritus political ecology, Western South America
- 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

Canute VanderMeer, Ph.D., Michigan, 1962, Professor Emeritus

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, 2010
- DEGREES OFFERED: B.A. and B.S. in Geography; B.S. in Global and Environmental Change; 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 fully online program beginning Fall 2015)
- GRANTED 9/1/13-8/31/14: 25 Ph.D. in Earth Systems and Geoinformation Sciences, 5 M.S. in Geographic and Cartographic Sciences, 0 M.S. in Earth Systems Sciences, 4 M.S. in Geoinformatics and Geospatial Intelligence, 18 B.A./B.S. in Geography, 5 B.S. in Global and Environmental Change
- MAJORS (2013-2014): 74 Geography; 7 Global and Environmental Change; 50 Geographic and Cartographic Sciences, 32 Geoinformatics and Geospatial Intelligence; 2 Earth Systems Science; 82 Earth Systems and GeoInformation Sciences, 17 Graduate Certificates

CHAIR: Anthony Stefanidis

DEPARTMENT MANAGER: Debbie Hutton

FOR FURTHER INFORMATION: http://ggs.gmu.edu

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and Geoinformation Science (GGS) is part of George Mason University's (GMU) College of Science (COS), and is a designated NGA/USGS Center of Academic Excellence in Geospatial Science. GGS is offering a full array of graduate and undergraduate academic programs in the Washington, DC metropolitan area.

At the undergraduate level, GGS offers B.S. and B.A. degree programs in Geography. The B.S. in Geography provides an extensive range of courses in remote sensing, geographic information systems, and cartography. The B.A. program requires a minor or second major in another field. 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 M.S. and Ph.D. programs. At the Master level, GGS offers the M.S. in Geographic and Cartographic Sciences, and the M.S. in Geoinformatics and Geospatial Intelligence. It also administers the M.S. in Earth Systems Science (offered jointly with the Department of Atmospheric, Oceanic and Earth Science). The Department also offers three graduate certificates in Geographic Information Science, Geospatial Intelligence, and Remote Sensing & Earth Image Processing, to provide focused, employment-oreinted graduate-level training. At the doctorate level, GGS offers a Ph.D. in Earth Systems & GeoInformation Sciences with six core foci: geoinformatics, physical geography, human geography, GIS, quantitative methods, and remote sensing.

Students in our degree programs are pursuing research activities under the supervision of GGS faculty in Geographic Information Science, Remote Sensing, Digital Image and Video Analysis, Human and Physical Geography, Geoinformatics, Geosocial Analysis, Environmental Sciences, and other related areas. The GGS Department has state-of-the-art research facilities to support research and instruction, and is affiliated with a number of research centers: the Center for Earth Observing and Space Research, the Center for Geospatial Intelligence, the Center for Intelligent Spatial Computing for Water/Energy Science, and the *I/UCRC* for Spatiotemporal Thinking, Computing and Applications.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: GMU follows the semester system. Most GMU graduate courses are offered in the evenings. Many of our 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. Many of our Ph.D. graduates follow academic careers. Students with backgrounds in Geography, Earth Systems, one of the physical science disciplines, Engineering, or equivalent can apply for our graduate programs.

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 also available in an online mode beginning Fall 2015. See http://masononline.gmu.edu/programs/geospatialintelligencegraduatec ertificate/.

Master level degrees require 30-36 credit hours of coursework and a Thesis, project, or comprehensive exam. Applicants for the M.S. in Geoinformatics and Geospatial Intelligence (GEOI) program should hold 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.

Applicants for the M.S. in Geographic and Cartographic Sciences (GECA) program should hold 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.

The Ph.D. in Earth Systems and GeoInformation Science (Ph.D. ESGS) has concentrations in six core foci: geoinformatics, physical geography, human geography, GIS, quantitative methods, and remote sensing. The Ph.D. program requires 42 hours beyond the Master degree or 72 hours beyond the baccalaureate degree, plus comprehensive exams and a dissertation. 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. A Presidential Fellowship or a Provost Scholarship may be offered to exceptional PhD applicants meeting a minimum combined math and verbal GRE score of 270/340 along with a GPA of 3.5 or higher on a 4.0 scale.

Detailed information about the GGS Department and requirements for all its degrees may be viewed at: <u>http://catalog.gmu.edu</u>. Information about scholarships and loans is available through the Office of Student Financial Aid. See: <u>http://financialaid.gmu.edu</u>.

FULL-TIME FACULTY:

- Peggy Agouris, Ph.D., The Ohio State University, 1992, Professor and Dean, College of Science (COS), 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, social media analysis, digital image analysis, geospatial/spatiotemporal data modeling, photogrammetry
- Kevin Curtin, Ph.D., University of California Santa Barbara, 2002, Associate Professor and Associate Dean, COS — GIS, transportation, network analysis, location science, Colombia
- Paul Delamater, Ph.D., Michigan State University, 2012, Assistant Professor — health and medical geography
- 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 Wilheims Universitaet Muenster, Germany, 2002, Associate Professor geoinformatics
- 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
- Jonathan Kozar, Ph.D., University of North Carolina at Charlotte, 2012, Term Assistant Professor — geography and urban regional analysis
- Timothy Leslie, Ph.D., Arizona State University, 2007, Associate Professor and Associate Chair — Urban-economic development, spatial statistics, health geography
- Dieter Pfoser, Ph.D., Alborg University, 2000. Associate Professor Spatial and spatiotemporal databases, Graph algorithms shortest-path computation, map matching Crowdsourcing geospatial data, Volunteered Geographic Information
- 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, Assistant Professor — geographic information science, geovisualization
- Anthony Stefanidis, Ph.D., The Ohio State University, 1993, Professor and Chair, Director of Center for Geospatial Intelligence image and video analysis, social media analysis, geospatial intelligence, geo-sensor networks
- Donglian Sun, Ph.D., University of Maryland, College Park, 2003, Associate Professor — remote sensing, algorithm development, numerical modeling simulation
- George E. Taylor, Jr., Ph.D., Emory University, 1976, Professor environmental sciences, ecology, air quality, biogeography
- 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, Associate Professor and co-Director of Center for Intelligent Spatial Computing for Water/Energy Science and Director of I/UCRC for Spatiotemporal Thinking, Computing and Applications — distributed geospatial information processing: architecture and algorithms, interoperability, high performance computing, spatial web portal, geographical object storage systems
- Ruixin Yang, Ph.D., University of Southern California, 1990, Associate Professor — geosciences, data analysis, data mining, data information systems

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

DEPARTMENT OF INTEGRATED SCIENCE AND TECHNOLOGY DATE FOUNDED: 1970 DEGREES OFFERED: B.A., B.S. GRANTED 9/1/13-8/31/14: 66 Bachelors STUDENTS IN RESIDENCE: 176 Majors PROGRAM COORDINATOR: Dr. Mace Bentley DEPARTMENT ADMINISTRATIVE ASST: Cindi Wilson

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Cindi Wilson, Integrated Science and Technology, Geographic Science Program, James Madison University, MSC 4302, Harrisonburg, Virginia 22807. Telephone (540) 568-6199. Fax (540) 568-8741. E-mail: wilsoncf@jmu.edu. Internet: www.gis.jmu.edu

PROGRAMS AND RESEARCH FACILITIES: The mission of the Geographic Science program at JMU is to prepare students to be confident in their abilities as geographers and to equip them with the skills to effectively compete in graduate programs and the job market. These qualities are conveyed to students through the curriculum by our highly qualified and diverse faculty and staff. Geographic Science graduates are prepared for long term success as professionals in the field of geography.

Students in the Geographic Science program select one or both of the following concentrations: Applied Geographic Information Science (AGIS) and/or Environmental Conservation, Sustainability and Development (ECSD). Facilities include three state-of-the-art computer laboratories used for instruction and other teaching-related purposes, and one laboratory for research and applied work by faculty. The computer labs include numerous computers running geography-related software packages including ArcGIS (through an ESRI site license), PCI Geomatica, Trimble Pathfinder Office, eCognition, and SPSS. 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 a large number of 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, PhD., Georgia, 1999, Assistant Professor – meteorology, climatology, and weather-societal interactions

- Thomas Benzing, Ph.D., Michigan, 1993, Professor hydrology and climatology
- Zachary Bortolot, Ph.D., Virginia Tech, 2004, Associate Professor remote sensing and natural resource
- Jennifer Coffman, Ph.D., North Carolina, 2000, Associate Professor — environment, development, political ecology, sociocultural change, East Africa
- Mike Deaton, Ph.D., Virginia Tech, 1980, Professor spatial analysis
- Joy Ferenbaugh, Ph.D., Texas Tech, 2007, Assistant Professor wildlife management and anthropogenics on ecosystems
- Amy Goodall, Ph.D., Nebraska-Lincoln, 1999, Associate Professor biogeography
- Robert Kolvoord, Ph.D., Cornell, 1990, Professor environmental GIS
- Helmut Kraenzle, Ph.D., Ludwig-Maximilians University of Munich, 1991, Professor—GIS and spatial databases
- David McGraw, JD, Georgetown, 1997, Professor political geography

Carole Nash, Ph.D., Catholic University 2009, Associate Professor — cultural ecology, landscape and culture, and field studies

Maria Papadakis, Ph.D., Indiana, 1991, Professor — population geography, energy and environment, and economic development

- Mary Tacy, Ph.D., Georgia, 1991, Professor climatology, humanitarian affairs and the Caribbean
- Wayne Teel, Ph.D., Cornell, 1994, Professor geography of Africa and sustainability
- Henry Way, Ph.D., Kansas, 2008, Associate Professor cultural, urban and political geography

EMERITI FACULTY

- Joseph Enedy, 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

- DEGREES OFFERED: B.A., B.S. in Geography; M.A. in Humanities (concentration in Human Geography)
- DEGREES GRANTED: 6/1/14-5/31/15: 20 Bachelors; 2 Masters

STUDENTS IN RESIDENCE: 70 Bachelors; 4 Masters GEOGRAPHY PROGRAM DIRECTOR: Jonathan Leib DEPARTMENT ADMINISTRATIVE ASSISTANT: LaTava Divan

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 Director of Geography, 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 Spatial Analysis of Coastal Environments. All of these concentrations support the University's mission to excel in areas that are appropriate to the opportunities afforded by its location in the heart of greater Hampton Roads, a major metropolitan area at the mouth of the Chesapeake Bay and one of the nation's leading ports.

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.

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
- Peter Anderson, Ph.D., Utah, 1994, Lecturer physical, biogeography, ecology
- Thomas Chapman, Ph.D., Florida State, 2007, Associate Professor cultural, urban, political, social justice, GIS
- *Timothy Kidd, M.S., Alabama, 2002, Lecturer* political, cultural, ethnic minorities, Europe
- Jonathan Leib, Ph.D., Syracuse, 1992, Associate Professor and Program Director — political, American South, 'race' and ethnicity, cultural
- Hua Liu, Ph.D., Indiana State, 2007, Associate Professor GIS, remote sensing, urban environmental changes
- Donald Zeigler, Ph.D., Michigan State, 1980, Professor political, urban, marine, Middle East

ASSOCIATED FACULTY:

- Sherry DiBari, M.A., Ohio, 2011, Adjunct Instructor historical, cultural
- Christine Drake, Ph.D., Rutgers, 1977, Professor Emerita Asia, Africa, cultural, world resources
- Justin Friberg, Ph.D., Syracuse, 1977, Associate Professor Emeritus — Latin America
- Lyle Hornbaker, M.R.C.P., Kansas State, 1996, Adjunct Instructor GIS, remote sensing
- Georgeanne Hribar, Ed. D., Nova Southeastern, 2005, Adjunct Assistant Professor — Europe, Russia, cultural
- Heather Jersild, M.S., UC-Davis, 1989, Adjunct Instructor environmental, cultural
- George McLeod, M.S., Old Dominion, 2009, Adjunct Instructor Geospatial Technologies
- Valerie Mervine, M.A.S., Arizona State, 2009, Adjunct Instructor human geography, U.S. and Canada

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 9/1/13-8/31/14: 20 B.A., 15 Certificates in GISc MAJORS: 92

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 students. The Geography Department offers a new masters of science in Geospatial Analysis (MSGA) and two undergraduate programs: a major in Geography and a Certificate in GISc. The MSGA program is designed for professionals and fouryear college graduates who have successfully completed at least two GIS-related courses. The program emphasizes spatial thinking, webbased GIS, image analysis, and statistical modeling.

The geography major has three areas of emphasis: 1) Community, Development, and Culture; 2) Nature and Society; and 3) Globalization. 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 International Affairs, American Studies, Environmental Science, Urban Studies, and the Middle Eastern Studies program. 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 education, 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 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. The MSGA is a 30-credit, 12 month program culminating in a capstone project completed either through an independent project or internship. 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. 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.

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
- 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
- Donald N. Rallis, Ph.D., Pennsylvania State University, 1992, Professor Emeritus — Africa, Australia and New Zealand, East and Southeast Asia, urban geography
- 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 GISscience, spatial epidemiology, web-based GIS.

UNIVERSITY OF RICHMOND

DEPARTMENT OF GEOGRAPHY AND THE ENVIRONMENT DATE FOUNDED: 2008 DEGREES OFFERED: B.A. CHAIR: Todd Lookingbill DEPARTMENT ADMINISTRATIVE ASST: Nancy Propst

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Todd Lookingbill, Department of Geography and the Environment, University of Richmond, #311 Carole Weinstein International Center, Richmond, Virginia 23173. Telephone (804) 289-8265. Fax (804) 484-1577. E-mail: tlooking@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 Geographic 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 Klinker, 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 and Chair — 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 — conservation and development, political ecology, Amazonia, borderlands, cartography

WASHINGTON

CENTRAL WASHINGTON UNIVERSITY

DEPARTMENT OF GEOGRAPHY FOUNDED: 1935 GRADUATE PROGRAM FOUNDED: 1983 DEGREES OFFERED: B.A., B.S., M.S. GRANTED 9/01/13 - 8/31/14: 25 Bachelors, 7 Masters STUDENTS IN RESIDENCE: 68 majors, 45 Masters NOT IN RESIDENCE: 36 Masters INTERIM CHAIR: John Bowen DEPARTMENT SECRETARY: Monica Reece-Bruya

FOR CATALOG AND FURTHER INFORMATION WRITE TO: John Bowen, Interim 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 major. 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 wellappointed 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 departments that support an interdisciplinary M.S. in Resource Management 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 grade average of B or higher, GRE scores above the 45th percentile, and solid academic background in a technical field, of which geography is but one possibility, and academic recommendations. 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, Professor and Interim Dean of Graduate Studies — social construction/production of nature, globalization
- John T. Bowen, Jr., Ph.D., University of Kentucky, 1993, Associate Professor and Interim Chair — economic geography, air transport systems, logistics, Southeast Asia
- Elvin Delgado, Ph.D., Syracuse University, 2012, Assistant Professor — political ecology, energy and capitalism, critical resource geography
- Anthony O. Gabriel, Ph.D., University of Guelph, 1993, Professor and Graduate Co-Director — physical geography, biogeography, coastal environments, wetlands
- 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, Assistant Professor — arid lands, field methods, water resources, American Southwest

- 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

ADJUNCT FACULTY:

- Holly A. English, M.S., University of Denver physical geography, environmental studies, energy resources
- Elaine K. Glenn, M.S., Brigham Young University world regional geography, political geography, Russia

EMERITI FACULTY:

- James E. Brooks, Ph.D., University of Washington, 1957 physical geography, international trade, growth management
- 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
- George Macinko, Ph.D., University of Michigan, 1961 environmental studies, land use, resource geography
- 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., Science Instructional Technician III Monica Reece-Bruya, Secretary Senior Craig Scrivner, Ph.D., Computer System, Network Administrator

EASTERN WASHINGTON UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND ANTHROPOLOGY DATE FOUNDED: 1955 DEGREES OFFERED: B.A. GRANTED 07/01/012-06/30/13: 11 Bachelors MAJORS: 48 CHAIR: Robert Sauders DEPARTMENT ADMINISTRATIVE ASST: LeAnn Knoles

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Stacy Warren, Program Director, Department of Geography and Anthropology, 103 Isle Hall, Eastern Washington University, Cheney, Washington 99004-2417. Telephone (509) 359-7962 or 359-2433. Fax (509) 359-2474. Internet: www.ewu.edu.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and Anthropology at Eastern Washington University is a small yet dynamic program located in the heart of the Intermountain Northwest, with campuses in Cheney and Spokane. The proximity to the Northern Rocky Mountains, Columbia Basin, Channeled Scablands, the Palouse, southern British Columbia and Alberta, and the Greater Spokane metropolitan region provides an ideal laboratory for both physical and human geography. The main campus is at

Cheney, a farming and ranching town of 10,000 located sixteen miles southwest of Spokane. There is also a downtown Spokane facility: the Riverpoint Campus complex, shared with Washington State University.

The EWU undergraduate program seeks to cultivate geographic literacy as an indispensable element of a liberal arts education. Additionally, the broad range of course offerings is designed for students seeking professional careers in environmental fields or going on to graduate study. Areas of current faculty interest include geomorphology, climatology, alpine-glacial landscapes, wetlands, critical GIS, geography of children, popular culture theory, environmental studies, urban and political geography, rural geography, and regional specialty offerings on the Middle East, Latin America and North America. Many courses are cross-listed, and Geography works closely with the Anthropology, History, Geology, International Affairs, Urban and Regional Planning, Computer Science, Biology and Education. We offer certificates in GIS and Wetland Studies. There is a strong emphasis on fieldwork in both physical and human geography which, combined with the small size of the campus and faculty, facilitates interaction between faculty and students. Geography majors are encouraged to participate in an active internship program to gain practical employment skills before graduation.

Geography, along with the affiliated programs of Anthropology, Archaeological & Historical Services occupies Isle Hall at the Cheney campus. The Geography Map Library contains a 200,000-sheet collection, making it one of the largest in the Inland Northwest. The department has a fully-equipped Geographic Information Systems Laboratory; EWU participates in the statewide ESRI site license, giving students and faculty full access to ArcGIS and other ESRI products. The department also houses and administers a campus weather station, a soils lab, and a GIS server.

ACADEMIC PLAN, ADMISSION 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 — urban, political, natural resource management, critical social and spatial theory
- Anna Dvorak, Ph.D., UCLA, 2013, Assistant Professor geographic information systems, physical geography, wetlands GIS, Latin America, social & behavioral theory
- Michael M. Folsom, Ph.D., Michigan State University, 1971, Professor — biogeography, soils, geomorphology, wetlands, regional geography, Third World development
- Robert Quinn, Ph.D., Oregon State University, 1976, Professor climatology, meteorology, hydrology, wetlands Robert Sauders, Ph.D. American University, 2007, Associate
- Robert Sauders, Ph.D. American University, 2007, Associate Professor — political, cultural heritage and anthropological studies, Middle East, Palestine, cultural studies. [Joint Appointment with Anthropology]
- Stacy Warren, Ph.D., University of British Columbia, 1994, Professor — cultural and urban, critical GIS, Disney studies, popular culture theory, geography of children

AFFILIATED FACULTY:

- Fred A. Hurand, Ph.D., FAICP, Pennsylvania State University, 1979, Professor — urban and environmental design, behavioral analysis
- William J. Kelley, M.U.R.P, Texas A & M University, 1974, Professor — transportation planning, land use planning, planning methods, hazards planning
- Dick G. Winchell, Ph.D., AICP, Arizona State University, 1982, Professor — community development, land use planning, tribal planning, small town planning, strategic planning, community management and administration

SKAGIT VALLEY COLLEGE

DEPARTMENT OF ENVIRONMENTAL CONSERVATION CERTIFICATE OFFERED: Geographic Information Systems (GIS)

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Shawna M. Blue Program Assistant for the Department of Environmental Conservation 2405 E. College Way Mt. Vernon, WA 98273 E-mail: Shawna.blue@skagit.edu Telephone: (360) 416-7817

PROGRAMS AND RESEARCH FACILITIES:

Geographic Information Systems (GIS): The Geographic Information Systems (GIS) classes are designed to provide students with software knowledge to manage information or attributes that have a geographic reference point attached. Different attributes and types of information can be displayed as maps. This allows analyzing data with respect to its spatial relationships. Geographic Information Systems are software and hardware that electronically manage these spatial analysis in forestry, fish and wildlife, population studies, landuse planning, marketing, and other fields that involve the integration of information and geography. Advanced uses integrate GPS data management with mapping and displaying software.

GIS software is used by real estate agents, city and county administrations, natural resource managers, fish and wildlife managers, sales analysts, utility companies, and environmental managers.

A certificate in Geographic Information Systems (19 credits) is granted upon completion of the following requirements with 2.0 GPA or above: GIS 101, 102, 105, 106, and 203. GIS courses must be taken in this sequence.

COURSE DESCRIPTIONS:

GIS 101 Introduction to Geographic Information Systems (5)

Principles and conceptual overview of GIS software, its use and applications in natural resource management with hands-on experience using Arcview. Computer and spreadsheet familiarity necessary.

GIS 102 Geographic Information Systems II (5)

Continuation of GIS 101. GIS application in natural resource management. Includes data creation by digitizing, coordinating management, map projections and map aesthetics using ArcGIS software. Prerequisite: GIS 101.

GIS 105 Introduction to Global Positioning Systems (GPS) (2)

Introduction to global positioning systems (GPS) and their use in natural resources and agriculture.

GIS 106 Advanced Global Positioning Systems (2)

Continuation of GIS 105. Global Positioning Systems (GPS) data management. Integration of GPS data into mapping software and displaying with Google Earth and ArcGIS. Prerequisite: GIS 105 or concurrent enrollment, or department chair approval.

GIS 202 Introduction to Remote Sensing (5)

Principles and conceptual overview of remote sensing instruments and how data and images are used to monitor and evaluate the condition and distribution of the earth's surface features. Prerequisite: GIS 101.

GIS 203 Advanced GIS Project (5)

Using ArcGIS, create individual GIS projects from inter-tidal marine habitat data or other pre-approved data sets. Covers formulating a research question for analysis, conducting background research, map development and layout, and presenting the results in a research paper. Prerequisite: GIS 102.

UNIVERSITY OF WASHINGTON

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1935 GRADUATE PROGRAM FOUNDED: 1935 DEGREES OFFERED: B.A., M.A., M.GIS, Ph.D. GRANTED 10/1/13-9/1/14: 89 Bachelors, 26 masters, 6 Ph.D. STUDENTS IN RESIDENCE: 185 Majors, 46 Masters, 28 Ph.D. NOT IN RESIDENCE: 4 Masters, 6 Ph.D. CHAIR: Lucy Jarosz DEPARTMENT ADMINISTRATOR: Sharon Frucci

FURTHER INFORMATION **CONTACT:** Director FOR of Counseling and 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. Comprehensive information on the department is available at: http:// depts.washington.edu/geog/. Information about our Professional Master's Program in Geographic information Systems and Sustainability Management is available through the website, http://www.outreach.washington.edu/pmpgis

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 specialties. 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, Russia, 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 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, Russia, and 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, Washing ton 98195).

Graduate: Quarter system. The departmental curriculum is flexible, and programs of study are individually arranged to suit the needs of the students. There are two options in the M.A. program: 1) Thesis option: thesis may be devoted to a single topic or may be composed of several high quality research papers; 2) Two-paper option: Students submit two publishable papers on related topics. Admission 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: http://depts.washington.edu/geog/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, visuality, 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 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 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
- Katharyne Mitchell, Ph.D., UC, Berkeley, 1993, Professor urban, comparative studies of migration, education and philosophies of immigrant education, social theory, Europe and Pacific Rim
- 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, humancomputer interaction and spatial cognition
- Matthew Sparke, Ph.D., British Columbia, 1996, Professor, Jackson School of International Studies, Adjunct Professor, Global Health — globalization, global health, political and economic geography, social theory including post-colonial, Marxist, feminist and anti-racist theory

- 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:

- 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
- 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
- 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

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, optional Geography emphasis MAJORS: 51 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. Department Fax (360) 650-7702 Internet: https://huxley.wwu.edu/environmental-studies

PROGRAMS:

UNDERGRADUATE: The Geography B.A. program is primarily an upper division major. Students spend their first two years completing General University Requirements, and Huxley College of the Environment core courses. Geography majors then take a common set of core classes that provide background skills and concepts, and choose their specialization through selection of elective courses.

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, Associate Professor physical and environmental geography, glacial and soils geomorphology, climate change and quaternary history, geoarcheology.
- 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
- Aquila Flower, Ph.D., University of Oregon, 2013, Assistant Professor — climatic variability, human land use patterns, natural disturbances in shaping forest ecosystem dynamics
- Stefan Freelan, M.S., Western Washington University, 2003, GIS Specialist
- Nabil Kamel, Ph.D., University of California, Los Angeles, 2004, Assistant Professor — social and environmental justice, postdisaster recovery, political economy of urbanization, sustainable development, critical urban theory, housing and poverty, physical planning, urban design, regional and international development
- 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 Assistant Professor — science/policy interface, environmental science and decisionmaking, 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 Assistant 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, humanenvironment 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
- Wendy Walker, M.S., Florida State, 1976, Senior Instructor education, interpretation, curriculum
- Grace Wang, Ph.D., University of Minnesota 1997, Associate Professor — natural resource policy, multicultural perspectives, resource management
- Thomas Webler, Ph.D., Clark University 1992 Assistant Professor civic dialogue about problems of energy, sustainability, and climate change, focuses on bringing local and expert knowledge together in collaborative, democratic ways to produce innovative solutions to controversial problems of collective action.
- Nicholas Zaferatos, Ph.D., Washington, 1996, Professor environmental planning, tribal planning

WEST VIRGINIA

CONCORD UNIVERSITY

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1955 DEGREES OFFERED: B.A. Geography GRANTED 9/1/13-8/31/14: 16 Bachelors MAJORS: 40 CHAIR: Joseph T. Manzo DEPARTMENT ADMINISTRATIVE ASST: Donna L. Roberts

FOR CATALOGANDFURTHERINFORMATIONWRITETO: TomSaladyga,DepartmentofGeography, ConcordUniversity, Athens, WestVirginia 24712-1000.Telephone(304)384-6040.Fax(304)384-6091.E-mail:saladygat@concord.edu.Internet: http://hub.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 Arts degree in Geography. 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. 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.

FACULTY:

- Joseph T. Manzo, Ph.D., Kansas, 1978 Cultural/Historical, 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., Concord University, 2011

- 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., AND M.S. GEOGRAPHY CHAIR: Joshua Hagen DEPARTMENT ADMINISTRATIVE SECRETARY SENIOR: Amy Saxton

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Joshua Hagen, Chair, Department of Geography, Marshall University, Harris Hall 205, One John Marshall Drive, Huntington, WV 25755. Telephone: (304) 696-2505. Email: hagenj@marshall.edu or 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. Students who choose the B.S. and M.S. tracks focus on a science-based curriculum involving physical geography, GIS, and environmental science. Students who enroll in the B.A. and M.A. tracks concentrate on a sequence of courses in human geography, physical geography, GIS, and environmental science. 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 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 some of the Earth's most 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 as well as undergraduate students may participate in faculty research projects.

FACULTY:

- Godwin Djietror, Ph.D., McMaster University, 2003 Economic and Medical Geography
- Joshua Hagen, Ph.D., University of Wisconsin-Madison, 2003 Political Geography, Geography of Europe
- Kevin Law, Ph.D., The Ohio State University, 2006 Atmospheric Science
- James M Leonard, Ph.D., University of Cincinnati, 2001 Economic/Industrial Geography, GIS, Historical Geography
- Anita Walz, Ph.D., University of Maryland, 2002 Environmental Studies, GIS

WISCONSIN

UNIVERSITY OF WISCONSIN-EAU CLAIRE

DEPARTMENT OF GEOGRAPHY AND ANTHROPOLOGY DATE FOUNDED: 1947 DEGREES OFFERED: B.A., B.S., GRANTED 9/13-5/14: 34 Bachelors MAJORS: 128 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.

Internet: www.uwec.edu/geography/index.htm.

PROGRAMS AND RESEARCH FACILITIES: The University of Wisconsin-Eau Claire is the largest undergraduate campus in the state with 11,000 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, and two comprehensive geography majors (environmental and international), and a geospatial certificate program. 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 also offers a liberal arts minor in Anthropology 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. The department is fully networked and has a full suite of ESRI GIS 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 newly established Simpson fund provides additional support for programming, professional development, research, high-impact practices and student engagement.

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 projects.

FULL AND PART-TIME FACULTY:

- Ari Anand, Ph.D., Arizona, 2008, Assistant Professor cultural anthropology, language in culture and society, religion, social theory
- Robert Barth, Ph.D., Illinois, 1982, Associate Professor physical anthropology, archaeology, prehistory of northeastern U.S.
- Jeff DeGrave, ABD, current, University of Minnesota, Lecturer human, Latin America, Russia and Eastern Europe
- Douglas Faulkner, Ph.D., Wisconsin, 1994, Associate Professor environmental, physical, geomorphology, fluvial
- Sean Hartnett, Ph.D., Wisconsin, 1989, Professor cartography, computer graphics, historical
- Christina Hupy, Ph.D., Michigan State, 2006, Associate Professor biogeography, GIS, remote sensing
- Joseph Hupy, Ph.D., Michigan State, 2005, Associate Professor physical, military geography, human-environment
- Harry Jol, Ph.D., University of Calgary, 1993, Professor geomorphology, physical, geoarchaeology, ground penetrating radar, coastal
- Paul Kaldjian, Ph.D., Arizona, 2000, Associate Professor human, food, Middle East and North Africa
- Garry Running, Ph.D., Wisconsin, 1997, Professor geomorphology, soils, physical, environmental
- B. Jill Smith, Ph.D., Wisconsin, 1983, Senior Lecturer cultural anthropology
- 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, Assistant Professor human, quantitative methods, urban, economic, political, conservation
- Cyril Wilson, Ph.D., Indiana State, 2011, Assistant Professor human-environment, agent-based modeling, geospatial hydrology, remote sensing, land use and land cover dynamics, GIS
- Ezra Zeitler, Ph.D., Nebraska, 2008, Associate Professor human, North America, Wisconsin, indigenous, race and ethnicity, tourism, geographic education

UNIVERSITY OF WISCONSIN-LA CROSSE

DEPARTMENT OF GEOGRAPHY AND EARTH

SCIENCE DATE FOUNDED: 1909

DEGREES OFFERED: B.A., B.S. in Geography (Concentrations in GIS and Environmental Science). Minors in Geography, Earth Science, Geoarchaeology, and GIS GRANTED 8/1/13-5/31/14: Bachelors 22 MAJORS: 75

CHAIR: Cynthia Berlin

DEPARTMENT ADMINISTRATIVE

ASSISTANT: Karen Ott

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Department of Geography and Earth Science, UW-La Crosse, La Crosse, Wisconsin 54601. Telephone (608) 785-8333, Fax (608) 785-8332.

Email: geoearth@uwlax.edu Website: http://www.uwlax.edu/geograp hy

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and Earth Science at the University of Wisconsin - La Crosse is dedicated to advancing the academic knowledge of students through teaching and scholarship within established paradigms of cultural and physical geography, and through the acquisition of techniques for studying local, regional and global geographic phenomena. The department is dedicated to the integration of technology into the full scope of the curriculum, to providing handson student-oriented learning and to giving each student meaningful research and field experiences. The department provides its students with the intellectual foundation and acquisition of skills for success in both post-graduation employment and graduate study. It has wellequipped physical geography laboratories and a soil laboratory. Two GIS laboratories provide space, equipment, and a broad range of software programs for instruction in cartography, remote sensing, GIS, and field methods. Our internship program places students with various local, state, and federal government agencies which include the National Weather Service, the Mississippi River Regional Planning Commission, and the USGS Upper Midwest Environmental Science Center.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Semester system. An application for admission and financial aid information may be obtained on-line at www.uwlax.edu or by writing to the Admissions Office or Financial Aid Office, University of Wisconsin – La Crosse, 1725 State Street, La Crosse, Wisconsin 54601.

- Colin Belby, Ph.D., University of Wisconsin-Madison, 2009, Assistant Professor — Water Resources, Fluvial Geomorphology, Upper Mississippi River
- Cynthia Berlin, Ph.D., Indiana State, 1998, Professor Remote Sensing, Conservation, Climate
- Joan Bunbury, Ph.D., University of Ottawa, 2009, Assistant Professor — Paleoclimatology, Biogeography, and Freshwater Environments
- Gargi Chaudhuri, Ph.D., University of California-Santa Barbara, 2011, Assistant Professor — GIS, Land Use Cover Change, Transportation
- Georges Cravins, Ph.D., Clark, 1988, Professor Global Strategic Study, Economic Development and Geography, World Cultures, Populations

- Niti Mishra, Ph.D., University of Texas at Austin, 2014, Assistant Professor — GIS, Cartography, Geovisulaization, Remote Sensing
- Paul Reyerson, Ph.D., University of Wisconsin-Madison, 2012, Assistant Professor — Geomorphology, Soil Science
- Daniel Sambu, Ph.D., University of Oklahoma, 2011, Assistant Professor — Geographic Education, Environments, World Cultures, Water Resources

EMERITUS:

Rafique Ahmed, Ph.D., Ohio State, 1985, Professor — Climate, South Asia, Conservation, Environments

Mehmet Aritan, Ph.D., Kentucky, 1983, Assistant Professor Emeritus

Gregory Chu, Ph.D., Hawaii, 1986, Professor Emeritus

John Hoefer, M.S., Wisconsin, 1959, Assistant Professor Emeritus

Virgil Holder, Ph.D., Minnesota, 1976, Professor Emeritus

Paul Stoelting, Ph.D., UW-Milwaukee, 1978, Associate Professor Emeritus

Dean Wilder, Ph.D., Colorado, 1977, Professor Emeritus

Robert Wingate, Ph.D., Minnesota, 1975, Professor Emeritus

UNIVERSITY OF WISCONSIN-MILWAUKEE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1956

GRADUATE PROGRAM FOUNDED: 1963

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

- M.A./M.L.I.S. Degree in Geography and Information Science, Ph.D.
- GRANTED 9/1/13-8/31/14: 17 Bachelors, 6 Masters, 3 Ph.D.
- STUDENTS IN RESIDENCE: 50 Majors, 8 Masters, 18 Ph.D.
- CHAIR: Changshan Wu cswu@uwm.edu

DEPARTMENT ADMINISTRATIVE ASSTS: Rachel Friedl (friedl@uwm.edu) and 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: cswu@uwm.edu. Internet: www.geography.uwm.edu.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers bachelors, 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 independently administered 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 Center for Women's Studies, the Institute for Survey and Policy Research, 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 Bachelors degree is required for admission to the Masters program; a Masters 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. Specific course requirements for both the Masters and PhD can be obtained from the department. The minimum degree requirements for the Masters 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 (33 to 50% appointments), 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. Masters 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, Assistant 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, plantclimate interactions, climate change

- Kristin Sziarto, Ph.D., Minnesota, 2007, Associate Professor social movements and spatiality, political geography, population geography
- Changshan Wu, Ph.D., Ohio State, 2003, Professor and Chair GIS, remote sensing, spatial analysis methods, urban, transportation
- Zengwang Xu, Ph.D., Texas A&M, 2007, Assistant 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:

Barbara Borowiecki, Ph.D., Wisconsin, 1962, Professor Emerita

Michael Day, D. Phil., Oxford, 1978, Professor Emeritus

Donn Haglund, Ph.D., Pennsylvania, 1958, Professor Emeritus

Ludwig Holzner, Dr. rer. nat., Wurzburg, 1964, Professor Emeritus

Judith Kenny, Ph.D., Syracuse, 1990, Associate Professor Emerita

Harold Rose, Ph.D., Ohio State, 1960, Distinguished Professor Emeritus

Norman Stewart, Ph.D., UCLA, 1963, Associate Professor Emeritus

UNIVERSITY OF WISCONSIN-OSHKOSH

DEPARTMENT OF GEOGRAPHY & URBAN PLANNING

DATE FOUNDED: 1928 DEGREES OFFERED: B.A., B.S. GRANTED 9/1/12-8/31/13: 21 Bachelors MAJORS: 58 CHAIR: Colin J. Long DEPARTMENT ADMINISTRATIVE ASST: Kristy Burg

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:http://www.uwosh.edu/geography

PROGRAMS AND RESEARCH FACILITIES: The University of Wisconsin Oshkosh has an enrollment of 13,900 students with 640 Faculty and instructional staff located on the banks of the Fox River near Lake Winnebago in southeastern Wisconsin. The Department of Geography and Urban Planning offers a Bachelor of Science and Bachelor of Art degree in geography as well as a minor in geography and a minor in geography for education majors. 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 Systems 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, Adobe Illustrator and other software. Students can earn a GIS certificate with the completion of 12 credits of GIS classes and an additional 6 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 48 credit hours, 27 of which are required courses. The remaining 21 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, Associate 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, Assistant Professor — soils and stratigraphy, water resources, geomorphology, paleoclimate
- Mamadou Y. S. Coulibaly, Ph.D., Southern Illinois University, 2006, Associate Professor — Geographic Information Systems, 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, Associate Professor — physical, biogeography, paleoecology, quaternary environments
- Edward V. Miller, Ph.D., University of Illinois at Chicago, 2011, Assistant Professor, Director of Urban Planning program suburbs and exurbs, gentrification, public participation GIS, urban historical geography, public-private partnership
- Kazimierz J. Zaniewski, Ph.D., University of Wisconsin-Milwaukee, 1987, Professor — cartography, population, ethnicity, Europe

ACADEMIC STAFF:

Laura Carnahan, M.S., University of Wisconsin-Milwaukee, 2009, Lecturer — physical geography, atmospheric sciences

UNIVERSITY OF WISCONSIN-PLATTEVILLE

DEPARTMENT OF GEOGRAPHY AND GEOLOGY DATE FOUNDED: 1959 DEGREES OFFERED: B.A., B.S. GRANTED 1/1/14-12/31/14: 7 Bachelors MAJORS: 25 CHAIR: Melissa Gormley DEPARTMENT ADMINISTRATIVE ASST: Marsha

Weaver

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Geography/Geology, 1 University Plaza, Platteville, Wisconsin 53818. Telephone (608) 342-6060. Internet: www3.uwplatt.edu/geography.

PROGRAMS AND RESEARCH FACILITIES: The University of Wisconsin-Platteville is an institution of 8000 students and 400 faculty located in the Driftless Area in southwestern Wisconsin. The Geography Program offers a liberal arts degree, designed to prepare students for graduate training and careers as professional geographers. In addition, minor programs in geography and environmental science are also offered.

In both cultural and physical instruction, the program has two primary emphases: field study and undergraduate research. Field study programs range spatially from local to international, and include annual trips to Japan. The geography program maintains a wellequipped GIS/Cartography lab. In addition, we maintain the TREES Lab (Tree Ring, Earth, and Environmental Science Lab), which is fully equipped to support a wide range of research in physical geography, with an emphasis on soil geomorphology, dendrochronology, and biogeography. The TREES Lab is designed to encourage and support research projects by undergraduates, and is funded primarily through external grants. Additional information about the TREES Lab can be found at http://www3.uwplatt.edu/trees. Other physical geography teaching laboratories are well equipped with rock and mineral samples, stream tables and meteorological equipment. The Luther Zellmer Map Library contains a strong collection of a wide assortment of both traditional and digital atlases, maps, and aerial and remote imagery.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Contact the Office of Admissions, University of Wisconsin-Platteville, Platteville, Wisconsin 53818 (608-342-1125) for admission requirements. Financial aid information may be obtained from the Office of Financial Aid, University of Wisconsin-Platteville, Platteville, Wisconsin 53818 (608-342-1836).

FACULTY:

- Christopher Bocast, PhD, Wisconsin, 2013, Instructor world regional geography, freshwater acoustic ecology
- L. Lynnette Dornak, PhD, Kansas, 2012, Assistant Professor biogeography, GIS
- Melissa Gormley, PhD, California-Davis, 2006, Associate Professor — Latin America
- Lane Johnson, MS, Minnesota, 2013, Research Associate biogeography
- Evan Larson, Ph.D., Minnesota, 2009, Associate Professor biogeography, dendrochronology, conservation
- H. Todd Stradford, Ph.D., Oklahoma, 1994, Associate Professor rural geography, physical geography, remote sensing, geographic information systems, China, Japan
- Christopher Underwood, Ph.D., Tennessee, 2013, Assistant Professor — biogeography, charcoal and pollen analysis, environmental geography
- James Valiga, MS, 1987, Wisconsin, Instructor physical geography, remote sensing
- Mari A. Vice, Ph.D., Southern Illinois, 1993, Associate Professor carbonate petrology, stratigraphy
- Richard A. Waugh, Ph.D., Wisconsin-Madison, 1995, Professor cultural geography, environmental geography, Latin America, National Parks
- Thomas Wilding, M.S., Arizona, 2015, Instructor physical geography, dendrochronology

ADJUNCT FACULTY:

Isbister, Dong, Ph.D., Ohio State, 2009, Assistant Professor — gender geography

UNIVERSITY OF WISCONSIN-RIVER FALLS

DEPARTMENT OF GEOGRAPHY AND MAPPING SCIENCES DATE FOUNDED: 1966 DEGREES OFFERED: B.A., B.S. GRANTED 9/1/11-8/31/12:12 Bachelors MAJORS: 35 CHAIR: John Heppen DEPARTMENT ADMINISTRATIVE ASST: Connie Simpson

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: john.heppen@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 37 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 on fieldwork and 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 2007. Equipment and software include 24 XP workstations, a Sun file server on a SAN network, large and small format color printers, scanners, ArcGIS, Arcview, Idrisi, Adobe Creative Suite, 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:

- Ruth Baker, Ph.D. candidate, University of Minnesota, 2012, Assistant Professor
- Mathew Dooley, Ph.D., University of Nebraska, 2006, Associate Professor — cartography, geographic information systems, landscape analysis
- John Heppen, Ph.D., Louisiana State University, 1998, Professor political, historical, social, spatial analysis, United States
- Charles Rader, Ph.D., Michigan State, 1995, Professor geographic information systems, cartography, people/environment, Africa

UNIVERSITY OF WISCONSIN-STEVENS POINT

DEPARTMENT OF GEOGRAPHY AND GEOLOGY DATE FOUNDED: 1950 DEGREES OFFERED: B.S. GRANTED: 9/1/13-8/31/14: 32 Bachelors MAJORS: 108 CHAIR: David Ozsvath ACADEMIC DEPARTMENT ASSOCIATE: Mary Clare Sorenson

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Department of Geography and Geology, University of Wisconsin-Stevens Point, Wisconsin 54481. Telephone 715-346-2629. Fax 715-346-3372. E-mail: geoggeol@uwsp.edu. Internet: www.uwsp.edu/geo/.

PROGRAMS AND RESEARCH FACILITIES: Students can major in either geography or geoscience and may select from minors in earth science, geology, environmental geography, or GIS and spatial analysis. The GIS and spatial analysis minor provides students in related disciplines a strong background in geographic-based techniques. Qualified seniors are encouraged to culminate their degree activities with an internship. Cooperative agreements with both local and state agencies provide intern opportunities for majors. An affiliated GIS Center affords students applied research opportunities and assistantships.

The department maintains several special facilities. Large GIS, remote sensing, and cartographic laboratories house an extensive array of contemporary equipment, including fifty workstation PCs, specialized Web, SDE and ArcGIS internet servers and several dedicated departmental servers for thematic and reference mapping, GIS analysis, remote sensing interpretation, and Internet resource site development. Available computer peripherals include color laser printers, large format printers (42"), large (52") and small format scanners, digital cameras, field tablets, iPad's, and broad access to the Internet and the university's computer network. Students may have an opportunity to add to the department's Web page, and Internet reference materials. Cartographic and GIS instruction is facilitated by a sizeable software collection: Surfer, MapViewer, ArcGIS (and all associated ESRI products), ERDAS Imagine, Map Publisher, CorelDRAW, and Vue 11. All Adobe software is also maintained by the Department including Flash, Director, Premiere, Photoshop, Dreamweaver, InDesign, and Illustrator. Field equipment includes real-time and post-processing decimeter GPS units, a GPS base station, PDA's, portable field computers, tree core borers, stream current meters, soil sieves, and a stream current table. Several multimedia and GIS laboratories contain digital equipment and specialized software (e.g. Camtasia Studio) for developing Web-based materials and interactive multimedia products. The Map Center is an official depository for U.S. Geological Survey topographic maps and the National Geospatial Intelligence Agency. Several specialized map series, in both analog and digital form, are also housed within the Center.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Academic Plan--Semester system. Admissions Requirements: Contact Director of Admissions, University of Wisconsin-Stevens Point, Stevens Point, Wisconsin 54481, 715-346-2441. Financial Aid: Contact Office of Student Financial Aid, University of Wisconsin-Stevens Point, Wisconsin 54481, 715-346-4771.

FACULTY:

- Kevin P. Hefferan, Ph.D., Duke University, 1992, Professor structural geology, tectonics, physical geology, field geology, earth materials
- Neil C. Heywood, Ph.D., University of Colorado, 1989, Professor environmental hazards, biogeography, field skills, outdoor recreation, environmental change
- Samantha W. Kaplan, Ph.D., University of Wisconsin-Madison, 2003, Associate Professor — Quaternary studies, climatology, paleoecology, sedimentary geology, environmental change
- Timothy T. Kennedy, ABD, University of Wisconsin-Madison, Assistant Professor — GIS education, remote sensing, land change science, PPGIS
- Christine A. Koeller, M.S., University of Wisconsin-Stevens Point, GIS Faculty Associate — mobile GIS, environmental science, field research
- Eric J. Larsen, Ph.D., Oregon State University, 2001, Professor remote sensing, digital image processing, physical geography
- Karen A. Lemke, Ph.D., University of Iowa, 1988, Professor physical geography, geomorphology, quantitative methods
- Douglas A. Miskowiak, M.S., University of Wisconsin-Madison, GIS Education Specialist — GIS, GeoDesign, PPGIS
- Ismaila Odogba, Ph.D., University of Louisville, 2009, Associate Professor — urban and regional planning, global political economy, land use, comparative urban development, quantitative methods
- David L. Ozsvath, Ph.D., Binghamton University, 1985, Professor hydrogeology, geochemistry, environmental geology
- Keith W. Rice, Ph.D., University of Kansas, 1989, Professor cartography, environmental GIS, map animation, map visualization, mobile GIS
- Michael E. Ritter, Ph.D., Indiana University, 1986, Professor physical geography, distance education, climatology
- Lisa J. Theo, ABD, University of Wisconsin-Madison, Instructor urban/economic geography, historical geography, environmental history, tourism geography, quantitative methods

UNIVERSITY OF WISCONSIN-WHITEWATER

DEPARTMENT OF GEOGRAPHY, GEOLOGY & ENVIRONMENTAL SCIENCE DATE FOUNDED: 1963 DEGREES OFFERED: B.A., B.S., B.S.E. GRANTED 6/1/14 - 5/31/15: 36 Bachelors MAJORS: 45 Geography, 90 Environmental Science CHAIR: Dr. Peter Jacobs 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: jacobsp@uww.edu

Web: http://www.uww.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 select one of six tracks: General, Geology, Cultural, Physical/Environmental, Technical, and Urban. All tracks in the major require completion of a common core of 16 credits and narrower selection of appropriate courses for the specific track. In addition to minors in both geography and geology, two interdisciplinary minors, Environmental Studies and Urban and Area Development, are also housed and administered in the department.

The department plays a key role in a new Environmental Science major that relies on many departmental courses in physical geography, geology, GIS, and resource management. The major is now administratively housed in the department.

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 Pangaea Studios, 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. Additional funding may be available for Fischer Scholars to help defray special educational costs associated with field courses and study abroad opportunities. 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.

- Prajukti Bhattacharyya, PhD, Minnesota, 2000, Associate Professor — Mineralogy, Structural Geology, Environmental Geology
- Jonathan Burkham, PhD, UW Milwaukee, 2012, Assistant 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, Protected Areas, Private Land Conservation
- John Frye, PhD, University of Georgia, 2011, Associate Professor Climatology, Meteorology
- Rex Hanger, PhD, Berkeley, 1992, Associate Professor Paleontology, Stratigraphy, Sedimentology, Oceanography
- Peter Jacobs, PhD, UW-Madison, 1994, Professor & Chair -Geomorphology, Soils
- Margo Kleinfeld, PhD, Kentucky, 2005, Associate Professor Political, Human/Cultural, Feminist and Social Theory, South Asia
- Jeff Olson, PhD, Ohio State, 2013, Assistant Professor Economic, Land Change, GIS
- Dale Splinter, PhD, Oklahoma, 2006, Associate Professor Geomorphology, Rivers, Stream Ecology
- David Travis, PhD, Indiana, 1994, Professor & College Dean Satellite Meteorology, Synoptic Climatology, Mesoscale Climate Change

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.S.T., M.P. GRANTED: May, 2014: 13 Bachelors, 3 Masters **STUDENTS IN RESIDENCE: 52 Majors, 12 Masters NOT IN RESIDENCE: 5 Masters CHAIR: Gerald R. Webster DEPARTMENT ADMINISTRATIVE ASST: Sandra** "Sam" Kerr

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Geography, Dept. 3371, 1000 E. University Ave., University of Wyoming, Laramie, Wyoming 82071. Telephone (307) 766-3311. Fax (307) 766-3294. E-mail: stitch@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: computer cartography, quantitative methods, field methods, and geographic information systems. The program is connected with the Wyoming Geographic Information Sciences Center (WyGISC); the director of WyGISC holds a faculty appointment in the Department of Geography. Physical Geography: Centers on biogeography, climatology (particularly in climate variability), geomorphology, archeology, soils, process geomorphology including hydrology, and landscape ecology-especially pertaining to the Rocky Mountain area. New laboratory facilities permit training in advanced techniques. Courses in allied disciplines are encouraged. Spatial Analysis, Information, and Display: Offers training in field techniques, mapping, GIS, GPS, and computer mapping. Internships are available. Courses in allied disciplines are encouraged. Natural Resource Management/Recreation: Provides training in resource management in such areas as land use planning for public lands, 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 areas for the University's Ph.D. Program in Ecology.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Academic Plan M.A., M.P. Plan A, with Thesis. Plan B, with 2 papers. Admission Requirements--Applicants evaluated on an individual basis. Undergraduate backgrounds in social or natural sciences and the humanities accepted. Deficiencies remedied during the graduate program. Verbal and quantitative GRE scores and minimum undergraduate GPA required. Financial Aid--full-time masters' level Graduate Assistantships, pay \$11,700 plus remission of tuition and fees. Graduate assistantships include both teaching and research assistantships. Applicants for the Ph.D. in Ecology should meet the same standards as for the masters' program and hold a masters' degree. The Ph.D. assistantship stipend is \$16,263 plus tuition and fees remission.

- Shannon Albeke, Ph.D., University of Georgia, 2010, Assistant Research Scientist - spatial ecological data processing and analysis
- Yi Ling Chen, Ph.D., Rutgers University, 2000, Joint Global and Area Studies/Geography, Assistant Professor - Neoliberalism, housing policies, and gender
- William J. Gribb, Ph.D., Michigan State, 1982, Professor land resource planning, rural community planning, cultural ecology, computer cartography/GIS and remote sensing
- Jeffrey C. Hamerlinck, Ph.D., University of Colorado Boulder, 2010, Research Scientist and Director, Wyoming Geographic Information Sciences Center - geographic information science, spatial decisions support systems, land resource planning
- Carl J. Legleiter, Ph.D., University of California Santa Barbara, 2008, Assistant Professor - geomorphology, remote sensing, water resources
- Thomas Minckley, Ph.D., University of Oregon, 2003, Associate Conservation and Natural Resources, Professor Biogeography
- Steven Prager, Ph.D., Simon Fraser, 2002, Adjunct Professor geographic information science, spatial modeling, network theory, sustainable development
- Jacqueline J. Shinker, Ph.D., University of Oregon, 2003, Associate Professor climatology, climate change, hazards, paleoclimatology
- Gerald R. Webster, Ph.D., University of Kentucky, 1984, Professor and Chair - political, urban, and human geography, planning
- Chen Xu, Ph.D., Texas A&M, 2010, Assistant Professor Volunteered Geographic Information, Big Geospatial Data Analytics, Social Media, and Geographic Information Science
- John L. Allen, Ph.D., Clark, 1969, Professor Emeritus historical, history of geography, environmental studies, landscape change, American West
- Ronald Beiswenger, Ph.D., Michigan, 1972, Professor Emeritus natural resource conservation, geographic education. biogeography
- William L. Baker, Ph.D., Wisconsin-Madison, 1987, Professor Emeritus - biogeography, landscape ecology, natural resources, conservation, remote sensing, GIS
- 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 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 1/1/13-12/31/13: 30 Bachelors, 25 Masters, 2 Ph.D. STUDENTS IN RESIDENCE (2013): 126 Majors, 61

Masters, 34 Ph.D.

HEAD: Dr. John Yackel

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) 220-5584 Fax (403) 282-6561, E-mail: geograd@ucalgary.ca.

PROGRAMS AND RESEARCH FACILITIES: 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 Aretic, 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, Urban Studies, and Latin American 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.ucalgary.ca

THE UNIVERSITY OF LETHBRIDGE

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1967 GRADUATE PROGRAM FOUNDED: 1991 DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D. STUDENTS IN RESIDENCE: Geography Majors 52, Urban and Regional Studies 18, Archaeology/Geography 27, Remote Sensing 2, Environmental Science 127 MASTERS: 35, PhD: 12 CHAIR: Wei Xu DEPARTMENT ADMINISTRATIVE ASST: Margaret Cook

FOR FURTHER INFORMATION CONTACT: Dr. Wei Xu, Chair, Department of Geography, The University of Lethbridge, 4401 University Drive W, Lethbridge, Alberta, Canada T1K 3M4. Telephone (403) 332-4561, Fax (403) 329-2016. Email: geography.chair@uleth.ca. Web: http://uleth.ca/artsci/geography.

PROGRAMS AND RESEARCH FACILITIES: Four year undergraduate programs include B.A. and B.Sc. majoring in geography and Archaeology/Geography and a B.A. with a multidisciplinary major in Urban and Regional Studies or Remote Sensing. Geography majors may declare a concentration in Geographical Information Science" which requires additional courses in geographic information systems, remote sensing, computer cartography and quantitative methods.

The M.A./M.Sc.or PhD. Program at the University of Lethbridge encourages graduate students to develop individualized programs of study based on a research thesis supported by course work. Each program is customized to suit the needs and interests of individual students. The application process begins with discussions between a potential applicant and faculty member to investigate the possibility of a supervisory relationship. The applicant and faculty member then collaborate to design a plan of study which specifies the number and nature of courses to be completed and the nature of the thesis research. A PhD program in either a MA or MSc disciple is offered. A bachelor's degree and a master's degree are usually required for acceptance in the PhD program.

The department is well equipped for research, with additional advanced laboratory facilities also available at collaborating Federal, Provincial, and other institutions in the Lethbridge area.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, and FINANCIAL AID: Information for undergraduate admissions and scholarships is handled through the Registrar's Office: http://www.uleth.ca/ross. Information for graduate admissions and financial support is available from the School of Graduate Studies: http://www.uleth.ca/graduatestudies. A basic level of financial support is provided to each full-time graduate student but most students receive additional support through the research programs of their supervisors.

- René W. Barendregt, Ph.D. Queen's, 1977, Professor late Cenozoic paleoenvironments, climate proxies, and magnetostratigraphy; extent and timing of continental and montane glaciations
- Sarah Boon, Ph.D. Alberta, 2005 Assistant Professor Mountain hydrology, runoff generation from snow and glaciers, energetics of snow ablation (on leave)

- Shawn Bubel, Ph.D. K.U. Leuven, 2002 Associate Professor of Archaeology — geoarchaeology, postdepositional processes, Plains and Near Eastern archaeology
- James M. Byrne, Ph.D. Alberta, 1990, Professor global environmental change and water resources; GIS applications in climate and hydrology
- Craig Coburn, Ph.D. Simon Fraser, 2002, Associate Professor remote sensing, texture analysis, terrain modeling
- Guy Duke, MSc, Lethbridge, 2003, Academic Assistant GIS Analysis, Cartography, Hydrology (on leave).
- Chris Hopkinson, Ph.D., 2002 Wilfred Laurier University CAIP Research Chair — Research Interests: Natural resources assessment and environmental modeling through the integration of GIS and terrestrial, airborne and satellite lidar remote sensing
- Hester Jiskoot, Ph.D. Leeds, 1999; Associate Professor glaciology, ice flow dynamics, glacier-environment interactions, statistical and numerical glacier system analysis,
- Daniel Johnson, Ph.D., Vancouver, 1983, Professor Semi-arid ecology, plant-insect-vertebrate interactions, biodiversity
- Thomas Johnston, Ph.D, Waterloo, 1989, Associate Professor human dimensions of environmental change; rural geography and land-use
- Stefan Kienzle, Ph.D. Heidelberg, 1993, Professor and Coordinator of Environmental Science — spatial analysis; terrain modelling; hydrological modelling; GIS applications in wildlife habitat;
- Matthew Letts, Ph.D. King's College London, 2003, Associate Dean — effects of diffuse radiation, photosynthetic uptake and respiratory carbon losses in peatland ecosystems
- Kevin McGeough, PhD. Pennsylvania, 2005, Associate Professor Historical Geography, Languages and Cultures of Near Eastern and Classical Regions, Syro-Palestinian Archaeology
- Ian R. MacLachlan, Ph.D. Toronto, 1990, Professor urban economic, industrial restructuring, intensive livestock operations, TSE's
- Jacqueline Montain, M.S.A. Ryerson, 2001, Academic Assistant GIS applications in Public Health
- Derek R. Peddle, Ph.D. Waterloo, 1997, Professor remote sensing and GIS; spatial analysis and computational methods
- Ivan Townshend, Ph.D. Calgary, 1997, Professor social change in urban Canada; quantitative methods in human and physical geography
- Wei Xu, Ph.D. Guelph, 1998, Department Chair and Professor China, urban and regional economic development, labour market dynamics, resource assessment, spatial analysis and GIS

BRITISH COLOMBIA

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 9/1/13-8/31/14: 106 Bachelors, 9 Masters, 5 Ph.D.
- STUDENTS IN RESIDENCE: 491 Majors, 8 M.A., 16 M.Sc., 31 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 information science. For students with primary interests in Human Geography, the department offers a mainstream BA, with emphases on social and urban themes or on economic and resource issues. There is also a separate BA with a strong environmental dimension: the Environmental Specialty major. Additionally, students may enroll in a cross-disciplinary Certificate in Urban Studies. Three concentrations in Physical Geography 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 Physical Geography and Spatial Information Systems. Spatial 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 geoyisualization and remote sensing; 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, http://www.sfu.ca/geography/graduate-studies.html, and/or contact the Department.

GRADUATE ADMISSION 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 M.A. degree 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, paleoglaciology, paleohydrology
- Alex Clapp, Ph.D., UC-Berkeley, 1993, Associate Professor economic geography, resource conservation, forest policy
- Valorie Crooks, Ph.D., McMaster, 2005, Associate 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
- Alison Gill, Ph.D., Manitoba, 1982, Professor coastal tourism, resort development, secondary homes, tourism in mountain communities
- Roger Hayter, Ph.D., Washington, 1973, Professor BC's forest economy, environmental economic, geography of the evolutionary firm
- 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 and public participation, urban sustainable development, social learning, public policy
- Paul Kingsbury, Ph.D., Kentucky, 2003, Associate Professor cultural and social geography, psychoanalysis, social theory, aesthetics
- Anders Knudby, Ph.D., Waterloo, 2009, Assistant Professor remote sensing
- Meg Krawchuk, Ph.D., Alberta, 2007, Assistant Professor landscape ecology, pyrogeography, biogeography, conservation science
- Lance Lesack, Ph.D., UC-Santa Barbara, 1988, Professor ecosystem biogeochemistry, land and water interactions, limnology
- Geoff Mann, Ph.D., UC-Berkeley, 2003, Associate 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
- 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
- Janet Sturgeon, Ph.D., Yale, 2000, Associate Professor human geography of contemporary Asia
- Jeremy Venditti, Ph.D., British Columbia, 2003, Associate Professor - Director of the Environmental Science Program-fluvial geomorphology and sedimentology, landscape dynamics, morphodynamic modeling of river sediment
- Kirsten Zickfeld, Ph.D., Potsdam, 2004, Assistant 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

- Faran Ali, Ph.D., Saskatchewan, 2009 Hydrology, fluvial geomorphology, erosion modelling, sediment budgets
- John Irwin, PhD, British Columbia, 2004 Sustainable development and resource planning, economic and transportation geography.

ASSOCIATE MEMBERS:

- Martin Andresen, Ph.D., UBC, 2006, Associate Professor applied spatial statistics, spatial crime analysis, regional trade patterns
- Peter Hall, Ph.D., UC-Berkeley, 2002, Associate Professor port cities, logistics, employment, community development, urban economies
- Kendra Strauss, D.Phil., University of Oxford, 2008, Assistant Professor — labour geography, economic geography, feminist political economy, social reproduction, legal geography, pensions
- Joseph E. Taylor III, Ph.D., University of Washington, 1996, Professor - environmental history of fisheries, recreation, gentrification, outdoor sports, and public lands

ADJUNCT FACULTY:

- Steve Cumming, PhD. University of British Columbia, 1997, Associate Professor (Université Laval) - boreal ecology, fire ecology, spatial simulation, conservation planning
- Ray Kostaschuk, Ph.D., McMaster, 1984, Professor fluvial hydrology, geomorphology
- Olav Lian, Ph.D., Western Ontario, 1997, Associate Professor quaternary sedimentology and stratigraphy, glacial geology, geomorphology and geochronology

EMERITI FACULTY:

- Robert C. Brown, Ph.D., Michigan State, 1967 fisheries geography, resources development
- Len Evenden, Ph.D., Edinburgh, 1970 urban, local government Edward Hicken, Ph.D., Sydney, 1971 fluvial geomorphology and sedimentology
- Thomas Poiker, D.Phil, Heidelberg, 1966 economic, quantitative, computer cartography, GIS
- Michael Roberts, Ph.D., Iowa, 1966 fluvial geomorphology, field methods
- Arthur Roberts, Ph.D., Ph.D., York, 1982, Professor 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, Professor quaternary environments, coastal systems
- P.M. Koroscil, Ph.D., Michigan, 1970 historical, Canada

TRINITY WESTERN UNIVERSITY

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1962 DEGREES OFFERED: B.A. in Geography; B.A., B.Sc. in Environmental Studies GRANTED 9/1/10-4/30/11: 1 Geography MAJORS: 14 Geography; 4 Environmental Studies MINORS AND CONCENTRATIONS: 10 CHAIR: Maxwell Ofosuhene DEPARTMENT ADMINISTRATIVE ASSISTANT: Jayne Cummins

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, Trinity Western University, 7600 Glover Road, Langley, British Columbia, V2Y 1Y1. Telephone (604) 513-2169. Fax (604) 513-2143. E-mail: maxwell.ofosuhene@twu.ca Internet: http://www.twu.ca/academics/fhss/geography/.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography at Trinity Western University offers Geography majors the opportunity to join faculty in their research in the application of geomatics – particularly in the areas of environmental & resource management in dendrochronology – specifically dendroccology and dendrogeomorphology and in sustainable rural development, regional planning and cultural landscape analysis. Supplementing coursework is the department's cartography/GIS laboratory, extensive map collection and reading room, Tree-ring laboratory, and 73 acre Crow's Nest Ecological Research Area (CNERA) situated on Salt Spring Island, BC.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Trinity Western University operates with regular spring and fall semesters, and a summer semester with a variety of shorter course options. Admission to the undergraduate major program in Geography is the same as that for admission to the University. Undergraduate majors are required to take a minimum 42 semester hours of coursework in Physical, Human, Regional and Techniques geography. Twenty-four semester hours of upper-level courses are required. Undergraduate majors are eligible for a variety of university scholarships; departmental lab teaching assistantships are also available for selected students.

FACULTY:

- David Jordan, MA, University of Victoria, 2000, Assistant Professor — physical geography, dendrochronology
- Geraldine Jordan, PhD, Simon Fraser University, 2002, Assistant Professor — landscape ecology, environment
- Stuart Jones, MCIP, University of British Columbia, 1996, Adjunct long range planning, policy development, GIS
- Matthew Humphrey, MA, Regent College, Sessional Instructor environmental ethics, Christian theology, food & community
- Paul Kariya, PhD, Clark University, 1987, Adjunct resource management, fisheries
- Maxwell Ofosuhene, PhD, University of Saskatchewan, 2005, Assistant Professor and Chair — human geography, rural development, regional economic development
- Terry Neufeldt, M.Sc, Western Washington University, Sessional Assistant Professor of Geography
- Daniel Nnane, PhD, University of Brighton, 2010, Sessional Instructor — geomorphology, aquatic management, water & microbial dynamic, quantitative methods
- Andrew Perkins, PhD Candidate, Simon Fraser University, 2014, Adjunct — geomorphology, GIS
- Jamie Spinney, PhD, McMaster University, 2011, Adjunct land use planning, spatial analysis, and property taxes

EMERITUS FACULTY: Carl Tracie, PhD, Alberta, 1970 — Canada, cultural landscapes

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 9/1/13-8/31/14: 131 Bachelors, 15 Masters, 5 Ph.D. STUDENTS: 18 Minors, 468 Majors, 42 Masters, 70 Ph.D. HEAD: Marwan Hassan DEPARTMENT ADMINISTRATIVE ASST: Connie

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). Internet: www.geog.ubc.ca.

Cheung

PROGRAMS AND RESEARCH FACILITIES: M.A., M.Sc., Ph.D. Programs: The UBC Department of Geography offers three four-year undergraduate programs, two BA programs (Human Geography and Environment and Sustainability) and one BSc program (Geographical Biogeosciences). 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. 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 the future of life on planet earth. Finally, Geographical Biogeosciences, 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.

1. Programs in *Biogeosciences* 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 major substantive specializations are: Biogeography (forest and plant ecology; Arctic environments); Climatology (air pollution; meteorology; mesoscale modeling; urban climatology, climate change, biogeochemistry); GIS and remote sensing (accuracy, fractals, integrated systems); Geomorphology (landscape evolution, watershed geomorphology; hillslope geomorphology and movements; fluvial sediment transport, fluvial geomorphology and river ecology); Hydrology (surface water, snow hydrology; water quality, energy and mass balance).

2. Programs in *Human Geography* explore 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).

3. 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, Comparative Literature, Hydrology, International Relations, Remote Sensing, 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. In university: second largest library in Canada.

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 - Honours or major degree in geography with at least upper Second Class Standing or a grade point average of 3.4 on a 4.0 scale. 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 PhD students are provided with financial support of at least \$22,000 per year for the first four years of their PhD studies.

NSERC, SSHRC, Commonwealth, and Ford Foundation Fellowships 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. There are other teaching and research assistantships for the summer session, May to August.

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
- Loch Brown, Ph.D., Sussex, 2007, Instructor development, collective action, associational dynamics, political ecology, West Africa
- Andreas Christen, Ph.D., Basel, 2005, Associate Professor landatmosphere interactions; carbon cycle; urban climatology
- 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

- David W.C. Edgington, Ph.D., Monash, 1986, Professor economic, urban economic, Japan, Asia Pacific
- Matthew D. Evenden, Ph.D., York, 2000, Associate Professor environmental history, historical, water and Canada
- James F. Glassman, Ph.D., Minnesota, 1999, Professor development, third world urbanization, economic, political, Southeast Asia
- Derek 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 Henry, Ph.D., Toronto, 1987, Professor plant ecology, tundra ecosystems, biogeography
- Sally A. Hermansen, M.A., Queens, 1984, Senior Instructor cartography, geographic information science, remote sensing
- Dan Hiebert, Ph.D., Toronto, 1987, Professor urban, immigration, Canada
- Brian Klinkenberg, Ph.D., Western Ontario, 1988, Professor geographic information science, biodiversity informatics, medical biogeography
- Michele Koppes, Ph.D., Washington, 2007, Assistant 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
- David F. Ley, F.R.S.C.; Ph.D., Pennsylvania State, 1972, Professor, Canada Research Chair — immigration, gentrification, housing markets, urban social geography
- Ian 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 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 Pratt, Ph.D., British Columbia, 1984, Professor feminist geography; Filipino transnationalism; geographies of film, performance
- John Robinson, Ph.D., Toronto, 1981, Professor sustainability, participatory integrated assessment, future studies, energy policy
- 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. Wyly, Ph.D., Minnesota, 1995, Associate Professor urban; social policy; quantitative methods; housing
- Graeme Wynn, F.R.S.C.; Ph.D., Toronto, 1974, Professor historical, environmental, Canada, New Zealand

EMERITI FACULTY:

- Michael J. Bovis, Ph.D., Colorado, 1974, Associate Professor Emeritus – geomorphology, landslides
- John D. Chapman, Ph.D., Washington, 1958, Professor Emeritus economic (manufacturing and energy), philosophy of geography

- Michael 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 Denike, Ph.D., Pennsylvania, 1973, Assistant Professor Emeritus — urban, quantitative methods, transportation
- R. Cole Harris, O.C.; F.R.S.C.; Ph.D., Wisconsin, 1964, Professor Emeritus — historical, Canada
- 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

UNIVERSITY OF THE FRASER VALLEY

DEPARTMENT OF GEOGRAPHY AND THE ENVIRONMENT

DATE FOUNDED: 1992

- DEGREES OFFERED: B.A., Geography; BSc , Physical Geography
- BA GRANTED 5/1/13-4/30/14: 27 Majors, 15 Minors (7 extended), 0 Honours
- BSc GRANTED 5/1/13-4/30/14: 2 Majors, 2 Minors, 0 Honours
- STUDENTS IN RESIDENCE (BA): 108 Majors, 35 Minors (including extended), 1 Honours
- STUDENTS IN RESIDENCE (BSc): 23 Majors, 6 Minors (including 1 extended)
- HEAD: Steven Marsh
- DEPARTMENTAL ADMINISTRATIVE ASSISTANT: Myra Hughes

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 (BA). 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 Woods Hole World Rivers Group.

RESEARCH FACILITIES: The UFV Department of Geography and the Environment is home to the Luminescence Dating Lab, the Paleoecology 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 Spring (May-Aug) term. Courses offered at multiple campuses: Abbotsford, Chilliwack, and Mission, BC, and in Chandigargh, 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.

- Carolyn Atkins, MSc., Saskatchewan, 1994, Lab Instructor Physical Geography
- Claire Beaney, M.Sc., Alberta, 1998, Associate Professor (on maternity leave through 12/04) — Geomorphology, Geographic Techniques, Land Claims, Cartography and Historical 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
- Jonathan Hughes, Ph.D., Simon Fraser, 2002, Associate Professor Biogeography, Paleoecology, Dendrochronology, Paleoseismology

- Olav B. Lian, Ph.D., Western Ontario, 1997, Associate Professor Quaternary Sedimentology, Stratigraphy, Paleoenvironments, Geochronology, Paleoecology 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

ADJUNCT FACULTY

- John Clague, Ph.D., British Columbia, 1973 Natural Hazards, Quaternary Geology
- Thomas Forge, Ph.D., University of Wisconsin-Madison, 1990 Soil Ecology and Agriculture, Plant Pathology
- 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
- Dan Selbie, Ph.D., Queen's, 2008 Fisheries (salmon) and Aquatic Ecology, Paleolimnology

POST-DOCTORAL FELLOWS

- Christina Neudorf, PhD., Wollongong (Australia), 2012, Hakai Scholar — Luminescence Dating, Geochronology
- *Lisa Powell, PhD., University of Texas-Austin, 2013* Agricultural land conservation, resource communities

UNIVERSITY OF NORTHERN BRITISH COLUMBIA

GEOGRAPHY PROGRAM

- DATE FOUNDED: University opened in September 1994
- DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D. GRANTED 9/1/13 – 8/31/14: 5 Bachelors, 2 Masters, 1

Ph.D.

STUDENTS IN RESIDENCE: 9 Masters, 5 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:

Joselito Arocena, Ph.D., Alberta, 1991, Professor — properties, formation and classification of soils; environmental soil mineralogy and chemistry

- 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:

- José Pablo Baraybar, M.A., Grenoble, 2012 forensic anthropology; criminal justice; memorialization
- Matthew Beedle, Ph.D., UNBC, 2013 glaciology; climatology; remote sensing; science communication
- Eric Grunsky, Ph.D., Univ. of Ottawa, 1988 remote sensing and image processing; statistical/numerical methods in the Earth Sciences
- 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

MANITOBA

BRANDON UNIVERSITY

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1962 DEGREES OFFERED: B.A., B.Sc. GRANTED 9/1/13-8/31/14: 4 B.A, 5 B.Sc. MAJORS: 34 CHAIR: C. Malcolm

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, Brandon University, 270 18th Street, Brandon, Manitoba, Canada, R7A 6A9. Telephone (204) 727-9677 (Faculty of Science Administrative Assistant). Fax (204) 728-7346 (specify for Department of Geography). Email:geography@brandonu.ca. Internet: www.brandonu.ca/Geography.

PROGRAMS AND RESEARCH FACILITIES: The Department offers 3-year B.A. and B.Sc. degrees, 4-year B.A. and B.Sc. honours degrees, and 4-year B.A. and B.Sc. Degrees with Environmental Studies and Geomatics Concentrations. The Department also participates in a 2+2 articulation agreement with Assiniboine Community College. ACC graduates can transfer directly into the third year of a B.Sc. or B.A. in either the Environmental Studies or Geomatics Concentration.

The Department is located in the Brodie Science Centre. The department houses the B.U. Department of Geography Centre for Geomatics and oversees operation of the John Tyman Map Library. The Department is a depository for the Canadian National Topographic Map Series and has an extensive collection of air photographs of southwestern Manitoba.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Brandon University operates on a semester system. In order to obtain a 3-year major in geography a student has to take a minimum of 30 credit hours out of a total of 90 credit hours for the degree. The 4-year degree requires a minimum of 48 credit hours in geography from a total of 120. Students are required to take a group of common core introductory, methods and techniques courses followed by either the B.A. or B.Sc. stream.

Admission to the faculties of arts and science is by graduation from a Manitoba high school, or the equivalent for other provinces or countries. There is also the possibility of mature admission or special admission for students who have not followed the traditional education route--in these cases the admission requirements are more flexible. The University offers a number of entrance scholarships and bursaries to applicants from Canadian high schools. Also, general loan funds are available to Brandon University students, of which the most frequently used is the Canada Student Loan Fund.

FACULTY:

- Derrek A. Eberts, Ph.D. York, 2001 Associate Professor economic restructuring, work organization and technological change, rural diversification, tourism, the brewing industry
- Rachel V. Herron, M.A., Trent, 2011, Assistant Professor rural health, aging, dementia, care and caregiving, voluntarism, and gender and health
- Wenonah L. Van Heyst, M.GIS, Calgary, 2001, Instructional Associate — GIS, remote sensing, physical geography
- Christopher D. Malcolm, Ph.D. Victoria, 2003, Associate Professor — biogeography, wildlife management, wildlife ecotourism, human dimensions
- R. Douglas Ramsey, Ph.D., Guelph, 1998, Affiliated Professor rural development, agriculture, popular music
- Pete Whittington, Ph.D., University of Waterloo. 2013, Assistant Professor — physical geography, hydrology, soil physics, wetlands
- Dion J. Wiseman, Ph.D., Indiana State, 1997, Associate Professor Physical geography, GIS, remote sensing, cartography

PROFESSORS EMERITUS:

John C. Everitt, Ph.D., UCLA, 1972, Professor — urban, behavioural, cultural, aging, Commonwealth Caribbean

Rod A. McGinn, Ph.D., Manitoba, 1979, Professor — climatology, hydrology, river mechanics, glacial geomorphology

THE UNIVERSITY OF MANITOBA

DEPARTMENT OF ENVIRONMENT AND GEOGRAPHY

DATE FOUNDED: 1951

GRADUATE PROGRAM FOUNDED: 1953

- DEGREES OFFERED: B.A., B. Sc., M.A., M. Sc., M.Env., Ph.D.
- GRANTED 9/1/13-8/31/14: 50 Bachelors, 10 Masters, 4 Ph.D.
- STUDENTS IN RESIDENCE: 96 Majors, 51 Masters, 19 Ph.D.
- NOT IN RESIDENCE: Masters & Ph.D.
- HEAD: Michael Campbell (Acting)
- DEPARTMENT ADMINISTRATIVE ASST: A. Roberecki

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Graduate Studies Committee, Department of Environment & Geography, The University of Manitoba, Winnipeg, Manitoba, Canada R3T 2M6. Telephone (204) 474-9667. Fax (204) 474-7699. E-mail:environment_geography@umanitoba.ca.

Internet: www.umanitoba.ca/faculties/environment/department/geogra phy.index.html

PROGRAMS AND RESEARCH FACILITIES: Graduate research opportunities are available in many aspects of human geography, notably in such fields as agricultural, cultural, and resource geographies, and in land utilization and resource management, regional development, geography of aging, and environmental cognition. In physical geography, research training exists mainly in atmospheric science, climatology, hyrdoclimatological, Arctic systems, geomorphology, hydrology, water quality, and associated studies of natural hazards. Facilities are available for research involving remote sensing, computer cartography and both human and physical applications of GIS. Most graduate research focuses on Western Canada and the Arctic. Studies of Winnipeg and other Manitoban settlements continue to be numerous. Ample scope exists for research on recreation and other resources of Manitoba, the cultural and historical geographies of the Prairies, and the spectrum of economic activities in this region. On July 1, 2002, the Department became an integral component of the newly created Clayton H. Riddell Faculty of Environment, Earth and Resources; a development which has lead to greater research opportunities for students.

The Department has access to a wide range of computer equipment for teaching and research. Geomatics teaching and research facilities for graduate students within the Department include a number of physical geography labs (2 wet labs, 2 dry labs, and a cold lab all located within the Centre for Earth Observation Science (CEOS) facility in the Wallace building) and a Faculty supported computer laboratory.

All departmental computers access software licenses for a full array of ESRI products.

Field research equipment used within CEOS can be broadly grouped into the following categories: microwave systems (both passive and active), optical systems (VIS/NIR spectrometers), micro-climate sensors (gas flux instrumentation), climate, water, chemistry, meteorology, oceanography, transportation, and power.

Together these laboratories and field research equipment are funded/maintained by the Centre for Earth Observation Science. (www.umanitoba.ca/ceos)

Data for teaching and research are available through agreements with Statistics Canada for census data, Linnet Geomatics for provincial data, and Canada Centre for Remote Sensing for space-borne data.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

M.A. PROGRAM: Courses (in Geography and related fields) plus thesis; admission with a minimum G.P.A. of 3.25 (out of a possible 4.5) standing in Honors or advanced Geography degree. Students must provide a letter of support from potential program advisor. Applicants are responsible for contacting potential advisors prior to commencing their application. No applications will be approved without a confirmed advisor.

M. Sc. PROGRAM: Courses plus thesis; admission with a minimum G.P.A. of 3.25 (out of a possible 4.5) standing in Honors degree or equivalent in Geography (physical geography specialization) or from a program in the Earth or Environmental Sciences. Students must provide a letter of support from potential program advisor. Applicants are responsible for contacting potential advisors prior to commencing their application. No applications will be approved without a confirmed advisor.

M.ENV PROGRAM: Courses plus thesis; admission with a minimum G.P.A. 3.25 (out of a possible 4.5) standing in a 4 year program of Environmental Science or Environmental Studies program. Students

must provide a letter of support from potential program advisor. Applicants are responsible for contacting potential advisors prior to commencing their application. No applications will be approved without a confirmed advisor.

PH.D. PROGRAM: Courses plus thesis; admission with a minimum G.P.A. of 3.50 (out of possible 4.5) standing in a M.A./M.Sc. Geography program. Graduate student support in the form of University Fellowships, and graduate teaching and service assistantships are available Students must provide a letter of support from potential program advisor. Applications are responsible for contacting potential advisors prior to commencing their application. No applications will be approved without a confirmed advisor.

- David G. Barber, Ph.D., Waterloo, 1992, Professor, Canada Chair, Arctic Systems Science — causes of change in both dynamic and thermodynamic processes of sea ice due to climate forcing; the consequences of these changes on marine and human systems; and techniques required to improve our ability to assess both the causes and consequences of these changes
- Richard K. Baydack, Ph.D., Colorado State, 1986, Professor biogeography, ecosystem management, conservation of biological diversity, sustainable agriculture, sustainable water management, wildlife and fisheries habitat
- S. Mary P. Benbow, Ph.D., Liverpool, 1991, Associate Professor social, cultural and environmental implications of zoos and aquariums; part of a broader field "Animal Geographies"; Critical cartography and human-nature relationships (applied to historical and contemporary zoo maps); examination of messages concerning climate change in zoos (specifically in Arctic themed exhibits) and the use of overheard conversation techniques to monitor visitor responses; photographs at the Zoo: meanings, intentions, and doings
- Michael Campbell, Ph.D., Waterloo, 1996, Professor, Acting Department Head — the relationship between various forms of nature based tourism, outdoor recreation and the environment in which these activities takes place
- *Jens K. Ehn, Ph.D. Manitoba, 2008, Assistant Professor* sea-ice geophysics, processes and feedback that control solar radiation interactions in the Arctic marine and sea-ice environment in order to improve our ability to predict the impacts caused by a changing Arctic climate
- Bruce Erickson, PhD., York, 2009, Assistant Professor cultural politics of outdoor recreation; neoliberalism, nature and environmental activism; Canadian identity, space and colonialism; critical geographies of risk and nature; Gender, Race and Sexuality and nature
- Bonnie C. Hallman, Ph.D., Guelph, 1997, Associate Professor Community and families with medically-dependent children; zoos as social/culture spaces, family geographies and leisure environments; zoos as social/cultural spaces; therapeutic landscapes
- John M. Hanesiak, Ph.D., Manitoba, 2001, Professor atmospheric controls on polar surfaces, severe weather, mesoscale to synoptic scale meteorology and weather forecasting, surface-planetary boundary layer interactions
- Mark Hanson, Ph.D. Guelph, 2002, Associate Professor aquatic toxicology, ecological risk assessment, freshwater ecology
- Stephane McLachlan, Ph.D., York, 1997, Professor environmental restoration, action and participatory video research, biogeography of invasives, participatory mapping of local rural knowledge, participatory risk analysis of disease and genetically modified crops, urban agriculture and agoecology, watershed management and landuse planning
- Christopher John (CJ) Mundy, Ph.D. Manitoba, 2007, Associate Professor — sea ice and marine bio-optics; physical and biological processes controlling timing of primary production in ice-covered seas

- Jill Oakes, Ph D. ,Manitoba, 1988, Professor Alaskan coastal cultures, aviation and the environment, Hudson's Bay Company families at York Factory 1900-1930, indigenous peoples and environmental change, island human and biogeography
- *Tim Papakyriakou, Ph.D., Waterloo, 1999, Professor, Director Centre for Earth Observation Science* — surface climates, air-sea CO2 fluxes and heat exchange in Arctic coastal marine environments, heat and carbon budgets of sea ice dominated areas
- Jonathan Peyton, Ph.D. British Columbia, 2011, Assistant Professor — environmental and historical geography; resources geography; political ecology of extractive economics; environmental governamce
- Ronald Stewart Ph.D., Toronto, 1977, Professor Extreme events including storms and drought, Winter precipitation, climate change and coastal cities
- David Walker, Ph.D., Manitoba, 2002, Assistant Professor geomatics in biological systems; remote sensing; biometric applications; and ecosystem investigations in grassland and boreal forest environments
- *Feiyue Wang, Ph.D., Peking, 1995, Professor* metal speciation in the sulfidic environment, mercury in the Arctic and sub-Arctic and the Tibetan plateau, selenium in prairie waters

SENIOR SCHOLARS:

- William Norton, Ph.D., McMaster, 1973, Professor competing identities and contested landscapes, theories of behaviour and human geography
- Geoffrey C. Smith, Ph.D., McMaster, 1974 Canadian senior citizen housing, institutional care resources for older people in the UK, spatial changes in the elderly population of England and Wales, elderly retirement migration
- Ramesh C. Tiwari, Ph.D., Reading, 1964 urban, developing countries, India, Africa

DISTINGUISHED PROFESSOR EMERITIS

Vaclav Smil, Ph.D., Pennsylvania State 1972, Distinguished Professor — energy myths and reality, Why America is NOT a new Rome, the Two Prime Movers of Globalization; History and Impact on Diesel Engines and Gas Turbines; Energy Transitions

ONTARIO

BROCK UNIVERSITY

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: 1964 DEGREES OFFERED: B.A., B.Sc., M.A. GRANTED 9/1/14-8/31/15: 43 Bachelors MAJORS: 190 CHAIR: Christopher Fullerton DEPARTMENT ADMINISTRATIVE Coordinator: Virginia Wagg

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Department of Geography, Brock University, St. Catharines, Ontario, CanadaL2S 3A1. Telephone (905) 688-5550, ext. 3484. Fax (905) 688-6369. E-mail: geography@brocku.ca. Internet: www.Brocku.ca/geography/.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers programs leading to an M.A. degree and B.A. and B.Sc. degrees at the Honours and pass levels, and participates in a number of combined major programs In addition, the Department offers four-year Honours programs leading to either a BA or BSc degree in Geography with a Concentration in Geomatics; a five-year

Honours degree in Geography concurrently with a B.Ed. degree; and a four-year Honours 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 an optional Honours thesis in year 4. Field work features prominently in some 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 Maps, Data and GIS Library contains an extensive collection of maps, atlases and geospatial datasets housed adjacent to the Geography Department.

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.

- Jeff Boggs, Ph.D., UCLA 2005, Associate Professor economic geography, cultural industries, regional political economy
- David Butz, Ph.D., McMaster, 1993, Professor cultural, social geography, qualitative methods, music, Pakistan, road construction and social change
- Daryl Dagesse, Ph.D., Guelph, 2006, Associate Professor periglacial geomorphology, soil physics
- Christopher Fullerton, Ph.D., Saskatchewan, 2004, Associate Professor — public transit, sustainable transportation, rural land use planning and community economic development, history of urban and regional planning in Ottawa
- Hugh J. Gayler, Ph.D., British Columbia, 1974, Professor Emeritus — urban social, urban planning, rural-urban fringe development issues
- Marilyne Jollineau, 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, Associate Professor social, cultural geography, urban studies and planning, feminist, lgbt, queer, trans issues
- Michael Pisaric, Ph.D., Queen's, 2001, Associate Professor biogeography, climate change, dendrochronology, paleolimnology, ecological disturbance, Arctic
- 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, 200, Professor geographical reasoning, philosophy of the social sciences, social theory, economic geography, the psychology-geography interface
- 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 9/1/13-8/31/14: 97 Bachelors, 6 M.A., 5 M.Sc., 8 Ph.D.
- STUDENTS IN RESIDENCE: 409 Majors, 15 M.A., 24 M.Sc., 29 Ph.D.

NOT IN RESIDENCE: M.A., M.Sc., Ph.D.

CHAIR: Doug King

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)

Graduate Programs

The Department's M.A., M.Sc. and Ph.D. programs encourage students to integrate perspectives from the biophysical and social sciences.

M.A. research themes include: (1) Society/environment interactions – rural and resource development, environmental impact assessment, human response to environmental change, gender and environments, sustainable community; and (2) *Political economy of geographical change* – globalization, industrial and community restructuring, territorial identities, environmental geopolitics, environmental conflict and democracy, the developing world, cultures, resources, rural development, gender.

M.Sc. research themes focus on *Processes of environmental change* – cold regions, climate-ground interactions, soil resources, quaternary environments. Students may specialize in biogeography, hydrology, geomorphology, microclimatology, glaciology, and permafrost processes.

Geomatics research themes include: remote sensing, GIS, computerassisted cartography, and spatial analysis. Geomatics applications to other thematic areas and disciplines can be taken either as an M.A. or a M.Sc. depending on research focus.

The Ph.D. 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. 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:

M.A./M.Sc. programs: Admission requirements of at least B+(77%) average in Honours Geography or equivalent program. Candidates with other qualifications may be accepted into a qualifying year. Fall term entry is the norm.

Ph.D. program: Admission requirements of at least A- (80%) average in a Master's Geography program or equivalent. Students commence their program in September.

Financial assistance: Graduate scholarships and assistantships for qualified students. Funding is available for two years at the Masters level and five years at the Ph.D. level for qualified students. The department and university also offer several awards and bursaries to assist with graduate studies.

FACULTY:

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 09/01/2013-11/21/2014: 143 Bachelors STUDENTS IN RESIDENCE: 42 Masters, 40 Ph.D. DIRECTOR: Dr. Bruce Newbold DEPARTMENT ADMINISTRATOR: Katherine Philp

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, 6) Assistantships: Scholarships, 5) University Candidates for the Ph.D. without external scholarship will receive \$10,693.20 Teaching Assistantship and \$11,210.00 Department Scholarship; candidates for M.A. or M.Sc. without external scholarship will receive: \$10,693.20 Teaching Assistantship and \$9,308.00 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
- 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
- Luc Bernier, Ph.D., McMaster, 2007, Assistant Professor geomicrobiology, environmental geochemistry
- Vera A. Chouinard, Ph.D., McMaster, 1987, Professor urban political economy
- Sean Carey, Ph.D., McMaster, 2000, Professor --- cold weather
- Paulin Coulibaly, Ph.D., Laval, 2000, Professor water resources systems analysis and modeling (joint appointment with Civil Engineering)
- Alan P. Dickin, D.Phil., Oxford, 1981, Professor geology
- Carolyn H. Eyles, Ph.D., Toronto, 1986, Professor glacial sedimentology
- John D. Eyles, Ph.D., London, 1983, University Professor social, medical, environment and health

- Richard S. Harris, Ph.D., Queen's, 1981, Professor social/political geography
- Pavlos S. Kanaroglou, Ph.D., McMaster, 1987, Professor urban models, transportation, population
- Sang Tae Kim, Ph.D., McGill University, 2006, Assistant Professor -Stable Isotopy Geochemistry
- John MacLachlan, Ph.D, McMaster, 2011, Assistant Professor advancement in classroom technologies and learning, glacial spatial distribution
- Suzanne Mills, Ph.D., Saskatchewan, 2007, Assistant Professor gender, equity and unions, labour and the environment
- Michael Mercier, Ph.D., McMaster, 2003, Assistant Professor teaching and learning environment and methods, social geography
- William A. Morris, Ph.D., Open University, 1974, Professor geology
- 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
- Walter G. Peace, Ph.D., McMaster, 1996, Associate Professor urban historical geography
- Eduard G. Reinhardt, Ph.D., Carleton, 1996, Professor geology
- W. Jack Rink, Ph.D., Florida State, 1990, 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
- Michael Waddington, Ph.D., York, 1995, Professor -J. biogeochemistry
- Lesley A. Warren, Ph.D., Toronto, 1994, Professor aquatic geochemistry
- Allison M. Williams, PhD.-, York 1997, Professor Social Geography and Health
- Robert D. Wilton, Ph.D., Southern California, 1999, Professor urban, disability, health
- Niko Yiannakoulias, Ph.D, University of Alberta 2006, Associate Professor - Spatial Analysis, Environment & Health

QUEEN'S UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1960

GRADUATE PROGRAM FOUNDED: 1965

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

- GRANTED 9/1/13 8/31/14 51 Bachelors, 12 Masters, 9 Ph.D.
- STUDENTS IN RESIDENCE: 312 Majors, 22 Masters, 47 Ph.D.

NOT IN RESIDENCE: 2 Masters, 7 Ph.D. **HEAD:** Paul Treitz

- **DEPARTMENT COORDINATOR: Kathy Hoover**
- FOR CATALOG AND FURTHER INFORMATION WRITE TO: geography.grad.info@queensu.ca, World Wide Web: http://geog.queensu.ca

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers programs of study in the following fields:

1. Work, Identity, and Place

Labour geographies; labour market restructuring and regulation; international divisions of labour; labour migration; employment equity; gender divisions of labour.

Faculty: Donald, Holmes, Hovorka, Kobayashi, Mullings.

2. Globalization, Development, Economies and Sustainability

Globalization, neoliberalism and the new economy; development economies and restructuring; industrial geographies; commodity chains and cultural economy; economy and governance; innovation; political economies of cities; global change and health; international political economy.

Faculty: Castleden, Donald, Holmes, Hovorka, Lovell, Mabee, Mullings, Rosenberg.

3. Bodies, Health, and Health Care

The human and social body; socio/historical constructions of bodies; bodies and nature; access to health care; gender and health; emotional geographies; aging; demographic change; critical disability studies; food and food security; health and environment; environmental justice.

Faculty: Cameron, Castleden, Davidson, Donald, Masuda, Rosenberg.

4. Citizenship, Identity, Justice and Governance

Immigration; race and racism; feminist geographies; citizenship participation and social justice; social movements; identity, multiculturalism, indigenous social justice, access to services; urban governance; housing.

Faculty: Cameron, Castleden, Chen, Davidson, Godlewska, Kobayashi, Masuda, Mullings, Rosenberg.

5. Postcolonialism, Indigenous Peoples and Place

Historical and contemporary: practices of representation; indigenous places; literary geographies; colonial and postcolonial discourses; emotional geographies of place; cultural politics of race, class, and gender.

Faculty: Cameron, Castleden, Godlewska, Kobayashi, Lovell, Mullings, Rosenberg.

6. 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 focusing on interactions/and linkages between the lithosphere, atmosphere, hydrosphere, cryosphere, and biosphere and on physical, chemical, and biological processes at multiple spatial and temporal scales. Measurement, integration, and modelling of earth system elements are key foci of research and graduate training. Field measurements and sample collection are matched with laboratory and data analysis, and modelling. Two broad research areas include Forest Ecosystems (biophysical and physiological processes of forest systems, especially boreal; exchange of energy, water, and trace gases, and local and regional integration with remote sensing and modelling approaches); and Cold Regions (diverse polar and alpine environments, with emphasis on hydrological, marine, geomorphic and biogeochemical processes and sedimentary systems).

Faculty: Chen, Danby, Lafrenière, Lamoureux, Mabee, McCaughey, Scott, Treitz.

7. Geographic Information Science

Faculty examine the theoretical, technical and applied aspects of cartography, geographic information systems, remote sensing and image processing, and modeling of human and natural systems. Specific research interests include: contemporary and historical cartography; land cover/use change detection and analysis; disease modeling; mapping/modeling human impacts on the environment; social, economical, and environmental interaction; biophysical remote sensing; image processing; resource/location optimization; geovisualization; environmental exposure analysis; accuracy and error modeling.

Faculty: Chen, Danby, Godlewska, Scott, Treitz.

FULL- AND PART-TIME FACULTY:

- Laura Cameron, Ph.D., Cambridge, 2001, Associate Professor and Canada Research Chair — historical, cultures of nature
- Heather Castleden, Ph.D., Alberta, 2007, Associate Professor community based participatory research, Indigenous-settler relations, health equity and social/environmental justice, racism, ethics
- DongMei Chen, Ph.D., San Diego State/University of California-Santa Barbara, 2001, Associate Professor — geographic information systems, remote sensing, spatial analysis, environmental management
- 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, Associate 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 colonial and postcolonial geographies, histories and literatures, history of geography and cartography, Canadian aboriginal issues
- 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
- Alice Hovorka, Ph.D., Clark University, 2003, Associate Professor urban geography, political ecology, gender, 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, Assistant Professor biogeochemistry, hydrology, carbon and nutrient cycling in alpine and arctic catchments
- Scott Lamoureux, Ph.D., Alberta, 1998, Professor paleoclimatology, paleohydrology, hydrology, geomorphology, cold regions
- W. George Lovell, Ph.D., Alberta, 1980, Professor historical, cultural, Latin America
- Warren E. Mabee, Ph.D., Toronto, 2001, Associate Professor forests and energy, bioenergy and biofuel technology, regional energy systems
- Jeffrey R. Masuda, Ph.D., Alberta, 2005, Associate Professor environmental health equity, social and environmental justice, urban health, knowledge translation, right to the city
- J. Harry McCaughey, Ph.D., McMaster, 1972, Professor Emeritus forest climatology, radiation, energy and water balance climatology, carbon cycling in ecosystems
- David A. McDonald, Ph.D., Toronto, 1996, Professor in Global Development Studies — urbanization/cities, environmental justice, international migration, development, southern Africa
- Katherine McKittrick, PhD., York, 2003, Associate Professor in Gender Studies — diasporic and migratory histories and cultures, cultural geographies, black studies and critical race studies
- Eric G. Moore, Ph.D., Queensland, 1966, Professor Emeritus population, urban, public policy
- Beverley 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
- David Murakami-Wood, Ph.D., Newcastle, U.K., 2001, Associate Professor of Sociology — Surveillance, Technology and Society, Global Cities, Social Theory
- Brian S. Osborne, Ph.D., Southampton, 1967, Professor Emeritus historical, cultural
- 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
- Mark W. Rosenberg, Ph.D., London School of Economics, 1980, Professor — population studies, medical, public policy
- Joan Schwartz, Ph.D., Queen's, 1998, Associate Professor of Art History — History of Photography, Nineteenth-Century Photography and the Geographical Imagination, Early Landscape/Travel Photography, The Management of Photographic Archives
- Neal Scott, Ph.D., Colorado State, 1996, Associate Professor and Canada Research Chair — biogeography, biogeochemistry, disturbance effects on carbon and nitrogen cycling, land-use change and greenhouse gas emissions
- Rowland R. Tinline, Ph.D., Bristol, 1973, Professor Emeritus medical, geographic information systems, disease modelling
- Paul M. Treitz, Ph.D., Waterloo, 1997, Professor and Head biophysical remote sensing of arctic and boreal environments, modeling forest ecosystem structure using lidar, soil moisture modeling using SAR
- Leela Viswanathan, Ph.D., York, 2007, Associate Professor of Urban and Regional Planning — planning pedagogy, colonial and postcolonial cultures of planning, immigration and sustainability

RYERSON UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1974

DEGREES OFFERED: B.A. in Geographic Analysis (GA), B.A. in Environment and Urban Sustainability (EUS), Master of Spatial Analysis (M.S.A.)

DEGREES GRANTED 7/1/12-6/30/13: 60 Bachelors (GA), 24 Masters (MSA)

STUDENTS IN RESIDENCE: 319 Majors (GA), 141 Majors (EUS), 31 Masters (MSA)

DEPARTMENT ADMINISTRATOR: Christina Smith GA PROGRAM ADMINISTRATOR: Sally Wong EUS PROGRAM ADMINISTRATOR: to be announced

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Shuguang Wang, Interim Chair, Department of Geography and Environmental Studies, Ryerson University, 350 Victoria Street, Toronto, Ontario, Canada M5B 2K3. Telephone 416-979-5000 ext. 6170 Fax 416-979-5362 E-mail: info@geography.ryerson.ca Internet: 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 a four-year honours-level degree, Bachelor of Arts (B.A.).

Through the G. Raymond Chang School of Continuing Education, the department offers four 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 specific GIS applications and in GIS theory for those who want to enter a GIS-related occupation and for GIS-professionals wishing to extend 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. The Certificate in Global Diasporas, Transnationalism and Migration Cities takes a contemporary approach to the phenomena of diaspora by examining the migration of peoples linked to the initial stages of a global economy in the twentieth and twenty-first centuries. The principal focus of the program will be on contemporary diasporas in the context of ever-accelerating globalization.

Jointly with the Centre for the Study of Commercial Activity at Ryerson University, the department offers the Master of Spatial Analysis (M.S.A.) program. This is a one-year program full-time; the program is also offered part-time over two years. There are 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 (M.A.Sc., Ph.D.), Immigration and Settlement Studies (M.A.), and Policy Studies (Ph.D.).

ACADEMIC PLAN AND ADMISSION REQUIREMENTS: Ryerson's Geographic Analysis program aims to provide courses of career relevance with emphasis on the application of geographic knowledge to real world problems. The curriculum design allows students to specialize in at least two of the following areas: Retail/Industrial location, Recreation Studies, Environmental and Resources Management, Urban Analysis, and GIS. See: www.ryerson.ca/undergraduate/calendars/ for more information.

To qualify for admission to the undergraduate program, 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, Ph.D. Queen's (Canada), 2013 Arctic biophysical systems, remote sensing, GIS
- Douglas Banting, Ph.D., Western Ontario, 1982 GIS, cartography, physical geography
- Michal Bardecki, Ph.D., York (Canada), 1981 Wetlands, environmental impact assessment, environmental education, Nepal
- Harald Bauder, Ph.D., Wilfrid Laurier, 1998 Critical geographies, international migration, labour markets, geographic practice
- Valentina Capurri, Ph.D., York (Canada), 2010 Urban geography, globalization, immigration, citizenship and identity
- Brian Ceh, Ph.D., Western Ontario, 1994 Business and commercial geography, GIS, urban-economic, quantitative
- Philip Coppack, Ph.D., Waterloo, 1985 Economic geography, globalization, quantitative methods

- Sara Edge, Ph.D., McMaster, 2012 Environment and sustainability governance, complex socio-ecological systems, promotion of healthy sustainable communities
- Eric de Noronha Vaz, Ph.D., NOVA Lisbon, 2011 GIS, complex systems, regional and urban planning, neogeography
- K. Wayne Forsythe, Ph.D., Salzburg, 1999 Geospatial analysis of contaminated sediments, urban change detection, remote sensing, GIS
- Larry Fullerton, M.A., York (Canada), 1970 Demography, recreation
- Sutama Ghosh, Ph.D., York (Canada), 2006 Immigration and settlement, transnationalism, race and racism
- Tony Hernandez, Ph.D., Manchester, 1998 GIS, marketing geography, geodemographics, commercial activity
- Hersch Jacobs, Ph.D., Toronto, 1976 Geography of food, rural, analysis of risk
- Peter Kedron, Ph.D., Buffalo (SUNY), 2012 Economic and urban geography, spatial analysis, GIScience
- Susan Laskin, M.A., Toronto, 1979 geography of Canada, cartography, GIS, distance education
- Claire Oswald, Ph.D, Toronto, 2011 Physical geography, watershed hydrology and biogeochemistry, watershed ecosystem science and management
- Andrew Millward, Ph.D., Waterloo, 2004 urban forestry and disturbance ecology, applications of remote sensing and spatial data handling
- Claus Rinner, Ph.D., Bonn, 1999 GIS, cartographic visualization, web mapping, spatial decision support systems (SDSS)
- Richard Shaker, PhD, Wisconsin, 2011 Biogeography, conservation of natural resources; environmental planning & policy, GIS, physical geography
- Stephen Swales, M.A., Calgary, 1982 land use development and planning, GIS
- Lu Wang, Ph.D., York (Canada), 2004 medical geography, immigrant health, economic geography, consumption and retailing, mixed-method approaches
- Shuguang Wang, Ph.D., Alberta, 1994 geography of retailing, ethnic economy, immigrant settlement patterns, China

UNIVERSITY OF GUELPH

- DEPARTMENT OF GEOGRAPHY
- **DATE FOUNDED: 1966**

GRADUATE PROGRAM FOUNDED: 1968

- DEGREES OFFERED: BA, BSc, BSc (Env), MA, MSc, PhD
- GRANTED 9/31/13 to 8/31/14: 97 Bachelors, 15 Masters; 1 PhD
- STUDENTS IN RESIDENCE: 240 Majors, 41 Masters, 18 PhD

NOT IN RESIDENCE: 2 PhD, 1 Masters

- CHAIR: Benjamin Bradshaw
- 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 \$ \$19,000 in Semesters 1 to 3 and \$11,220 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, Niagara Escarpment
- Aaron A. Berg, PhD, California, 2003, Professor physical geography, hydrology and climate
- Benjamin E. Bradshaw, PhD, Guelph, 1999, Associate Professor and Chair — environmental governance
- Jaclyn Cockburn, PhD, Queens, 2008, Assistant Professor sedimentary process and climate change
- Ze'ev Gedalof, PhD, Washington, 2002, Associate Professor physical geography, paleoecology, biogeography, dendrochronology
- Noella J. Gray, PhD, Duke, 2009, Assistant Professor political ecology, resource management, marine conservation
- Evan Fraser, PhD, UBC, 2002, Professor and Canada Research Chair — challenges to global food security in 21st century
- Roberta Hawkins, PhD, Clark, 2011, Assistant Professor environment and development
- Richard G. Kuhn, PhD, Alberta, 1987, Associate Professor resource management, environmental assessment, nuclear fuel waste disposal
- 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
- Kate Parizeau, PhD, Toronto, 2011, Assistant Professor social context of waste management
- Jennifer Silver, PhD, Simon Fraser, 2010, Assistant Professor political ecology and ocean governance
- John A. Smithers, PhD, Guelph, 1994, Professor and Dean sustainable agriculture, resource management, local food systems
- Wanhong Yang, PhD, Illinois, 2000, Associate 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 Keddie, PhD, Waterloo, 1976, Professor agricultural geography, sustainable rural community, social geography
- Reid D. Kreutzwiser, 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 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, Ph.D., Montreal, 2008, Associate Professor gentrification and urban revitalization, urban morphology, history and theories of the city
- Marc Brosseau, Ph.D., Paris IV, 1992, Full Professor urban and cultural geography, history of geographical thought, geography and literature interface
- Huhua. Cao, Ph.D., Laval, 1998, Full Professor geomatics, urban and regional geography, spatial analysis, Chinese metropolitan areas
- Luke Copland, Ph.D., Alberta, 2001, Associate Professor climate change, cold regions, glaciology, geomatics
- *Eric Crighton, Ph.D. 2005, Associate Professor* environmental health, health geography, spatio-temporal analysis of illness
- Jackie Dawson, Ph.D., Waterloo, 2009, Assistant Professor environmental change, adaptation, resilience, marine governance, Arctic shipping
- Konrad Gajewski, Ph.D., Wisconsin, 1983, Full Professor biogeography, climatology, environmental data analysis, climate change and impacts, Quaternary studies
- Anne Gilbert, Ph.D., Ottawa, 1985, Full Professor social and cultural geography, regional geography
- Denis Lacelle, Ph.D., Ottawa, 2006, Assistant Professor cold regions, permafrost, ground ice, stable isotope geochemistry, climate change
- Bernard Lauriol, Ph.D., Montreal, 1981, Full Professor stratigraphy and Quaternary geomorphology
- Antoni Lewkowicz, Ph.D., Ottawa, 1981, Full Professor permafrost geomorphology and hydrology, Arctic region, impacts of climatic change
- Brenda Macdougal, Ph.D., Saskatchewan, 2005, Associate Professor — Metis history and culture, landscape and memory, digital research, historical processes of identity formation
- Brian K. Ray, Ph.D., Queen's, 1992, Associate Professor immigrant integration, immigrant housing, immigrant Women and Social Networks, Social Justice
- Marc Saner, Ph.D., Switzerland, 1991 Associate Professor Environmental ethics, governance and ethics of emerging technologies, risk management and risk governance, interface between science and policy
- Michael C. Sawada, Ph.D., Ottawa, 2001, Full Professor GIS, spatial analysis, continental-scale paleoenvironmental change
- Luisa Veronis, Ph.D., Toronto, 2006, Associate Professor transnationalism, citizenship, immigrant communities and identities, Latin Americans in Canada, neo-liberal governance, the nonprofit sector
- Andre Viau, Ph.D., Ottawa, 2003, Associate Professor climatology, climate system history and dynamics, abrupt climate change
- Sonia Wesche, Ph.D., Wilfrid Laurier, 2009, Assistant Professor environmental change, vulnerability and adaptation, climate change, food security, aboriginal health

EMERITI FACULTY:

- Hugh French, Ph.D., Southampton, 1967 permafrost geomorphology, Arctic
- Peter Johnson, Ph.D., Leeds, 1969 geomorphology, Yukon Territory
- Léon Ploegaerts, Ph.D., Montreal, 1975 urban and regional planning, urban morphology
- Denis A. St-Onge, D.Sc., Louvain, 1962, Ph.D. (Hon. Causa, Manitoba) — geomorphology, Quaternary geology, Arctic
- Barry Wellar, Ph.D., Northwestern, 1969 urban and regional development, public policy analysis, transportation

ADJUNCT PROFESSORS:

David Burgess, Ph.D. — Arctic glaciology

Laurence Gray, Ph.D. — remote sensing, ice dynamics Jeff Harris, Ph.D. — remote sensing Stephen Howell, Ph.D. — Arctic sea ice Robert McLeman, Ph.D. — climate change impacts Elena Ponomarenko, Ph.D. — soil science Sharon Smith, Ph.D. — permafrost

UNIVERSITY OF TORONTO

DEPARTMENT OF GEOGRAPHY AND PROGRAM IN PLANNING

DATE FOUNDED: 1935

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D. Geography; M.Sc. Planning; Ph.D. Planning

GRANTED 9/1/13 - 8/31/14: 666 Bachelors, 53 Masters, 13 Ph.D.

STUDENTS IN RESIDENCE: 63 Masters, 92 Ph.D. NOT IN RESIDENCE: N/A

CHAIR AND GRADUATE CHAIR: Virginia Maclaren ADMINISTRATIVE ASST: Yvonne Kenny

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Graduate or Undergraduate Program Administrator, Department of Geography and Program in 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 Email: 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 collaboratory, a GIS and cartography office, and an urban design lab.

ACADEMIC PLAN, ADMISSION REOUIREMENTS, 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 \$15,000 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 \$3,000, 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, Assistant 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
- George B. Arhonditsis, Ph.D., University of the Aegean, Greece, 1998, Associate 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
- Alana Boland, Ph.D., 2001, Washington, 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, Senior Lecturer Geographic IS, remote sensing, fluvial geomorphology
- 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, Associate 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, PhD., 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, glaviomarine, human impact, climate change, floodplain geoarchaeology
- Pierre Desrochers, Ph.D., Universite de Montreal, 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, PhD., 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.
- 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
- Meric S. Gertler, F.R.S.C.; Ph.D., Harvard, 1983, Goldring Professor of Canadian Studies — 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
- 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, Assistant Professor agroforestry, agroecology, soil fertility, plant nutrition, localized management knowledge, ecological services, social-ecological systems, social networks, cognitive mapping

- Thembela Kepe, Ph.D., Western Cape, South Africa, 2002, Associate 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
- Igor Lehnherr, 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, Senior Lecturer regional geography of North America, colonial North America and the Caribbean, population dynamics, retail analysis
- 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
- Deborah McGregor, Ph.D., Toronto, 2000, Associate Professor traditional environmental knowledge, First Nations and land/environment issues, Aboriginal environmental and resource management, Aboriginal health/education, sustainable forest management, water management and first nations
- 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
- 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
- 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, Senior Lecturer environmental issues in developing countries
- Andrea Olive, Ph.D., Purdue, 2009, Assistant Professor environmental policy, conservation, private property, Arctic politics, indigenous politics, Canada-US relations
- 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
- Raj Narayanareddy, Ph.D., Minnesota, Assistant Professor geographies of waste and labour, urban political ecology, global urbanism, cities of the global South, South Asia
- Vincent B. Robinson, Ph.D., Kent State, 1978, Associate Professor geographic information science, ecological modeling, spatial analysis

- 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, Associate 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
- 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
- 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, PhD., 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
- Gunter H. K. Gad, Ph.D., Toronto, 1976, Professor Emeritus office location and business linkages, urban historical
- 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
- 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
- Joseph B.R. Whitney, Ph.D., Chicago, 1979 Professor Emeritus China's environment, waste management, energy systems in developing countries

UNIVERSITY OF WATERLOO

FOR 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., and Ph.D., PhD-Water
- GRANTED 9/1/13-8/31/14: 166 Bachelors, 23 Masters, 9 Ph.D.

STUDENTS IN RESIDENCE: 760

Bachelors; 91Masters, 46 Ph.D.

NOT IN RESIDENCE: 25 Masters, 8 Ph.D.

CHAIR: Peter Deadman

DEPARTMENT ADMINISTRATIVE MANAGER: Susie Castela

CATALOG AND FURTHER INFORMATION WRITE TO:

Associate Chair Undergraduate Studies, Geography Program: Dr. Merrin Macrae. E-mail: mmacrae@uwaterloo.ca or Associate Chair Undergraduate Studies, Aviation and Geomatics Programs: Dr. Ian E-mail: mckenzie@uwaterloo.ca or Associate McKenzie Chair Studies: Graduate Dr. Brent Doberstein. E-mail: bdoberst@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 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. Cooperative 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 Plan is broad in scope, but students may concentrate their courses in one or more of the major areas of specialization: Earth System Science; Geomatics and Development and Environment. Students may also develop Joint Honours Plans to suit their particular interests. The three-year General Geography 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 in the joint program who are registered at the University of Waterloo. The total number of students registered in the joint program is 109 Masters, 68 Ph.D. in residence and 26 Masters, 17 Ph.D. not in residence.

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: http://geograd.uwaterloo.ca/

FACULTY:

- Jean Andrey, Ph.D., Waterloo, 1989, Professor transportation, climatic hazards
- Sarah Burch, Ph.D., British Columbia, 2009, Assistant Professor governing responses to climate change (both adaptation and mitigation) in urban spaces.
- Judith Cukier, Ph.D., Waterloo, 1996, Associate Professor tourism, gender and development, marine parks, Southeast Asia, Caribbean
- 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
- Claude Duguay, PhD., Waterloo, 1989, Professor climate impacts on the cryosphere, numerical modelling and remote sensing of lake ice, climate-lake interactions
- Susan Elliott, Ph.D., 1992, McMaster University, 1992, Professor environment and health, health geography, environmental science, urban social geography and planning, research methods

- Christopher Fletcher, Ph.D., London, 2005, Assistant Professor using numerical models to investigate large-scale climate processes and climate change
- 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.
- 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
- 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
- Bruce Mitchell, Ph.D., Liverpool, 1969, Professor natural resources, water management
- 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
- 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, Assistant Professor Center of land use, land management, and the carbon cycle. Agentbased 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
- 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
- Johanna Wandel, Ph.D., Guelph, 2006, Associate Professor vulnerability, community based assessment, adaptation and climate change.

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
- Goretty Dias, Ph.D., Guelph, 1998, Assistant Professor life cycle assessment (LCA) and social and environmental issues in supply chains
- 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
- Bryan Grimwood, Ph.D., Carleton, 2012, Assistant Professor Geographies of nature-based travel, tourism, outdoor recreation, and leisure; Tourism ethics and environmental responsibility; Arctic tourism, livelihoods, and special places; Communitybased participatory research; Experiential education and outdoor learning
- 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
- Jane Law, Ph.D., New Brunswick, 2000, Associate Professor GIS and spatial analysis methodologies and their applications in public health
- Dawn Parker, Ph.D., University of California at Davis, 2000, Associate Professor — Development of integrated socioeconomic and biophysical models of land-use change; Agentbased modeling; Complexity theory; Geographic information systems; Environmental and resource economics
- Vanessa Schweizer, Ph.D., Carnegie Mellon, 2010, Assistant Professor — collective decision making
- Andrea Scott, Ph.D., Waterloo, 2008, Assistant Professor using data to improve model predictions
- Bryan Tolson, Ph.D., Cornell, 2005, Associate Professor Advanced methods for environmental simulation model development and subsequent use in environmental decision-making; Environmental simulation model calibration, optimization, sensitivity and uncertainty analysis, particularly methods for computationally expensive simulation models.

THE UNIVERSITY OF WESTERN ONTARIO

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1938

GRADUATE PROGRAM FOUNDED: 1946

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

GRANTED 9/1/13-8/31/14: 17 Bachelors, 37 Honors (Total), 8 Masters, 7 Ph.D.

STUDENTS IN RESIDENCE: 101 - 4-Yr B.A., 10 - 3-Yr B.A., 88 Honors, 31 Masters, 46 Ph.D.

NOT IN RESIDENCE: 0

CHAIR: Dr. Dan Shrubsole

DEPARTMENT ADMINISTRATIVE OFFICER: Barbara Thomas

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Graduate Administrator, Department of Geography, The University of Western Ontario, London, Ontario N6A 5C2— Telephone: (519) 661-2111, ext. 85033—Fax: (519) 661-3750— Page: http://www.geography.uwo.ca

PROGRAMS AND RESEARCH FACILITIES:

Degree Programs (M.A., M.Sc. and Ph.D.): The program emphasizes training in research leading to Masters or Ph.D. 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 occupation. All students take a seminar course in geographical methodology and in research design and communication. Both Masters and Ph.D. students complete an approved research proposal prior to registering for the thesis. Ph.D. 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 earth surface processes in hydrology, geomorphology, climatology, river ecology and environmental change using instrumented field sites, terrain analysis, remote sensing and GIS. Current projects include urban heat island, water quality in rivers, and fluvial sediment transport. Environmental change studies include: paleoenvironmental reconstructions using dendrochronology and dendrogeomorphology, paleolimnology and environmental archeology, the response of river and vegetation systems to environmental change, and modified climates in urban areas. Regional emphases include the Rocky Mountains, Canadian High Arctic, southwestern Ontario and the Boreal Plains.

Geographic Information Science (GIS): Theoretical and applied studies of geographic information systems (GIS), remote sensing and cartography. Interests in GIS include: spatial modelling and visualization, database structures and pattern recognition. Application of GIS to: urban land use, locational analysis, glacier dynamics, and landscape. Planetary cartography and mapping of asteroids. Applications of remote sensing to resource management, cartography, and earth surface processes (including vegetation patterns, 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: recent 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, 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.

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 and analysis of environmental processes and paleoenvironments. In addition, state-ofthe-art electronic surveying equipment (motorised and conventional total stations, high resolution differential GPS, electronic level) image-based (remote sensing complement and digital and photogrammetry) terrain acquisition analysis software. Computing areas are available for all students. Study space is provided for each graduate student.

M.Sc. and Ph.D. programs in Geography (Environment and Sustainability) are offered in conjunction with departments in the Faculty of Science and Faculty of Engineering.

M.A. and Ph.D. programs in Geography (Migration and Ethnic Relations) are offered in conjunction with Departments in the Faculties of Social Science, and Arts and Humanities.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Master's applicants must have either an Honors Bachelor's degree or equivalent in Geography with at least a B+ average from a recognized university and have completed course work to the satisfaction of the department. Ph.D. 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. Write to the Graduate Chair for details of current policy.

FACULTY:

- Godwin Arku, Ph.D., McMaster, 2005, Associate Professor urban development
- Peter E. Ashmore, Ph.D., Alberta, 1985, Professor fluvial geomorphology
- Jamie Baxter, Ph.D., McMaster, 1997, Associate Professor hazards and health geography
- Brian Branfireun, Ph.D., McGill 2000, Associate 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
- Belinda Dodson, Ph.D., Cambridge, 1990, Associate Professor development, gender, Southern Africa
- Rick Fehr, Ph.D., York, 2010, Assistant Professor historical relations with First Nations and Canadians
- Jason Gilliland, Ph.D., McGill University, 2001, Professor urban development, children's health
- Milford B. Green, Ph.D., Ohio State, 1980, Professor economic, transportation

- 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
- Isaac Luginaah, Ph.D., McMaster, 2002, Professor medical, environment health relationships; Canada Research Chair
- Jacek Malczewski, Ph.D., Poland, 1987, Professor economic
- Gordon McBean, Ph.D., British Columbia, 1970, Professor atmospheric science
- Diana Mok, Ph.D., Toronto, 2002, Associate Professor urban, economic, GIS
- Desmond Moser, Ph.D., Queens 1993, Associate Professor (with Earth Sciences) — tectonics, geochronology
- Katrina Moser, Ph.D., McMaster, 1997, Associate Professor geology, paleolimnology, biogeography
- Micha Pazner, Ph.D., California, 1986, Associate Professor geographic information systems
- Chantelle Richmond, Ph.D., McGill, 2007, Associate Professor aboriginal health, environmental health. CIHR Early Researcher.
- Dan Shrubsole, Ph.D., Waterloo, 1989, Professor and Chair resources management
- C. Christopher Smart, Ph.D., McMaster, 1983, Professor hydrology, geomorphology
- L. Graham Smith, Ph.D., Waterloo, 1982, Associate Professor resources management
- Philip J. Stooke, Ph.D., Victoria, 1988, Associate Professor cartography, space exploration
- 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 9/1/12-8/1/13: 28 Masters, 12 Ph.D. STUDENTS IN RESIDENCE: 109 Masters, 68 Ph.D. NOT IN RESIDENCE: 26 Masters, 17 Ph.D. DIRECTOR: Dr. Johanna Wandel, University of Waterloo GRADUATE PROGRAM ADMINISTRATOR: Alan Anthony, University of Waterloo

FOR FURTHER INFORMATION WRITE TO: The Director's Office, University of Waterloo, Department of Geography & Environmental Management, 200 University Avenue West, Waterloo, Ontario N2L 3G1. Telephone (519) 888-4567, ext. 32730, aanthony@uwaterloo.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
- Jennifer Baltzer, Ph.D., Toronto, 2005, Associate Professor functional basis of plant species distributions, forest ecosystems including tropical, temperate and boreal forests
- Judy Bates, Ph.D., York, 1997, Associate Professor local labour markets, gender, self-employment
- Alison Blay-Palmer, Ph.D., Waterloo, 2003, Assistant 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, Associate Professor coastal geomorphology, physical geography
- Barbara Carmichael, Ph.D., Victoria, 1991, Professor tourism, recreation, economic development
- Judith Cukier, Ph.D., Waterloo, 1996, Associate Professor tourism, gender and development marine parks, Southease Asia, Caribbean
- Peter Deadman, Ph.D., Arizona, 1997, Associate Professor GIS, resource and environmental management
- Jody F. Decker, Ph.D., 1989, York, Associate Professor native issues, medical, cultural, historical, women s and environmental health issues
- 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, Associate Professor urban transportation geography GIS, energy efficiency
- 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, landocean-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 culturalhistorical 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.
- Richard Kelly, Ph.D., Bristol, 1995, Professor remote sensing of the cryosphere, especially snow and ice environments
- Ellsworth LeDrew, Ph.D., Colorado, 1976, University Professor climatology, remote sensing
- 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
- Robert McLeman, PhD, Guelph, 2005, Associate Professor human dimensions of environmental change
- Robert Milne, Ph.D., Wilfrid Laurier, 2003, Assistant Professor landscape ecology, environmental monitoring, ecotourism
- Bruce Mitchell, Ph.D., Liverpool, 1969, Professor natural resources, water management
- Clare Mitchell, Ph.D., Waterloo, 1986, Associate Professor rural, local economic development, retail
- Alison Mountz, Ph.D., British Columbia, 2003, Associate Professor Migration and political geography, struggles over border enforcement, asylum, and detention.
- Brenda Murphy, Ph.D., Guelph, 2001, Associate Professor Community vulnerability and capacity in the management of both natural and technological risks and disasters
- 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
- 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, Assistant 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. Agentbased 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 Slocombe, 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, Associate Professor — immigration, population
- Johanna Wandel, Ph.D., Guelph, 2006, Associate Professor Human dimensions of global change, Adaptation to climate change, vulnerability, drought management, agriculture, climate change
- Brent Wolfe, Ph.D., Waterloo, 1997, Associate Professor isotope hydrology and paleohydrology, paleolimnology, climate change

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
- Goretty Dias, Ph.D., Guelph, 1998, Assistant Professor life cycle assessment (LCA) and social and environmental issues in supply chains
- 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

- Bryan Grimwood, Ph.D., Carleton, 2012, Assistant Professor Geographies of nature-based travel, tourism, outdoor recreation, and leisure; Tourism ethics and environmental responsibility; Arctic tourism, livelihoods, and special places; Communitybased participatory research; Experiential education and outdoor learning
- 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
- Jane Law, Ph.D., New Brunswick, 2000, Associate Professor GIS and spatial analysis methodologies and their applications in public health
- Dawn Parker, Ph.D., University of California at Davis, 2000, Associate Professor — Development of integrated socioeconomic and biophysical models of land-use change; Agentbased modeling; Complexity theory; Geographic information systems; Environmental and resource economics
- Vanessa Schweizer, Ph.D., Carnegie Mellon, 2010, Assistant Professor — collective decision making
- Andrea Scott, Ph.D., Waterloo, 2008, Assistant Professor using data to improve model predictions
- Bryan Tolson, Ph.D., Cornell, 2005, Associate Professor Advanced methods for environmental simulation model development and subsequent use in environmental decision-making; Environmental simulation model calibration, optimization, sensitivity and uncertainty analysis, particularly methods for computationally expensive simulation models.

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 9/1/12-8/31/13: 94 Bachelors, 7 Masters, 3 PhD (WLU only)
- STUDENTS IN RESIDENCE: 287 Majors, 29 Masters, 24 PhD (WLU only) (for total Masters and PhD numbers, refer to Waterloo-Laurier Graduate Program in Geography section)

CHAIR: Michael English

DEPARTMENT ADMINISTRATIVE ASST: Doreen Dassen

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Undergraduate Officers: Dr. J. Hamilton (Geography) or Dr. R. McLeman (Environmental Studies); Graduate Coordinator: Dr. B. Wolfe. 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 three four-year honours BA and three 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, 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:

- Judy Bates, Ph.D., York, 1997, Associate Professor local labour markets, gender, self-employment
- Alison Blay-Palmer, PhD., Waterloo, 2003, Associate Professor sustainable food systems and communities, green economic development
- Mary-Louise Byrne, Ph.D., McMaster, 1991, P.Geo, 2004, Associate Professor — coastal geomorphology, physical geography
- Barbara Carmichael, Ph.D., Victoria, 1991, Professor tourism, recreation, economic development, entrepreneurship
- Simon Dalby, Ph.D., Simon Fraser, 1988, Professor anthropocene geopolitics, climate change, environmental security
- Jody F. Decker, Ph.D., 1989, York, Associate Professor Native issues, medical, cultural, historical, women's and environmental health issues
- 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, subArctic 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
- Robert McLeman, Ph.D., Guelph, 2005, Associate Professor environmental migration, climate change adaptation
- Robert J. Milne, PhD, Wilfrid Laurier University, 2003, Associate Professor — landscape ecology, wildlife management, environmental monitoring, vegetation dynamics and geomorphic processes
- 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
- Bob G. Sharpe, Ph.D., York, 1990, Associate Professor social, economic, development, GIS, geographic education
- D. Scott Slocombe, Ph.D., Waterloo, 1990, Professor resource and environmental management, systems approaches, sustainability, ecosystem and integrated management, management assessment
- Jason Venkiteswaran, PhD, Waterloo, 2009, Assistant 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 9/1/13-8/31/14: 14 Masters, 6 Ph.D. STUDENTS IN RESIDENCE: 485 Majors (Undergraduate), 34 Masters, 36 Ph.D. NOT IN RESIDENCE: 11 Masters, 5 Ph.D. GRADUATE DIRECTOR: R. Das DEPARTMENT CHAIR: S. Tufts DEPARTMENT ADMINISTRATIVE ASST: K.

Cunningham

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Graduate: Raju Das, Director, Graduate Program in Geography; Undergraduate: Tarmo Remmel, 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 statesociety relations; social capital; social movements; agroglobalization; 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-Wootten, 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
- 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 soceity, politics and the city; comparative urbanregional politics and planning; urban social movements and restructuring; colonization, racialization and urbanization; suburbanization, territorial relations and regional planning; public housing: gentrification, privitization and redevelopment
- 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
- Robert Murdie, Ph.D., University of Chicago, 1968 urban social geography, geography of housing, immigrant settlement in Canadian cities
- 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; urbanpolitical 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 multidimensional measurement and comparison of spatial patterns; spatial accuracy assessment; forest land cover change; postdisturbance vegetation recovery; open-source GIS/RS algorithm development
- André Robert, Ph.D., Cambridge, 1988, Associate Professor form and process in rivers; experimental fluvial studies
- Robin Roth, Ph.D., Clark, 2004, Associate Professor political ecology; environmental conservation and conflict; livelihood transitions in Southeast Asia; co-management institutions; gender and environment; forestry/land use
- 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/nonnative relations; immigration and multiculturalism; western Canada; feminist geography; historical geography; use of nontraditional 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, postcoloniality

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 9/1/13-5/30/14: 138 Bachelors, 1 Diplomas, 26 Masters
- STUDENTS IN RESIDENCE: 952 Specializations and Majors, 123 Masters, 13 Diplomas
- NOT IN RESIDENCE: N/A

CHAIR: Monica Mulrennan

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 area 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. 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 Applicants are also encouraged to apply for external available. scholarships from SSHRC, NSERC, FRQNT, and FRQSC.

FACULTY:

- Aiken, S. Robert, Emeritus Professor Tropical deforestation, Cultural geography, Developing country environmental issues
- Anderson, Jacqueline M., Emeritus Associate Professor Cartographic visualization and design, Map user abilities, Map skills education
- Biron, Pascale, Professor and Graduate Program Director (M.Sc.) 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 Mapping narratives, Cinematic cartography, Geomedia and the geoweb
- Collard, Rosemary, Assistant Professor Critical geographies, Political ecology and economic geography, Wildlife trade and management
- De la Llata, Sylvano, Assistant Professor Public space, Participatory community planning, Urban design, Social movements and the right to the city, Urban sociology, Opensource 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 Race, nation and markets in Cold War Guatemala, Neoliberal land policies, Critiques of conservation and development

- Jaeger, Jochen, Associate Professor and Graduate Program Director (MEnv) — Landscape ecology, including road ecology, Quantification and assessment of landscape structure and landscape change, Urban sprawl, Ecological modelling, Impact assessment
- Matthews, Damon, Associate Professor Climate change, Global climate modeling
- Mulrennan, Monica E., Associate Professor and Chair Indigenous resource management, Community-based conservation, Local adaptation to environmental change, Protected areas
- Nash, Alan E., Professor Cultural geography, Restaurant in Montreal, Gravestones in Iceland and the Caribbean
- Patterson, Judith, Associate Professor Geology of modern environments, Impact of fossil fuel combustion on the atmosphere, Environmental impact assessment in the transportation sector
- Patterson, Zachary, Associate Professor Modeling of transportation, Land-use and their linkages
- Rantisi, Norma, Professor Industrial restructuring, Social economy, Workforce development
- Roy, André, Professor and Dean of Arts and Science Hydrogeomorphology, Fluvial dynamics
- Rutland, Ted, Assistant Professor History of urban planning, housing, and policing, Race and racialization, Urban political economy
- Slack, Brian, Distinguished Emeritus Professor Transport geography, Maritime transportation, Container shipping, Port planning, Intermodal transportation
- 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

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 9/1/13-8/31/14: 134 Bachelors, 9 Masters, 3 Ph.D.
- STUDENTS IN RESIDENCE: 25 Honors, 196 Majors, 187 Minors, 63 Masters, 35 Ph.D.

CHAIR: Nigel Roulet

DEPARTMENT GRADUATE COORDINATOR: Elisa H. David

FOR CATALOGUE AND FURTHER INFORMATION WRITETO:GraduateAffairs,DepartmentofGeography, McGill University, 805SherbrookeStreetWest, Montreal, Quebec, Canada H3A2K6.Telephone (514) 398-4111.Fax (514) 398-7437.E-mail:grad@geog.mcgill.ca.www.geog.mcgill.ca.website:

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), Bellaris (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:

- Geraldine Akman, Ph.D., McGill, 1993, Faculty Lecturer peasant economies, Haiti, West Africa
- Lea Berrang Ford, Ph.D., Guelph, 2006, Assistant Professor socioecological determinants of health
- 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
- James Ford, Ph.D., Guelph, 2006, Assistant Professor integration of social, physical, and health sciences, and indigenous knowledge in climate change vulnerability & adaptation research
- Benjamin Forest, Ph.D., UCLA, 1997, Associate Professor political representation and redistricting, racial, ethnic, and national identity
- Margaret Kalácska, Ph.D., Alberta, 2006, Assistant 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, Associate Professor — fluvial geomorphology
- Bernhard Lehner, Ph.D., Kassel, 2005, Associate Professor largescale modeling of the terrestrial water cycle
- Kevin Manaugh, Ph.D., McGill 2013, Assistant Professor sustainable transportation, spatial justice, decision making processes, GIS
- 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, Assistant 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
- Navin Ramankutty, Ph.D., Wisconsin, 2000, Associate Professor land use and global environmental change
- Jeanine Rhemtulla, Ph.D., Wisconsin, 2007, Assistant Professor landscape ecology, social-ecological systems, historical ecology, spatial analysis, and GIS
- Brian Robinson, Ph.D., Wisconsin-Madison, 2011, Assistant Professor — livelihoods, environment and development
- Nancy Ross, Ph.D., McMaster, 1997, Associate 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, Associate 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 6/1/14-5/31/15: 18 Bachelors, 16 Masters, 9 Ph.D.
- STUDENTS IN RESIDENCE: 15 Majors, 16 Masters, 4 Ph.D.

STUDENTS NOT IN RESIDENCE: 28 Masters, 4 Ph.D. CHAIR: Patricia Martin

DEPARTMENT ADMINISTRATIVE ASST: Sophie Banville

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Annie Demers, Téléphone (514) 343-8052 or Fanny Duval, Téléphone (514) 343-6111 poste 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, two areas of specialization are available to the students: human environment, and physical environment. The technical courses (quantitative, GIS, cartography, remote sensing,

modeling) are embedded within each specialization and are aimed at problem solving. The bachelor's program is geared towards the training of students so they can function within a research or an industry environment. At the graduate level, the student is integrated as quickly as possible within one of the research teams of the department. Each team is composed of one or more professors and of a group of graduate students. Exchanges among its members and different teams are emphasized. Research is currently conducted on the relations between health and the environment, on the dynamics of large metropolitan areas, on the dynamics of natural geosystems, and on geographical techniques. Several of these activities involved experiments and the maintenance of research stations in the field. Our graduate programs aim at developing a specialization within a research environment. Several short programs are available in the fields of GIS, spatial analysis and applied geography. We also offer a M.Sc. degree with internships in the work place.

The department is well supported by external funding agencies, host three Canada Research chairs (in Asian Research, fluvial dynamics and Ethnoecology and biodiversity conservation) and has several laboratories of very high caliber (e.g. palynology, aerobiology, GIS cartography, pedology, fluvial geomorphology, numerical modeling, geomorphological engineering and remote sensing). The geography library and the map library are located within the premises and offer an excellent collection of periodicals, monographs, and maps. Access to a departmental computer lab is provided to all students for both research and teaching purposes. The Department of Geography has developed strong ties with several research centers within the University (transportation and networks, Asia studies and Mexican studies) and with other universities.

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 first program is oriented towards research skills and involves fewer courses (minimum nine credits) with respect to research and thesis credits. The second program aims at developing professional skills and it requires that the student completes 18 credits of coursework (some courses may be taken outside the Department) and two specialized reports. Admission requires that the student has completed a Bachelor's degree in geography or in a related field with a GPA of 3.0. The Ph.D. program is designed to allow the student to gain proficiency in two or three subfields and to conduct research on an innovative topic. The coursework (12 credits) is tailored to the specific needs of the candidate and is completed within the first year after which the candidate devotes his (her) time to research. One goal of the program is to train students in teaching and in publishing research papers. Admission requirements include a Master's degree in geography in a/or related field and a high potential for research. Financial assistance is available through university and departmental fellowships, grants that support each research team and teaching/research assistantships offered by the department.

FACULTY:

- Pierre André, Ph.D., Montréal, 1985, Associate Professor environmental studies
- Nicolas Bélanger, Ph.D., Montreal, 2000, Adjunct Professor environmental sciences
- Olivier Blarquez, Ph.D., France, 2011, Assistant Professor Biogeoscience
- Christopher Bryant, Ph.D., London School of Economics, 1970, Professor — urban systems, regional development, spatial organization, rural land use
- Jeffrey A. Cardille, Ph.D., Wisconsin, 2002, Adjunct Professor landscape ecology and modelling
- François Cavayas, Ph.D., Laval, 1983, Professor remote sensing, geographic information systems
- Claude Comtois, Ph.D., Hong Kong, 1980, Professor transport, China

- Paul Comtois, Ph.D., Laval, 1982, Professor aerobiology, palynology, aeromycology
- François Courchesne, Ph.D., McGill, 1988, Professor soil science, biogeochemistry
- De Koninck, Ph.D., Singapour, 1970, Professor Canada Research Chair in Asian Studies. South-East Asia, Agriculture and environment
- Daniel Fortier Ph.D., Laval, 2005, Associate Professor geomorphology, environmental changes
- Jan Franssen, Ph.D., Québec, 2012, Assistant Professor Hydrology
- Kathryn Furlong, Ph.D., British Columbia, 2007, Assistant Professor — Atmospheric Environment
- François Girard, Ph.D., Quebec, 2008, Assistant Professor geomatics
- Nicole Gombay, Ph.D., Kingston, 2003, Associate Professor economic geography
- Thora Herrmann, D. Phil, Oxford, 2004, Associate Professor Canada research chair in Ethnoecology and biodiversity conservation, geography of development, gender.
- Violaine Jolivet, Ph.D., Paris, 2010, Assistant Professor urban geography
- Claude Marois, Ph.D., Laval, 1980, Professor population, spatial analysis
- Patricia Martin, Ph.D., Colorado, 1997, Associate Professor Geography of development, Latin America
- Lael Parrott, Ph.D., McGill, 2000, Adjunct Professor complex system modeling
- Liliana Perez, Ph.D., Burnaby, 2011, Assistant Professor geomatics
- André G. Roy, Ph.D., SUNY-Buffalo, 1982, Adjunct Professor Fluvial geomorphology, quantitative techniques
- Brian Slack, Ph.D., McGill, 1972, Adjunct Professor transportation geography
- Oliver Sonnentag, Ph.D., Toronto, 2013, Assistant Professor climatology
- Julie Talbot, Ph.D., Montreal, 2010, Assistant Professor climatology
- Rémy Tremblay, Ph.D., Ottawa, 2000, Adjunct Professor social and cultural geography

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 - 4°1406 - 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 Secretaria 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 nuclean 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; 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 neodesarrollista, 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 hídricoenergética del territorio, produciendo informes técnicos y de investigación aplicada, ponencias, producción cartográfica, etc.

Grupo de Investigación y desarrollo en la Enseñanza de la Geografía – Indegeo 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, consituye, 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": //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 vitual "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. MARINA MIRAGLIA

PARA PEDIR UN CATOLOGO Y MÁS INFORMACIONE, FAVOR DE ESCRIBIE A: Lic. Marina Miraglia 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_geografic a/1/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. Multiusuarios. 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. ArcIms.

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. Teletedetección. Espectro electromagnético. Resolución espacial. Resolución espectral. Interpretación visual de imágenes satelitarías. Interpretación digital de imágenes satelitarías.

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 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.
- CANTIDAD DE ALUMNOS DE GRADO ENTRE
- TODAS LAS CARRERAS DE GRADO: 740 Alumnos CANTIDAD DE ALUMNOS DE DOCTORADO y de MAESTRIA: 60 Alumnos
- DIRECTORA DEL DEPARTAMENTO: Lic. Silvia Grippo
- SECRETARIA ACADÉMICA DEL DEPARTAMENTO: Mg. Stella Visciarelli
- DIRECTOR DEL PROGRAMA DE POSGRADO PARA DOCTORADO: Dr. Roberto Bustos Cara
- DIRECTORA DEL PROGRAMA DE POSGRADO PARA MAESTRÍA: Dra. Alicia Campo
- SECRETARIA DE EXTENSIÓN Y DE POSGRADO: Mg. Graciela M. Benedetti

PARA MÁS INFORMACIONES, FAVOR DE ESCRIBIR A: MG. GRACIELA M. BENEDETTI. DEPARTAMENTO DE GEOGRAFIA Y TURISMO-UNSCalle: 12 de Octubre y San Juan-4to piso- Ciudad Bahía Blanca, País: Argentina.Teléfono y fax: 54-291-4595144. Mail: posgradodgyt@uns.edu.ar o gbenedet@criba.edu.ar -Página de la Universidad: www.uns.edu.ar Página del Programa de Posgrado: www.geografiaposgrado.wordpress.com

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. Por ejemplo: Centro de Documentación y Producción Cartográfica, Gabinete de Computación con programas específicos de SIG y Teledetección, 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, Congresos.

PROGRAMA DE POSGRADO NO ESTRUCTURADO: Los alumnosseleccionan las temáticas de los cursos de posgrado para obtener los 100 créditos para el Doctorado y los 80 créditos para la

Maestría. Los cursos de posgrado se organizan cada año según los temas de interés y la participación de docents que nos visitan de otros lugares de la Argentina y del extranjero. En general las temáticas que se abordan en los cursos son: geografía urbana, geografía rural, geografía económica y política, medioambiente, sistemas de producción, análisis espacial con SIG y Teledetección, geografía física, climatología y geomorfología, cartografía general y temática, diseño de tesis, geografía política, desarrollo territorial, el turismo, técnicas cualitativas y cuantitativas, entre otros.

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 iniciativas de naturaleza 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.

PLAN ACADEMICO, REQUISITOS DE ADMISION, 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 posgradodgyt@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
- Bustos, Roberto Nicolas Desarrollo Territorial y Geografía **Regional Argentina**
- Campo, Alicia Maria Geografía Física Campos, Marta Mabel Introducción a la Geografía y Metodología de la Investigación
- Caramelli, Sabrina Maricel Turismo y Organización de los Servicios Turísticos
- Ercolani, Patricia Susana Geografía del Turismo
- Ferrera, Ilda Maria Geografía Regional de Africa y Europa
- Fittipaldi, Rosa Angela Geografía Histórica y Geografía Económica, Política y Social
- Formiga, Nidia E Geografía Urbana y Geografía de la Población
- Garriz, Eduardo Julio Geografía Urbana
- Grippo, Silvia Beatriz Geografía Histórica y Geografía de América Latina
- Jonke, Brenda Laura Turismo y organización de los servicios turísticos
- Lorda, Maria Amalia Didáctica y práctica de la Geografía
- Marenco, Nelida Silvia Teoría del Planeamiento y Geografía Urbana
- Minervino, Mario Roberto Patrimonio Histórico y Cultural
- Monachesi, Alejandra Gestión Ambiental y Metodología de la Investigación Rural
- Pascale, Juan Carlos Planificación Urbana y del Turismo
- Perez, Maria Ines Técnicas y Metodología de la Investigación en Geografía
- Piccolo, Maria Cintia Hidrografía y Oceanografía
- Pizarro, Nora Ester Geografía Regional de Asia y de Am.del Norte
- Rosell, Maria Patricia Geografía Ambiental de la Argentina
- Rubio, Maria Laura Cartografía Automatizada Santarelli, Silvia Técnicas cualitativas y cuantitativas de la Geografía y Metodología de la Investigación
- Sili, Marcelo Enrique Organización y dinámica del espacio rural y Mercosur
- Tonellotto, Sandra --- Geografía Regional Argentina
- Uboldi, Julio Alberto GIS y Teledetección
- Vaquero, Maria Del Carmen Planificación Turística y Geografía de los Recursos Turísticos
- Visciarelli, Stella Maris Geografía Regional de América Latina y Geografía Turística

UNIVERSIDAD NACIONAL DE MAR DEL PLATA

FACULTAD DE HUMANIDADES DEPARTAMENTO DE GEOGRAFÍA

DEFARIAMENTO DE GEOGRAFI

DATE FOUNDED: 1991

DEGREES OFFERED: Profesorado en Geografía, Licenciatura en Geografía

MAJOR: Problemática Territorial Argentina

POINT OF CONTACT: Prof. Titular Ana Maria Liberali, email: geofhum@mdp.edu.ar. Prof. Adjunta: Adriana Martínez. Ayudante de Primera: Ana Laura Berardi.

FOR FURTHER INFORMATION WRITE TO: Facultad de Humanidades – UNMDP Funes humana@mdp.edu.ar. http://www.mdp.edu.ar/. Teléfax: (0223) 475-2277.

PROGRAMS AND RESEARCH FACILITIES: 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 se 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 fisico-natural. Es razón de esto planteamos una división interna de la carrera en las siguientes áreas: Fisco-natural, Social, Instrumental operativa, territorial. Cada una de ellas se constituirá en el territorio natural de discusión y construcción de las propuestas especificas 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.

Objetivos: Que los alumnos determinen la influencia de los procesos socioeconómicos en la organización y apropiación del territorio nacional. Que los alumnos analicen las relaciones centro-periferia y sus consecuencias socioterritoriales sobre el territorio argentino.Que los alumnos apliquen los conceptos analizados al estudio de las regiones Argentinas.

- UNIDAD 1: Análisis Regional. Formación espacial, formación social y formación regional. El sistema internacional. Políticas macroeconómicas e inserción regional.
- UNIDAD 2: Fases de Desarrollo. Proceso de asignación de los recursos. Implicancias socio territoriales de la inserción de la Argentina en el mercado mundial.
- UNIDAD 3: El Territorio Argentino. Límites, fronteras e integración. Aparato productivo. Circuitos comerciales y conectividad. Aspectos demográficos. Sistema regional.
- UNIDAD 4: Región Pampeana. Inserción en el contexto internacional. Análisis socio-económico. Consecuencias político-territoriales. Problemáticas regionales.
- UNIDAD 5: Región del Noroeste Argentino. Inserción en el contexto nacional. Análisis socio económico. Consecuencias político-territoriales. Problemáticas regionales.
- UNIDAD 6: Región del Noreste Argentino. Inserción en el contexto nacional. Análisis socio económico. Consecuencias político-territoriales. Problemáticas regionales.
- UNIDAD 7: Región de Cuyo. Inserción en el contexto nacional. Análisis socioeconómico. Consecuencias político-territoriales. Problemáticas regionales.

 UNIDAD 8: Región de Patagonia. Inserción en el contexto nacional. Análisis socio-económico. Consecuencias políticoterritoriales. Problemáticas regionales.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Se denominan *Becas de Investigación* a los estipendios que, a título de promoción, sin implicancia alguna de relación laboral, se abonan para la formación de recursos humanos en investigación en el ámbito de la Universidad Nacional de Mar del Plata, 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 (2007-2009) 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, peor 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 Hoschschule 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 Responsable: 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, cnálisis espacial multivariante, procesamiento de imágenes de satélite, correcciones geométricas, georeferenciación, correcciones espectrales, composición falso color, clasificación multiespectral 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 Socieda, editada por la Fundación Yocavil

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: En el área de la Geografía, por medio de un trabajo concensuado 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 el 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 . Secrataria: Lic. Noemí López E-mail nlopez@filo.unt.edu.ar.

FACULTY:

- Bolsi, Alfredo S. C., 2007 Ph. D. Universidad Nacional de Tucumá Geografía Histórica, Geografía de la Población y Demografía.
- Würschmidt, Enrique J., 1999 Profesor Universidad Nacional de Tucumán — Geografía Física, Cartografía y Geografía Matemática.

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, IngenieríaGeográfica, Maestría en Geopolítica de los RecursosNaturales, Maestría en Teledetección y SIG ESTUDIANTES ACTUALES: Ingeniería: 422 (2014);

Maestria: 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 esta 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 Gozalves Kreuzer, Docente Emérito, Planificación Territorial, Geografía Urbana y Rural, Geografía Regional
- Msc. Fransisco 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 Viscafe, 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 Morais Rego, Rubens Borba de Morais 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, Ceára, 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 reponsável 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 aperfeicoar do debate científico da Geografia e que se interessam 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 orgãos 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 do 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 sólo 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 fórmas 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, secretario, 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 interessam 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 orgãos 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 Aracajú: 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@yahoogrupos.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 Florianopolis: 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: agbjoaopessoa@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: vicosa@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 económicos

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 INFORMACION 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 tratarem 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. 1° - 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; 1) 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 acompanha-los passo-apasso; - 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, Licenciatura (à Distância/Virtuais)

URL PROGRAMA ON-LINE: http://www.serverweb.unb.br/matriculaweb/graduaca

o/curriculo.aspx?cod=3859

http://vsites.unb.br/ih/novo_portal/portal_gea/lsie/revi sta/revista_index.htm

CONTATO PROGRAMA DE BACHARELADO: Fernando Luiz Araújo Sobrinho, geografia@unb.br

CONTATO PROGRAMA DE POS GRADUACAO:

Rafael Sânzio Araújo dos Anjos, geografia@unb.br CENTROS DE PESQUISA: Instituto de Ciências

Humanas

SITE DA INTERNET:

http://vsites.unb.br/ih/novo_portal/portal_gea/index.h tml

CONTATO PARA MAIS INFORMAÇÕES: Fernando Luiz Araújo Sobrinho, Chefe de Departamento, Brasília, Telefone: 0xx61.3107.7253, geografia@unb.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA:

APRESENTAÇÃO O curso de Geografia na Universidade de Brasília é ministrado há 39 anos. Desde a sua criação consolidou-se como grande formador de profissionais no mercado local e nacional. Atualmente, o curso conta com 307 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, 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 permancer 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. OBJETIVOS DO CURSO O curso visa a formação de professores de ensino básico e médio e pesquisadores. O aluno formado em Licenciatura pode exercer sua profissão dando aulas de Geografia de Primeiro e Segundo graus, tanto em escolas públicas quanto particulares. Com o Bacharelado concluído, o aluno torna-se apto a entrar no mercado de trabalho 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 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

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 relativos as disciplinas didático pedagógicas. Ao final do curso obtem o título de bacharel em Geografia e caso tenha feito a opção para dupla habilitação o de licenciado em geografia. O curso é gratuíto, pois é oferecido por instituição pública de ensino federal.

PROFESSORES:

CHEFE DO DEPARTAMENTO: Fernando Luiz Araujo Sobrinho Doutor em Geografia Área de Pesquisa: Geografia do Turismo, Rede Urbana, Desenvolvimento Urbano e Regional

SUBCHEFE DO DEPARTAMENTO: Ercília Torres Steinke Doutora em Geografia Área de Pesquisa: Climatologia, Recursos Hídricos e Gestão Ambiental

COORDENADOR: Dante F.C. Reis Jr Doutor em Geografia Área de Pesquisa: História e Teoria da Geografia, Ensino de Geografia

DOCENTE PERMANENTE

- Claudia Andreoli Galvão Doutora em Economia Área de Pesquisa Desenvolvimento Regional, Descentralização Industrial, Novas Territorializações
- Everaldo Batista Costa Doutor em Geografia Área de Pesquisa Geografia Cultural, Urbana e do Turismo

Gloria Maria Vargas Doutora em Geografia Área de pesquisa — Geografia Política e Econômica. Desenvolvimento Regional

- Juan Verdesio Bitancurt Doutor em Cartografia Área de Pesquisa Lúcia Cony Faria Cidade Doutora em Planejamento Urbano e
- Regional Área de Pesquisa Planejamento Urbano e Regional Marli de Oliveira Sales Doutora em Pedagogia Área de Pesquisa —
- María de Onverta sales Doutora em Fedagogia Area de Fesquisa Metodologia do Ensino e Aprendizagem em Geografia. Elaboração e avaliação de material didático
- Marilia 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 Sensoreamento Remoto e Fotointerpretação Área de Pesquisa — Sensoreamento Remoto e Fotointerpretação
- Rafael Sanzio Araújo dos Ánjos 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 Sensoreamento Remoto e Fotointerpretação Área de Pesquisa — Cartografia, Fotointerpretação, Sensoriamento Remoto e Sistemas de Informações Geográficas
- Roberto Arnaudo Trancoso Gomes Doutor em Geografia Área de Pesquisa — Cartografia, Fotointerpretação, Sensoriamento Remoto e Sistemas de Informações Geográficas
- 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
- 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, <u>zaiazinn@gmail.com</u> e <u>rbtorres@ucs.br</u>

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 sócioespacial 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 teóricometodológicas. 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 técnicocientífico 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 nº 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 nº 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 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 geografía 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^a. Dr^a. 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, spgcce@uel.br POS GRADUACAO OUTORGADO ANUALMENTE: 20 CENTROS DE PESQUISA: Centro de Ciências Exatas – CCE

SITE DA INTERNET: http://www.geo.uel.br/

CONTATO PARA MAIS INFORMAÇÕES: Rosana Figueiredo Salvi, Vice-Coordenadora do Mestrado em Geografia, Departamento de Geociências 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 INSTITUICÕES 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 e uma sala que é a sede do NEMA - Núcleo de Estudos em Meio Ambiente. Conta com 7 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 em Geografia. Seu corpo docente é composto por professores de diferentes formações: Geógrafos, Geólogos, Agrônomos e Engenheiros Civis. 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
- Alice Yatiyo Asari Geografia da população, Planejamento urbano e regional, Geografia e ensino
- André Celligoi Gestão de recursos hídricos subterráneos
- Angela Cristina Alves de Melo Análise Ambiental Planejamento, Urbano e Ambiental
- Angelo Spoladore Geologia, Geomorfologia, Analise ambiental, Gestão de recursos hídricos subterráneos
- Carlos Alberto Hirata Geografia Física Claudio Roberto Bragueto — Geografia industrial, Geografia
- regional, Geografia agraria Cleuber Moraes Brito — Análise ambiental, Mineração e meio
- ambiente
- Deise Fabiana Ely Geografia física, Climatologia geográfica, Epistemologia da geografía
- Edilson Luis de Oliveira Geografía urbana, Epistemologia da geografía
- *Edison Archela* Geologia e geomorfologia, Ensino de geologia, Recursos hídricos subterráneos
- Eliane Tomiasi Paulino Geografia agrária, Geografia e ensino, Analise regional, Epistemologia da geografía
- Eloiza Cristiane Torres Geomorfologia, Recursos naturais, Ensino de geografia, Dinâmica da paisagem
- Fábio Cesar Alves Cunha Planejamento urbano e regional, Geografia urbana, Analise e planejamento ambiental, Discurso e representações geográficas, Geografia e ensino
- Fernanda Leite Ribeiro Topografia
- Geraldo Terceiro Correa Biogeografia, Recursos naturais, Hidrogeografia, Geomorfologia, Analise ambiental
- Ideni Terezinha Antonello Geografia agrária, Geografia regional, Epistemologia da geografia, Ensino de geografía
- Jeani Delgado Paschoal Moura Geografia agrária, Geografia e ensino

- José Paulo Peccinini Pinese Geologia, Geomorfologia, Analise ambiental, Geografia e turismo
- Lúcia Helena Batista Gratão Geomorfologia, Geografia e ensino, Analise ambiental
- Luciano Nardini Gomes Topografia, Georreferenciamento, Conservação de Solos
- Márcia Siqueira de Carvalho Geografia agrária, Geografia e ensino, Geografia da saúde, Epistemologia da geografía
- Marcos Antonio Fávaro Martins Geopolítica
- Margarida de Cássia Campos Ensino de geografía
- Maria del Carmen M. H. Calvente Geografia e ensino, Geografia e turismo
- *Mirian Vizintim F. Barros* Geoprocessamento, Sensoriamento remoto, Planejamento urbano e regional, Analise ambiental
- Nilson Cesar Fraga Planejamento Urbano e Regional, Análise Ambiental, Território, Rede e Poder, Meio Ambiente e Desenvolvimento
- Nilza A.P. Freres Stipp Análise ambiental de áreas impactadas, Análise ambiental em ciências da Terra, Uso, ocupação e manejo do solo
- Omar Neto Fernandes Barros Cartomática, Geoprocessamento
- Osvaldo 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
- Rodrigo Vitor Barbosa Sousa Hidrologia, Geomorfologia Fluvial, Geoprocessamento, Análise Ambiental
- Rosana Figueiredo Salvi Epistemologia da Geografia
- Rosely Maria de Lima Geomorfologia, Hidrogeografia, Planejamento urbano e regional, Geografia e ensino, Analise ambiental
- Ruth Youko Tsukamoto Geografia agrária, Geografia e ensino
- *Tânia Maria Fresca* Geografia urbana, Geografia industrial, Planejamento urbano
- Vespasiano de Cerqueira Luz Filho Topografia, Geodésia, Economia do Meio Ambiente, Urbanismo
- Wladimir Cesar Fuscaldo Analise regional, Planejamento urbano e regional, Geografia e ensino, Analise ambiental, Recursos naturais

UNIVERSIDADE ESTADUAL DO OESTE DO PARANÁ

COLEGIADO DO CURSO DE GEOGRAFIA, CAMPUS DE MAL. CÂNDIDO RONDON

FUNDADO: 1997

PROGRAMAS: Licenciatura; Mestrado.

CONTATO PROGRAMA DE LICENCIATURA: rondon.col.geografia@unioeste.br

- CONTATO PROGRAMA DE POS GRADUACAO: mestradogeografia.mcrondon@gmail.com
- CENTROS DE PESQUISA: Centro de Ciências Humanas, Educação e Letras

SITE DA INTERNET:

http://www.unioeste.br/cursos/rondon/geografia/

CONTATO PARA MAIS INFORMAÇÕES: Colegiado do Cuso de Geografia: (45) 3284-7851

PROGRAMAS E INSTITUIÇÕES DE PESQUISA:

APRESENTAÇÃO: O Curso de Geografia do Campus de Marechal Cândido Rondon iniciou suas atividades acadêmicas no ano de 1997. Desde a sua implantação, buscou-se desenvolver as atividades de ensino, pesquisa e extensão, respondendo à necessidade de formação de professores de Geografia para atuar no ensino fundamental e médio da região. Atualmente, 120 alunos compõem o corpo discente. HABILITAÇÕES: O Curso de Geografia oferece habilitação na área de Licenciatura. São abertas 40 vagas por ano para alunos ingressantes. As disciplinas são realizadas no período noturno. A carga horária total é de 2.920 horas. Para a conclusão do curso, o aluno deve permanecer na universidade no mínimo 4 anos e no máximo 7 anos.

OBJETIVOS DO CURSO: 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 voltados à formação do professor.

O ESTUDANTE DE GEOGRAFIA: O estudante necessita desenvolver competências e habilidades que contribuam para a formação do geógrafo em sua integralidade, aliando ensino e pesquisa, bem como capacitem de forma sólida para o exercício da profissão.

LABORATÓRIOS: Os laboratórios e grupos de pesquisa que integram o curso de Geografia são: o Grupo Multidisciplinar de Estudos Ambientais (GEA); o Laboratório de Ensino de Geografia (LEG); o Laboratório de Estudos Regionais (LABER); o Grupo de Estudos Fronteiriços (GEF); o Laboratório e Grupo de Pesquisa Geografia das Lutas no Campo e na Cidade (GEOLUTAS); e o Grupo de Ensino e Práticas de Geografia (ENGEO).

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: O aluno ingressante cursa 2920 horas/aula, distribuídos em disciplinas de formação geral (17 disciplinas), de formação diferenciada (5 disciplinas), estágio supervisionado (3 disciplinas), trabalho de conclusão de curso (1) e atividades acadêmicas complementares (200 horas). O curso é gratuito, oferecido por instituição pública.

PROFESSORES:

COORDENADOR:

Fábio de Oliveira Neves. Doutor em Geografia — sustentabilidade; governança do ambiente urbano e gestão de resíduos sólidos.

DOCENTE PERMANENTE:

- Edson Belo Clemente de Souza. Doutor em Geografia Geografia Urbana e Regional: planejamento urbano e regional; fronteira; metropolização; turismo.
- Edson dos Santos Dias. Doutor em Geografia Humana Ordenamento territorial e meio ambiente; conflito socioambiental e unidades de conservação da natureza; conflito socioambiental em áreas urbanas
- *Ericson Hideki Hayakawa. Doutor em Sensoriamento Remoto* Geotecnologias (sensoriamento remoto e geoprocessamento) e suas aplicações em geografia e geociências.
- José Edézio da Cunha. Doutor em Geografia Física Análise integrada da paisagem; compreensão da relação solo - relevo
- Karin Linete Hornes. Doutora em Geografia Análise de paisagens subtropicais; feições geomorfológicas (Campos Gerais); geoturismo; análise ambiental e geografia da saúde.
- João Edmilson Fabrini.Doutor em Geografia movimentos sociais, lutas camponesas, assentamentos de sem-terra, reforma agrária, cooperativas agrícolas.
- Márcia Regina Calegari. Doutora em Agronomia estudo do solo como registro de mudanças ambientais; análise de fitólitos aplicada em estudos de reconstrução paleambientais e coleções de referencias.
- Maristela Ferrari .Doutora em Geografia Fronteira; limite; interações transfronteiriças e cidades gêmeas.
- Marli Terezinha Szumilo Schlosser. Doutora em Geografia Humana — Ensino de Geografia e Geografia Agrária.
- Mateus Marchesan Pires.Mestre em Geografia Ensino de Geografia

- Oscar Vicente Quinõnes Fernandez. Geociências e Meio Ambiente Bacia hidrográfica; dinâmica fluvial; restauração de cursos fluviais.
- Tarcísio Vanderlinde .Doutor em história Agricultura familiar e camponesa; história; globalização; mediações; geografia e religiosidades; migrações; identidades e ambiente.
- Vanda Moreira Martins. Doutora em Agronomia Ciências Exatas e da Terra; Geografia Física; Pedologia; Geomorfologia; Meio Ambiente.

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/informaco es.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 contêm 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:

- Profa. Dra. Andréia Medinilha Pancher Cartografia, Cartografia Temática, Geoprocessamento
- Prof. Dr. Adler Guilherme Viadana Biogeografia de Sistemas Aquáticos; Evolução da Paisagem Geográfica
- Profa. Dra. Ana Tereza Caceres Cortez Biogeografia, Ecologia, Recursos Naturais
- Prof. Dr. Anderson L. H. Christofoletti 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
- Profa. Dra. Bernadete Castro Oliveira Antropologia Social Patrimônio Cultural e Meio Ambiente, Ensino de Antropologia
- Profa. Dra. Cenira Maria Lupinacci da Cunha Geomorfologia Cartografia, Geomorfológica Análise Ambiental
- Profa. 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
- Profa. 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
- Profa. 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
- Profa. Dra. Maria Isabel Castreghini de Freitas Cartografia Sensoriamento remoto aplicado à análise ambiental Sistema de Informação Geográfica (SIG)
- Profa. Dra. Maria Juraci Zani Dos Santos Geografia Física, Climatologia, Agroclimatologia, Bioclimatologia
- Profa. 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
- Profa. Dra. Sandra Elisa Contri Pitton Climatologia Aplicada e Qualidade Ambiental e de Vida
- Prof. Dr. Sérgio dos Anjos Cartografia Geoprocessamento
- Profa. Dra. Silvana Maria Pintaudi Geografia do Comércio, Serviços e do Consumo, Geografia Urbana
- Profa. Dra. Silvia Ap. Guarniéri Ortigoza Geografia Humana do Brasil; Geografia Regional e Geografia Urbana

Profa. 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 OUTORGADO 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 INSTITUICÕES DE PESOUISA: 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 sextafeira, 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 físicogeográfico, 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 geoecológico 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 Goettert, Doutor em Geografia Lisandra Pereira Lamoso, Doutora em Geografia Márcia Yukari Mizusaki, Doutora em Geografia 17 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 didáticopedagógico 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/geografía.htm http://www.igc.ufmg.br/cursos/geografía.htm http://www.ufmg.br/pos/geografía/

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 3409 5410, 241eografía@igc.ufmg.br; 5421, Fax: (31) posgeog@igc.ufmg.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA:

A 241eografía241 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 241eograf 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 241eogra 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 241eografía da UFMG se destaca nas áreas de Geomorfologia, pedologia, Georafia e meio ambiente, recursos hídricos, 241eografía241gí, 241eografía urbana e 241eografía social. O Departamento de Geografia funciona no Instituto de Geociências da UFMG. Conta com 241eogra 241eografía241gí (Laboratório de Geomorfologia; Laboratório de Geoprocessamento, etc.), biblioteca e 241eografía. 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 241eografía241. 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 241eografía. São contemplados 4 cidades de Minas Gerais, totalizando 160 alunos. O curso á 241eografía 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 241eograf 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 Pósgraduação também há um 241eograf 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 241eografía241 da Pró-Reitoria de Graduação em termos de recursos e bolsas de iniicação 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 241eografía241 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 viceversa (no caso da licenciatura). Para isto, basta que o aluno siga as 242eografía242 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, 242eogra cursar as disciplinas exigidas. A duração média da complementação é de um ano e meio. Ocorrem duas entradas por ano no curso de 242eografía, 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 242eografía242gí 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 geografico; 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
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- Márcia Maria Lousada (mestre) Turismo Situação funcional: Professor Assistente E-mail: lousadamarcia@yahoo.com.br Telefone: 3409-5409 Sala: 326
- Maria Aparecida dos Santos Tubaldini (Dra.) Geografia agrária Situação funcional: Professor Associado E-mail: ubaldini l@uol.com.br Telefone: 3409-5493 Sala: 329
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- Mariana de Oliveira Lacerda (mestre) Turismo Situação funcional: Professor Assistente E-mail: mirilacerda@gmail.com Telefone: 3409-6237 Sala: 2046
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- 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
- Vilma Lúcia Macagnan Carvalho (Dra.) Geomorfologia; geografia e meio ambiente Situação funcional: Professor Associado Email: vlmc@ufmg.br Telefone: 3409-5435 Sala: 311
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- 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, Psicology, Education, Philosophy), in the Environmental Sciences and Engineering (Cartography, Geology, Environmental Sciences, Oceanography, Computer Sciences etc), in the Health Sciences (Public Healthy, Tropical Diseases, Medicine, Odontology, Nutrition, Occupational Teraphy, 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 interative 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 Galvincio, 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.cfh.ufsc.br/geografia/ **CONTATO PROGRAMA DE BACHARELADO: Valmir** Volpato, volpato@cfh.ufsc.br **BACHARELADOS OUTORGADO ANUALMENTE: 20 CONTATO PROGRAMA DE POS GRADUACAO:** Juliana Blau, secpggeo@cfh.ufsc.br POS GRADUACÃO OUTORGADO ANUALMENTE: 20 **CENTROS DE PESQUISA: Centro de Filosofia e Ciências** Humanas SITE DA INTERNET: http://www.cfh.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.cfh.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 metodológicos e 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 geografía. 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 integradamente, 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: 1.0 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 prérequisitos 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 guarta 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. 9.0 aluno deverá desenvolver ao longo do curso atividades acadêmicocientífico-culturais correspondentes a 200 horas, detalhado no link Atividades Acadêmicas 10.0 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. 12.0 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: Cássio** Arthur Wollmann (cassio geo@yahoo.com.br)
- CONTATO PROGRAMA DE LICENCIATURA PLENA: Cássio Arthur Wollmann (cassio_geo@yahoo.com.br)
- CONTATO PROGRAMA DE LICENCIATURA PLENA (À DISTÂNCIA/VIRTUAL): Meri Lourdes Bezzi (meribezzi@yahoo.com.br)

CONTATO PROGRAMA DE PÓS-GRADUACAO: Eliane Maria Foleto (efoleto@gmail.com) **CENTROS DE PESOUISA: Centro de Ciências Naturais e** Exatas / Universidade Federal de Santa Maria

SITE DA INTERNET: www.ufsm.br/ccne

CONTATO PARA MAIS INFORMAÇÕES: Carmen Rejane Flores Wisniewsky - Chefe de Departamento (carmenrejanefw@gmail.com)

PROGRAMAS E INSTITUICÕES DE PESQUISA:

APRESENTAÇÃO O curso de Geografia na Universidade Federal de Santa Maria é ministrado há 44 anos. Desde a sua criação, consolidouse 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 permancer na faculdade no mínimo 6 semestres, e no máximo 12. Ao exceder esse limite o aluno entra em processo de jubilamento. 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 Geografía. 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 aoptativas. 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 Biogeografia, Estudos ambientais, Geografia física (geral).
- André Weissheimer de Borba awborba.geo@gmail.com Estudos ambientais, Castástrofes / áreas de risco, Geografia física (geral).
- Andrea Valli Nummer a.nummer@gmail.com Geomorfologia, Castástrofes / áreas de risco, Geografia física (geral).
- Átila Augusto Stock da Rosa atiladarosa@gmail.com Estudos ambientais, Geografia física (geral).
- Bernardo Sayão Penna e Souza bernardosps@yahoo.com.br Geomorfologia, Geografia física (geral), Sensoriamento remoto.
- Benhur Pinós da Costa <u>benpinos@gmail.com</u> Geografia econômica, Estudos de gêneros, Geografía social.
- Carlos Alberto da F. Pires <u>calpires@terra.com.br</u> SIG, SIG (Programa de certificação), Geografia física (geral).
- Carmen Rejane F. Wizniewsky <u>carmenrejanefw@gmail.com</u> Educação geográfica, Geografia rural, Geografia social.
- Cássio Arthur Wollmann <u>cassio_geo@yahoo.com.br</u> Climatologia, Conservação, Geografia aplicada, Geografia física (geral).
- Cesar de David <u>cdedavid2009@gmail.com</u> Educação geográfica, Geografia rural, Geografia social, Geografia política.
- Edgardo Ramos Medeiros <u>edgardomedeiros@gmail.com</u> Estudos ambientais, Castástrofes / áreas de risco, Geografia física (geral).
- Eduardo Schiavone Cardoso <u>educard@smail.ufsm.br</u> Geografia econômica, Geografia social, Desenvolvimento regional.
- *Eliane Maria Foleto <u>efoleto@gmail.com</u>* Conservação, uso da terra, gestão de recursos, Geografia física (geral).
- Gilda Maria Cabral Benaduce <u>g.benaduce@gmail.com</u> Educação geográfica, Geografia urbana, Geografia da População.
- José Luiz Silvério da Silva <u>silverioufsm@gmail.com</u> Recursos hídricos, Estudos ambientais, Geografia física (geral).
- Lauro Cesar Figueiredo <u>laurocfigueiredo@hotmail.com</u> Pensamento geográfico, Ecologia cultural, Geografia cultural.
- *Lilian Hahn Mariano da Rocha <u>Ihrocha@yahoo.com</u> Geografia urbana, Planejamento (regional, urbano), Geografia social.*
- Luis Eduardo de Souza Robaina <u>lesrobaina@yahoo.com.br</u> Geomorfologia, Castástrofes / áreas de risco, Geografia física (geral).
- Mauro Kumpfer Werlang <u>wermakwer@gmail.com</u> Métodos quantitativos, Geomorfologia, Geografia física (geral).
- Meri Lourdes Bezzi <u>meribezzi@yahoo.com.br</u> Pensamento geográfico, Geografia cultural, Geografia rural.
- Rivaldo Mauro de Faria <u>rivaldo faria@ufsm.br</u> Geografia médica, Geografia urbana, Planejamento (regional, urbano).
- Roberto Cassol <u>rtocassol@gmail.com</u> SIG, SIG (Programa de certificação), Geografia física (geral).
- Romário Trentin <u>romario.trentin@gmail.com</u> Geomorfologia, Castástrofes / áreas de risco, Geografía física (geral), SIG.
- Sandra Ana Bolfe <u>sabolfe@hotmail.com</u> Educação geográfica, Geografia urbana, Geografia da População.
- Waterloo Pereira Filho <u>waterloopf@gmail.com</u> SIG, Sensoriamento remoto, Geografia fisica (geral

CHEFE DO DEPARTAMENTO:

Carmen Rejane F. Wizniewsky (carmenrejanefw@gmail.com)

SUBCHEFE DO DEPARTAMENTO: Bernardo Sayão Penna e Souza (bernardosps@yahoo.com.br)

COORDENADOR: Cássio Arthur Wollmann (cassio geo@yahoo.com.br)

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 Foleto, 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 Goncalves Moura, cocgeo@pontal.ufu.br

SITE DA INTERNET: http://www.facip.ufu.br/geografia

CONTATO PARA MAIS INFORMAÇÕES: Gerusa Gonçalves Moura, Coodernadora 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 instações, 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 Coodenação de Aperfeiçoamento de Pessoal de Nível Superior - CAPES, Ministério da Educação - MEC, entre outros

PROFESSORES:

- Anderson Pereira Portuguez 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 distancia
- 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 hidrográgificas, Meio ambiente e cidadania
- Maria Beatriz Junqueira Bernardes Educação ambiental; Ensino de geografía
- 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. Alexsandra Bezerra da Rocha, Fortaleza, Ceará/CE, Brasil, Telefone: (85) 33660000, alexsandrarocha@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, REOUISITOS 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/agrárias, 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

ESTRUCTURA 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 científica 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-GRADUACÔES OUTORGADAS ANUALMENTE:** 25

SITE DA INTERNET: www.geografia.ufrj.br

CONTATO PARA MAIS INFORMAÇÕES: Prof. Dr. William Ribeiro da Silva, Chefe de Departamento, e Prof. Dr. Scott Hoeffle, Coordenador da Pós-Graduação, Email: ppgg.geografia@ppgg.igeo.ufrj.br, Telefone: +55 21 2590-9534, Fax: +55 21 2590-1880. Av. Athos da Silveira Ramos, 274. Prédio do CCMN, Bloco I, Sala 25. CEP 21941-916 - Cidade Universitária. Rio de Janeiro, RJ, Brasil

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 Pósgraduação 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 Geoecológicas 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 - Geomorfologia, hidrologia e geoecologia Ana Maria de Lima Daou - Geografia e História Ana Maria de Souza Melo Bicalho — Geografia Agrária Andre de Souza Avelar — Hidrologia Antonio José Teixeira Guerra — Geomorfologia Antonio Paulo de Faria — Geomorfologia Carla Bernadete Cruz Madureira — Sensoriamento Remoto Claudio Egler — Geografia Econômica e Geografia Regional Dieter Muehe — Geomorfologia Costeira Eduardo José Pereira Maia — Ensino de Geografia Elizabeth Feitosa da Rocha de Souza — Sensoriamento Remoto Eve-Anne Buhler — Geografia Econômica e Geografia Agrária Flavia Lins de Barros - Geomorfologia Costeira Frédéric Monié — Geografia dos transportes, Geografia economica e Geografia Regional Gisela Aquino Pires do Rio - Geografia Econômica e regional

Gislene Aparecida dos Santos — Geografia da População Iná Elias de Castro — Geografia Política

- Jorge Xavier da Silva Geoprocessamento
- Josilda Moura Geomorfologia
- Julia Adão Bernardes Geografia Agrária
- Leticia Parente Ribeiro História do Pensamento Geográfico e Geografia política
- Lia Osorio Machado Geografia Política e História do Pensamento Geográfico
- Manoel do Couto Fernandes Cartografia e geoecologia
- Marcelo Lopes de Souza Desenvolvimento Sócio-Espacial e Estudos Urbanos
- Maria Célia Nunes Coelho Geografia Humana
- Maria Naíse de Oliveira Peixoto Geomorfologia e educação ambiental
- Monica dos Santos Marçal Geomorfologia Fluvial Nelson Ferreira Fernandes Pedologia, hdrologia e geomorfologia
- Olga Becker Geografia da População
- Paulo Cesar da Costa Gomes Teoria da Geografia
- Paulo Marcio Leal Menezes Cartografia
- Paulo Pereira de Gusmão Políticas Públicas e Meio Ambiente
- Rafael Silva Barros Sensoriamento Remoto
- Rafael Winter Ribeiro Geografia Política e Patrimônio
- Rebeca Steiman Geografia Política e Geografia Regional
- Ricardo Gonçalves Cesar Biogeografia e
- Roberto Lobato Corrêa Geografia Urbana e Geografia Cultural
- Scott Hoefle Ecologia Política e Geografia Cultural
- *Telma Mendes da Silva —* Geomorfologia *William Ribeiro da Silva —* Geografia Urbana.

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-curriculargeografia-licenciatura.pdf Ementas Licenciatura http://www.ulbra.br/geografia/files/ementa-geografialicenciatura.pdf Pós-Graduação http://200.196.73.100/modulos/principal/_curso_site.p hp?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 INSTITUICÕES DE PESOUISA: 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 Ecucação 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 GEOCIENCIAS 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 Geociencias, 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, geoecology, 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
- Glauco 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, AssociateProfessor — agricultural geography, geography teaching, regional geography
- Ricardo Mota Bacurau, Specialist, Fortaleza (UFC), Associate Professor — industrial geography, regional development
- Rogerio 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/eadensino-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 paa 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 Geogafia - licenciaturfa 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 seqüência semestral das atividades acadêmicas, bem como parâmetros para o processo ensino-aprendizagem, tendo em vista o perfil do profissional da Geografia formado pela UNIJUÍ. 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 UNIJUÍ 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, Postítulo

POINT OF CONTACT: Dr. Federico Arenas, Profesor – Director, (56) 2-6864716

WEB SITE: http://www.geo.puc.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:

Pregrado: Curriculum y Titulación: Bachiller - Licenciatura en Geografía y título profesional de Geógrafo Malla Curricular y Folleto de Pregrado Geografía Descripción General: 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 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.

Magíster: Curriculum y titulación: Magíster en Geografía y Geomática Descripción General: Los contenidos de este Magíster 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 concer 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 físiconaturales con las diversas actividades humanas.

Certificados Académicos *para alumnos de pregrado de otras carreras:* Geografía del Ambiente, Geografía del Espacio Humanizado, Geomática.

PUBLICACIONES: Revista de Geografía Norte Grande, Serie GEOlibros.

FACULTY:

Federico Arenas Vasquez, Director Instituto De Geografía Marcela Sanchez Martinez, Subdirectora Instituto De Geografía Alejandro Salazar Burrows, Secretario Académico

Reinaldo Rioseco Hormazabal, Jefe Departamento Geografía Humana

Consuelo Castro, Jefa Departamento Geografía Física

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 CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIE A: Macarena Barahona Jonas, Jefa de Carrera y Directora de la Escuela de Geografía. Santiago, Chile, Telefono: 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 provectos 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 urbanorural. En este sentido el papel del sujeto que se provecta 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 provectos 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 modo 2014) Del mismo 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 CRITICA"), 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, movilizando 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:

Irene Molina, Geógrafa y Licenciada en Geografía, Pontificia Universidad Católica de Chile. Magíster en Geografía Humana, Universidad de Uppsala, Suecia. Doctora en Geografía Humana, Universidad de Uppsala, Suecia. irene.molina@ibf.uu.se

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Felipe Morales, Geógrafo y Licenciado en Geografía, Pontificia Universidad Católica de Chile Magíster en Desarrollo Urbano, Pontificia Universidad Católica de Chile Rodrigo Hernán Rocha Pérez, Geógrafo y Licenciado en Geografía, Universidad de Chile Director del Departamento de Historia y Geografía, Universidad Metropolitana de Ciencias de la Educación

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.

Daniela Escalona, Geógrafa y Licenciada en Geografía, Pontificia Universidad Católica de Chile. Doctora (c) en Geografía, Pontificia Universidad Católica de Chile.

Francisca Pérez, Antropóloga y Licenciada en Antropología, Universidad Academia de Humanismo Cristiano. Doctora en Arquitectura y Estudios urbanos, Pontifica Universidad Católica de Chile.

Mauricio Calderón Sánchez, Ingeniero Agrónomo Universidad de Chile, Magíster en Ciencias Agropecuarias Mención en Producción de Cultivos

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. Maria 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 Magíster 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: Magíster en Geografía, Mención Recursos Territoriales, Mención Organización Urbano Regional

UNIVERSIDAD DE LA SERENA

AREA DE CIENCIAS GEOGRAFICAS DATE FOUNDED: 1980 GRADUATE PROGRAM FOUNDED: 1995 (Master) DEGREES OFFERED: Pedagogy in Geography, Master in Geography GRANTED: Bachelor: 260; Master: 2; (2 expected in 2007) STUDENTS: Master: 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 Nº 1167/1982. La Unidad Académica ofrece tres programas de postgrado. El Magíster en Ambiente en cualquiera de sus dos líneas de investigación: Gestión y Planificación Ambiental del Territorio y Gestión de Recursos Hídricos. El Magíster en Medio Ambiente con mención en Gestión y Ordenamiento Ambiental. Y, por último, el Magíster 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 análoga 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

Garrido Lazo René, Doctor en Ingeniería Química

Mauro Álvaro, Magíster en Geografía

Medina Tapia Marcos, Magíster en Ingeniería

Pantoja Mazzini Víctor, Magíster en Hidrología Aplicada

Pizarro Konczak Jaime, Doctor en Ciencias con mención en Química

Portal Valenzuela Belfor, Doctor en Geografía

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: MIGUEL ANTONIO ESPINOSA RICO, PRESIDENTE DEL CONSEJO DIRECTIVO, Carrera 57-B Bis 128-60, Bogotá, Colombia, Telefono: 57-1-6243153, acoge40@gmail.com

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: 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 geográfica como carrera profesional en los niveles superior y posgraduado; y, en fin (5) Procurar que la geográfica 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 DESARROLLO INSTITUCIONAL Busca encauzar las actividades de la Asociación hacia la creación de la "Casa del Geógrafo", como sede física que albergue actividades de carácter social, profesional y académico en la ciudad de Bogotá. Este programa está orientándose por medio de un plan quinquenal que busca la adquisición y dotación de un inmueble que se inaugurará en el 2017, con motivo del semi-centenario de la Asociación. 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.

MEMBRECIA: MEMBRECÍA 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: El Congreso Colombiano de Geografía se realiza cada dos años; alternamente, se reune la Convención Colombiana de Pedagogía Geográfica, cada dos años (aproximadamente 250 asistentes al evento)

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, alexcely@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 arácter 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 tiente 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 geografía. 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, Bogota, Colombia, Telefono: (+571)3404244, razoncartografica@gmail.com

MISION: 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 públicosrelacionados 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 suscriptores 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.

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 CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIE 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 fisica 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 CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIE A: Andrés Enrique Bautista, Santiago de Cali, Colombia, Telefono: (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 estan 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 ICFES 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

Planta Profesoral Nombrados 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 Gomez Doctora en Ciencias Sociales. Área de profundización Sociedad y Educación. Ramón Serna Magíster en Geografía con énfasis en Ordenamiento Territorial Contratistas Julio Cesár Rubio Candidato a Magister 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 GEOGRAFIA FECHA DE FUNDACION: 2005 ESPECIALIZACIÓN EN GEOGRAFÍA POLÍTICA Y GEOPOLÍTCA DEL MUNDO ACTUAL FUNDADA EN: 2010 TITULOS OFRECIDOS: Pregrado, Especialización. GRADOS CONCEDIDOS, 1/08/2005 – 30/09/2010: Ninguno ESTUDIANTES EN RESIDENCIA: 12 Pregrado, 5 Especialización NO EN RESIDENCIA: 1 Pregrado JEFE DE PROGRAMA: Philippe Chenut (e.)

PARA PEDIR UN CATOLOGO Y MAS 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: geografía@uexternado.edu.co

Internet:http://portal.uexternado.edu.co/irj/portal/anonymous?guest_us er=sociales&NavigationTarget=navurl://e19058adde7c1bca8ac0da720 344db6a

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 ACADEMICO, REQUISITIOS DE ADMISION, AYUDA FINANCIERA: El plan de estudios se desarrolla en 10 semestres. Requisitos de adimisión: Diploma de educación secundaria de Colombia o equivalente, examen del ICFES, entrevis 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 agrarian — Desarrollo local

PROFESORADO ASOCIADO:

- Elkin Velásquez, Ingeniero Geólogo Doctorado en Geografía. U. de Grenoble, Gobernanza territorial — Riesgos naturales y antrópicos
- 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: Nohra León Rodríguez UNDERGRADUATE PROGRAM FOUNDED: 1991 COORDINATOR UNDERGRADUATE PROGRAM: Jhon Williams Montoya G. COORDINATOR GRADUATE PROGRAM: Luis Carlos

Jiménez Reyes

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.

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Director del Departamento de Geografia, Carrera 30 45-03, Universidad Nacional de Colombia; Sede Bogotá, Colombia. Telefonos (57-1) 3165025 o 3165000 ext. 16321, 16320, Fax (57-1)3165025. E-mail address: depgeografi_bog@unal.edu.co

UNDERGRADUATE PROGRAM DEGREE OFFERED: Professional Geographer STUDENTS IN RESIDENCE: 221

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: 120

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:

- Germán Vargas C., Doctor in Earth Sciences (Université Pierre at Marie Curie, Paris VI, Paris, France, 1997), Associate Professor — Geology, Remote Sensing, Natural Hazards
- José Daniel Pabón, Ph.D. in Meteorology, Odessa GMI, former USSR, 1987, Associated Professor — Meteoroloy and Climatology, Climate Variability and Climate Change, Natural Hazards, Environmental Studies
- Nohra León, Doctor in Economics Sciences, Universidad Nacional de Colombia, 2003, Associate Professor — Economic Geography, Environmental Studies, Introduction to Geography
- John-Williams Montoya, Ph.D. in Geographic Sciences (Université Laval, QC, Canada, 2012), Associate Professor — Urban Geography, Theory of the Geography
- Luis Carlos Jiménez- Reyes, Doctor in Geography of Development (Université de Bordeaux 3, 1999), Associate Professor — Urban Geography, Regional Geography, Urban and Regional Planning
- Juan Manuel Diaz, Dr. rer. nat. (Justus Liebig Universitat Germany, 1985), Associate Professor — Biogeography, Marine Biology
- Isabel Duque, Doctor in Human Geography 2008 (Universidad de Barcelona), Associate Professor — Urban Geography, Urban Planning and Management
- Astrid Ulloa, Ph. D.in Anthropology (University of California-Irvine, 2003), Titular Professor — Cultural Geography, Political Ecology, Gender Geography
- Jeffer Chaparro M., Doctor in Human Geography (Universidad de Barcelona, 2009), Assistant Professor — Cybergeography, Human Geography, Urban Geography, Geography and Education
- Alice Amandine Beuf, Doctor in Human, economic an regional Geography, Université Paris Ouest, Nanterre La Défense, 2011. Assistant Professor — Social Geography, Urban Geography, Economic Geography
- Susana Barrera, Ph.D. (c) in Geography (Wilfrid Laurier University -University of Waterloo, Canada, 2010), Associate Professor — Urban Watershed management, Urban Geography, Environmental Geography, and GIS
- Gabriel Triana, Doctor (c) in Geography (Universidad Nacional de Colombia, 2009), Associate Professor — Analysis and Spatial Modeling, Geographic Information Technologies
- Kim Robertson, M.Sc. in Earth Sciences (University of California-Davis, 1987), Assistant Professor — Geomorphology, Photointerpretation, and Natural Hazards
- Luis Jorge Gracia, M.Sc. in Geography, Escuela de Postgrados en Geografía UPTC/IGAC, 1992, Assistant Professor — Population Geography, Rural Geography
- Willington Siabato Doctor (c) in Geographical Engineering (Universidad Politécnica de Madrid, 2009), Assistant Professor
 — Analysis and Spatial Modeling, Geographic Information Technologies
- Luis Gabriel Salas Salazar M.Sc. in Geography, Escuela de Postgrados en Geografía UPTC/IGAC, 2010, Assistant Professor — Political Geography, Human Geography

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 ESCRIBIE 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 llegue 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 Υ PROFUNDIZACIÓN UNIVERSIDAD Y ENTORNO 3 GENERAL SEGUNDO SEMESTRE ANTROPOLOGÍA DISCIPLINAR CULTURAL 4 Y PROFUNDIZACIÓN EPISTEMOLOGÍA DE LAS CIENCIAS SOCIALES 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 Υ PROFUNDIZACIÓN DISCIPLINAR PROYECTO PEDAGÓGICO II 4 INTERDISCIPLINAR SOCIO-HUMANÍSTICA GENERAL CUARTO SEMESTRE 3 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 PROFUNDIZACIÓN HISTORIA DE AMÉRICA I 4 PROFUNDIZACIÓN DISCIPLINAR Y PROYECTO PEDAGÓGICO IV 4 INTERDISCIPLINAR SEXTO SEMESTRE ELECTIVA INTERDISCIPLINAR III 4 INTERDISCIPLINAR GEOGRAFÍA POLÍTICA II 4 DISCIPLINAR PROFUNDIZACIÓN HISTORIA DE AMÉRICA II 4 DISCIPLINAR 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 PROFUNDIZACIÓN DISCIPLINAR Y ELECTIVA DE PROFUNDIZACIÓN II 3 DISCIPLINAR Y PROFUNDIZACIÓN ETICA Y POLÍTICA 4 GENERAL SEMINARIO DE INVESTIGACIÓN III 3 DISCIPLINAR Y PROFUNDIZACIÓN SOCIOLOGÍA COLOMBIANA DISCIPLINAR 3 PROFUNDIZACIÓN DECIMO SEMESTRE PRÁCTICA PEDAGÓGICA INTEGRAL 5 DISCIPLINAR

PROFESORADO: 33 profesores

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.geounicordoba.info 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 Medfio 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 Icetex, 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 geomàtica
- 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. Rucinque, 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 Ided Aguilar Jiménez, Oscar Antonio Puerta Avilés. Otros catedráticos: Alexis Carbono 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. Rucinque, 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. Rucinque, asesor académico, 2011)

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, Sabrine —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 en Cartografía digital, Bachillerato, Licenciatura, 2 Maestrados GRANTED: 2013- Bachillerato 26 y Licenciatura 13; Maestrados: 20 (2012 - 2013) STUDENTS: Mestrado: 20 CHAIR: Master Lilliam Quirós Arias DEPARTMENT ACADEMIC PROGRAM COORDINATOR: Master Gustavo Barrantes

Castillo

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Master Lilliam Quiros Arias <u>lquiros@una.cr</u> (Chair) or Master Gustavo Barrantes Castillo <u>gbarrantes@gmail.com</u> 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:// http://www.geo.una.ac.cr// e-mail address: geograf@una.ac.cr.

PROGRASM 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 Roatàn, 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:

Dos carreras de grado: Carrera de Ciencias Geográficas con énfasis en ordenamiento del territorio y el Diplomado en Cartografía y Diseño Digital. 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 Meylyn, Máster Desarrollo Rural Comunitario y Licda. Educación Ambiental y Turismo
- Araya Ramírez Iliana, Licenciada Geografía Humana y Enseñanza de la Geografía
- Arrieta Chavarría Omar, Máster Geografía Humana, Ordenamiento Territorial y Epistemología de la Geografía
- Arroyo González Luis Nelson, Máster Recursos Naturales, Fotointerpretación y Desastres Naturales
- Barrantes Castillo Gustavo, Máster Geografía Física, Geografía física, desastres naturales y geomática
- Cedeño Montoya, Bepsy, Máster Sistemas de información geográfica y Teledetección
- Hernando Echeverría Ligia, Licenciada Geografía Física, Hidrología y manejo de cuencas
- Miranda Álvarez Pablo, Máster Ordenamiento Territorial, Turismo, Estadística
- Moraga Peralta Julio Cesar, Candidato a Doctorado Sistemas de Información Geográfica y Teledetección
- Morera Beita Carlos, Doctor Geografía Física, 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, Licencaida Planificación territorial, Planificación ambiental
- Quirós Arias Lilliam, Máster Geografía Humana, Desarrollo Rural
- *Rivera Jiménez Sergio, Máster* Abogado con especialidad en Legislación ambiental
- Rodríguez Soto Francisco, Máster, Candidato a Doctorado Planificación urbano regional y Sistemas de Información Geográfica
- Romero Vargas Marilyn, Doctora Planificación territorial, paisaje y conservación
- Ruiz Hernández Amalia, Licenciada Geografía física, Cartografía, Sistemas de Información Geográfica
- Sandoval Murillo Luis, Licenciado Geógrafo, Paisaje y Conservación, Sistemas de Información Geográfica
- Solano Mayorga Manuel A., Máster Sistemas de Información Geográfica y Teledetección
- Vega Ramírez Mauricio, Máster Geografía Humana, Ordenamiento territorial, Gestión Municipal
- Adolfo Quesada, Geógrafo, Máster Geomorfología
- Daniel Avendaño Leadem Geógrafo, Maestría en Sustentabilidad y desarrollo

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 future 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 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 académico1997-1998, 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. Filemón Napoleón Valencia Robayo. 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

OBJETIVO: El CEPEIGE tiene por objetivo primordial 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 sus instalaciones y laboratorios con los recursos 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 tienen la categoría de eventos de especialización a nivel de posgrado.

Están dirigidos a profesionales de los países americanos vinculados con las ciencias geográficas, y tratan cada año sobre diferentes temas 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 que es un experto internacional especializado en el tema, 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 junio y diciembre de cada año. En la primera fase se imparte instrucción teórico-conceptual sobre el tema central del evento y sus disciplinas de apoyo, mediante la modalidad de clases formales, conferencias especializadas y prácticas de campo. La segunda comprende la realización de trabajos de investigación por grupos en el campo y el laboratorio, y la elaboración de una minitesis 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:

- CATASTRO Y SIG APLICADOS
- GESTIÓN TERRITORIAL CON HERRAMIENTAS DE SIG
- GPS BÁSICO Y AVANZADO
- MODELAMIENTO AMBIENTAL

- MANEJO DE SENSORES REMOTOS & SISTEMAS DE INFORMACIÓN GEOGRÁFICA, CON SOFTWARE LIBRE GEOGRAPHICA, CON SOFTWARE LIBRE
- GEOESTADÍSTICA
- DISEÑO E IMPLEMENTACIÓN DE VISUALIZADORES DE MAPAS
- PROCESAMIENTO DIGITAL DE IMÁGENES
- SIG APLICADO A LAS TELECOMUNICACIONES, REDES DE TELEFONÍA, TV POR CABLE, Y FIBRA ÓPTICA, INFRAESTRUCTURA.
- SIG APLICADO A LA GESTIÓN DE AGUA POTABLE, ALCANTARILLADO, AGUAS LLUVIAS Y RIEGO.
- ARCGIS 10, MODEL BUILDER, CREACIÓN Y APLICACIÓN DE MODELOS ESPACIALES MULTITEMÁTICOS.
- MARKETING TERRITORIAL
- APLICACIONES ESPACIALES PARA LA GESTIÓN AMBIENTAL
- SIG APLICADO AL DESARROLLO TERRITORIAL
- MANEJO Y ESPACIALIZACIÓN DE DATOS CENSALES A TRAVÉS DE SIG
- SISTEMAS DE INFORMACIÓN GEOGRÁFICA APLICADO A RIESGOS NATURALES
- PROCESAMIENTO DIGITAL DE IMÁGENES SATELITALES PARA LEVANTAMIENTO DE COBERTURA Y USO DE LA TIERRA. UTILIZANDO SOFTWARE LIBRE
- APLICACIONES ESPACIALES DE ALERTA TEMPRANA A EMERGENCIAS NATURALES
- INFRAESTRUCTURA DE DATOS ESPACIALES, METADATOS Y USABILIDAD
- SISTEMAS DE INFORMACIÓN GEOGRÁFICA, BÁSICO, INTERMEDIO Y AVANZADO, como una especialidad del CEPEIGE dedicada a instituciones públicas, privadas y universidades

PONTIFICIA UNIVERSIDAD CATÓLICA DEL ECUADOR

FACULTAD DE CIENCIAS HUMANAS ESCUELA DE CIENCIAS GEOGRÁFICAS FUNDADA EN: 1989

GRADOS QUE OFRECE: Ingeniería Geográfica y Maestría

ESTUDIANTES ACTUALES: Ingeniería: 220; Maestría: 96

DIRECTOR: Dr. Juan Hidalgo

PARA MAYOR INFORMACION ESCRIBIR A: Azucena Vicuña C., Escuela de Ciencias Geográficas, Facultad de Ciencias Humanas, Av. 12 de Octubre 1076 y Roca, Quito-Ecuador. Apartado Postal 17-01-2184. Teléfono: 593-2-2991700 ext. 1889, o al 593-2-2991626 Directo. E-mail: avicunaj@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 sobe 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.

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 gesti
 ón 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.

Maestría en Desarrollo Regional y Planificación Territorial.

Este programa presencial, se creó por Resolución del CONESUP en el 2006 y tiene por objetivo formar profesionales que logren un dominio

de los conceptos metodologías y herramientas de la planificación participativa del territorio para el fomento del desarrollo regional y local, en términos de sustentabilidad.

La estructura académica de este programa contempla módulos sobre: aspectos jurídicos y sociales; técnicas para diagnósticos, cartografía y planificación; aspectos ambientales; aspectos socioeconómicos; enfoque integrado de la—planificación; seminarios temáticos; práctica de campo; y práctica de tesis.

Mayor información del programa de Maestría se puede obtener en la página web de la PUCE o escribiendo a MSc. Olga Mayorga (ohmayorga@puce.edu.ec), Coordinadora del mismo.

Profesores/as: Se indica el nombre, áreas de interés o materias que dicta:

- Sheika Aragundi, Ph.D. Areas Protegidas, Ecología, Biogeografía
- Jorge Campaña, Lic. Desarrollo Sustentable, Impactos Ambientales, Educación Ambiental
- Fernando Barragán Master Sistemas de Información Geográfica, Cartografía Básica.
- Juan Hidalgo A, Dr. Teoría y Métodos de la Geografía, Enseñanza de la Geografía, Geografía Humana
- Fredy López, MSc. Desarrollo Sustentable, Fotointerpretación, Biogeografía, Geografía Física
- María Fernanda López, Ph.D. Geografía Política, Geografía Rural, Diseño y Evaluación de Proyectos, Espacio y Sociedad
- Magdalena López, Ph.D. Edafología, Geoquímica
- Galo Manrique, Mag. Ing Geología, Geomorfología, Riesgos Naturales, Cuencas Hidrográficas
- Milton Maya Econ, Economía
- Olga Mayorga, MSc. Planificación Local y Regional, Sistemas de Información Geográfica y Análisis Espacial, Geolinguística, Prospectiva Territorial
- Monserrath Mejía, Mag. Sistemas de Información Geográfica, Cartografía Estadística, Bases de Datos
- Santiago Mena, MSc. Sistemas de Información Geográfica, Cartografía Automatizada
- Carlos Nieto, Ph.D. Agroecología, Recursos Naturales; Proyectos.
- Enid Palacios, Master Estadística
- Aníbal Rovalino, Lic. Meteorología e Hidrología
- Víctor Pro, Master. Matemática
- Patricio Solís, Ing Agrónomo. Geografía Rural.
- Fernando Struve, Arq. Planificación Municipal
- Soledad Vásquez, Mgs. Espacio y Sociedad, Cartografía Temática.
- Azucena Vicuña, MSc. Geografía de la Población, Demografía, Geografía Urbana, Espacio y Sociedad, Metodología de la Investigación.
- Francisco Veintimilla, Master Legislación Ambiental
- Svetlana Zavgorodniaya, Ph.D. Geología, Geomorfología, Ordenamiento Territorial, Riesgos Naturales

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 (Mexico)

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 sociedadcultura-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 tutoral 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 ESCRIBIE 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 Socials, 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: Rodrigo Barriga-Vargas

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, D.F., 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 CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIE A: MARCO ANTONIO MORENO IBARRA, JEFE DEL LABORATORIO, Mexico, D.F., Telefono: 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 al 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 edifico 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 esten 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

PAN AMERICAN INSTITUTE OF GEOGRAPHY AND HISTORY (PAIGH)

DATE FOUNDED: February 1928 SECRETARY GENERAL: Rodrigo Barriga-Vargas

STRUCTURE AND ORGANIZATION. The organization structure of the PAIGH is: General Assembly, Directing Council, Meeting of Officers, General Secretariat, Commissions on Cartography, Geography, History and Geophysics, and National Sections.

(i) The General Assembly is the supreme organ of the PAIGH and determines the Institute's scientific, administrative and financial policies. (ii) The Directing Council is the Pan American organ of the PAIGH which is entrusted with the functions of the General Assembly during the intervals between meetings of the latter. (iii) Meeting of Officers is the organ that directs and coordinates the Institute's activities between the Meetings of the Directing Council. (iv) The General Secretariat is the PAIGH's central and permanent organ responsible for administration, coordination of organ activities, providing the necessary assistance for the proper functioning of said organs, execution of the tasks entrusted to it and ensuring compliance of the agreements adopted for the smooth functioning of the PAIGH. The Secretary General represents the PAIGH. (v) The Commissions are the organs entrusted with promoting the scientific and technical development of their respective fields of action in the Member States. They are also responsible for coordinating, encouraging and supervising projects and other agreements involving research approved by the General Assembly or the Directing Council. There are four Commissions: Cartography, Geography, History and

Geophysics, which are subdivided into Committees and Working Groups. (vi) The National Sections are entities established by each Member State, whose role is to fulfill the objectives of the PAIGH in the sphere of their respective countries.

OBJECTIVES: (i) To encourage, coordinate, and publicize cartographical, geographical, historical, and geophysical studies, as well as other related scientific studies of interest to the Americas. (ii) To promote and coordinate scientific and technical development, research, relations among institutions and specialists, studies and training in cartography, geography, history and geophysics. (iii) To promote and stimulate cooperation among the specialized institutions of the Americas and international organizations in its four fields of activity.

MEMBER STATES: Only American states may be full members of the PAIGH. The countries of other continents may request to be Permanent Observers. The PAIGH's 21 Member Countries are: Argentina, Belize, Bolivia, Brazil, Chile, Colombia, Costa Rica, Dominican Republic, Ecuador, El Salvador, Guatemala, Haiti, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, United States of America, Uruguay and Venezuela. The Permanent Observers are: France, Israel, Jamaica and Spain.

TRAINING AND FELLOWSHIPS: Through its Commissions, PAIGH offers a wide range of courses, workshops and conferences, directed to specialists and professionals in the areas of interest of the Institute, and in general to other professionals interested in those fields.

TECHNICAL-SCIENTIFIC PROGRAM:

The objective of the PAIGH's Technical Assistance Program is the implementation of specialized actions contributing to regional integration and sustainable development in specific subjects: climate change, territorial ordering and natural disasters.

FURTHER INFORMATION: PAIGH General Secretariat, Ex Arzobispado 29, Colonia Observatorio, México, D.F., Telephones (52-55) 5277-5791 / 5277-58888 / 5515-1910. Fax (52-55) 5271-6172 / E-mail: <u>CooperacionTecnica@ipgh.org</u> / http://www.ipgh.org.

*Also listed under Instituto Panamericano de Geografía e Historia (IPGH)

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 Area: Geionformatics, 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 Sening, Global Change, Hidrology Geomorphology*
- Bravo Peña, Luis Carlos. Ph.D., Centro de Investigación en Alimentación y Desarrollo A.C., Mexico — Landscape dinamics, 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
- Gutierrez 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 movility.
- 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, Mexico — 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, Mexico — 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, PhD.* 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/Geo grafia/Paginas/default.aspx http://www.geografiauaslp.com/

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIE 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 Socioadministrativas, 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 Geografia, 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 Geografia, Universidad Nacional Autónoma de México

UNIVERSIDAD AUTÓNOMA METROPOLITANA, CAMPUS IZTAPALAPA

COORDINATION OF HUMAN GEOGRAPHY

PROGRAM DATE FOUNDED: 2002

DEGREES OFFERED: B.A. in Human Geography; M.A. and Ph.D. are under construction.

MAJORS: Regional And Economic Geography, City And Culture; Environmental Studies.

HEAD: Dra. Rocío Rosales Ortega

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Coordinadora de la Licenciatura en Geografía Humana, Dra. Rocío Rosales Ortega, 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. Email: geouamizt@xanum.uam.mx. Information also available on

http://dcsh.izt.uam.mx/licenciaturas/geografia_humana/.

PROGRAMS AND RESEARCH FACILITIES: Faculties members develop research programs in different fields all oriented to human geography. Students are invited to participate in research program directed by faculties; Human Geography Laboratory facilities are opened to geography students, including GIS, qualitative methods, etc.; distance education will be developed soon.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The new program started on September-December on a trimester base; inscriptions to general admission exam are annual during March and July; the 12 trimester program will open each September; normal trimester consider 4 to 5 courses of 4 weekly hours each from 8am to 4 pm; foreign language are offered as obligatory courses since trimester 4th (English and French); after trimester 8th, students will choice one of 3 majors called "Integration Edges"): city and culture; regional and economic geography; environmental studies; optional courses can be taken in different schools, as engineering, biology, other social science disciplines, etc. Financial aid available through official programs (UAM-Federal Ministry of Education)

FACULTY (Basic Staff):

- Cristobal Mendoza Pérez, Ph.D. Kings College, London geography of population, quantitative methods.
- Rocio Rosales, Ph.D, National Autonomous University of Mexico (UNAM) — economic geography, regional planning, local economic development, political geography and geography of Mexico
- Ludger Brenner, Ph.D Universität Trier geography of tourism, environmental governance, environmental studies
- Pedro Sunyer, Ph.D University of Barcelona, Spain geography and history, epistemology of geography
- Martín Checa-Artasu, Doctor Ph.D University of Barcelona, Spain local economic development, urban geography.
- Alicia Lindón, Ph.D., El Colegio de México, México epistemology of geography, cultural geography, urban geography and qualitative methods.
- Armando García Chiang, Ph.D, University of Sorbonne, France economic geography, regional planning, political geography, geography of Mexico.
- Rafael Calderón Contreras, Ph.D. University of East Anglia environmental studies, cartography, GIS.
- Paula Soto, Ph.D, Catholic University of Chile urban geography, cultural geography, qualitative methods, gender studies.

COMPLEMENTARY STAFF:

Various faculties from different disciplines are working on a partial time basis; orientations are: social psychology, cartography, GIS and remote sensing, anthropology, sociology, history, economy, all related with the program's main human geography orientation. Some foreign teachers will be integrated temporary 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 **GRANTED 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 www.geografia.cucsh.udg.mx geografia.extension@csh.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 Márque-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-Kaczmareck, Dr., Academia de Ciencias de Polonia, 1981, Profesor-Investigador titular "C" geografía humana, desarrollo sustentable, ordenamiento territorial
- Luís 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 deGuadalajara, 2007, Profesor- Investigador titular "B" — geografía rural
- Elba Lomelí-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-Torreros, 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-Uribe, 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. Hildelgardo 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 promepProfesor-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-Muñóz, 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", Perfîl 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
- Serafín 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
- Luís Valdivia-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 EN DICIEMBRE DE 1998
- GRADOS QUE SE OTORGAN: Maestro en Geografia y Doctor en Geografia
- 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 tutoral, 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 ACADEMICO, REQUISITOS DE ADMISION, 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 titulo 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 titulo de Maestría en Geografía o disciplinas fines, 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 Secretaria 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 Ámsterdam — 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, Soborne, 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 Soborna — 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 Geoinformación 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.

UNIVERSIDAD AUTÓNOMA DEL ESTADO DE MÉXICO

FACULTAD DE GEOGRAFÍA

- **FECHA DE FUNDACION: 1970**
- PROGRAMAS DE ESTUDIO: Licenciatura, Maestria, 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, Teledeteccion y SIG <u>http://facgeografia.uaemex.mx/FacGeo/maestria_cartogra</u> <u>fia.php</u>

Maestría en Análisis Espacial y Geoinformática http://facgeografia.uaemex.mx/FacGeo/maeg/index_mae g.php

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIR A: Marcela Virginia Santana Juárez, Coordinación de Estudios Avanzados, Toluca, Estado de México, Telefono: 7222150255, Fax: 7222143182. 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 socioeconómico". 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 especial 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 cordinadora del programa es la Dra. Xanat Antonio Némiga. Contacto: <u>maegi.uaem@gmail.com</u>

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 se encuentra: Seminario aplicaciones 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_maeg.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 especial 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 Informacion 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 Marginacición.
- 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 Hernandez 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. Efrain 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 Hernadez — 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 Báez Geología y Geomorfología

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 desarrolloy 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
- Formulador 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 Ĝarcía 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 Chiriqui, Facultad de Humanidades, Departamento de Geografía, Estafeta Universitaria, República de Panamá, Provincia de Chiriqui, 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 Geografía, Geografía Regional de Panamá, Geografía Regional de América, Geografía Regional de Eurasia, Africa 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 Ios 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 ÉSPECIALIDAD 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 humanosambientales 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 Aguína 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 É. 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. Diez 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 Compultense 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.

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, Universidad 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 Liége, 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 Universitat 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 GEOGRAFIA: Mención en "Gestión y Ordenamiento Territorial"

PROGRAMA DE MAESTRADO FUNDADO EN: 1995. Con la mención en "Gestión y Ordenamiento Territorial" desde el 2003

- TITULOS OFRECIDOS: Magister DIRECTOR DE LA UNIDAD DE POSTGRADO FACULTAD DE CIENCIAS SOCIALES: Dr.
- Valdemar Espinoza COORDINADORA DE LA MAESTRÍA EN GEOGRAFÍA: Dra. Alicia Huamantinco

PARA PEDIR UN CATOLOGO 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, REQUISITIOS 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 Huamantinco 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

PUERTO RICO

UNIVERSITY OF PUERTO RICO

DEPARTMENT OF GEOGRAPHY DATE FOUNDED: Program, 1945; Department, 1968 DEGREES OFFERED: Bachelor GRANTED 5/1/05-7/31/06: 26 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: geografía@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 trough 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 Piedas 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-Milwuakee (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

TRINIDAD AND TOBAGO

UNIVERSITY OF THE WEST INDIES, ST. AUGUSTINE

FACULTY OF ENGINEERING DEPARTMENT OF GEOMATICS ENGINEERING AND LAND MANAGEMENT DATE FOUNDED : 1983

DEGREES OFFERED: BSc. Geomatics, BSc. Land Management (Valuations), MSc. Geoinformatics, MSc.Urban and Regional Planning; Certificate in Geographic Information System; Postgraduate Diploma in Land Administration.

CONTACT PERSONS: Dr. Bheshem Ramlal, Head of Department. bheshem.ramlal@sta.uwi.edu; Ms Monique Joseph, Secretary, geomaticsengineering.andlandmanagement@sta.uwi.edu.

CONTACT ADDRESS: Department of Geomatics Engineering and Land Management, Faculty of Engineering, The University of the West Indies, St. Augustine, Trinidad, West Indies. Phone: 18686622002 ext 82108/82109, Fax: 18686624414, email: geomaticsengineering.andlandmanagement@sta.uwi.edu, Website: http://sta.uwi.edu/eng/surveying/index.asp

PROGRAMS AND RESEARCH FACILITIES: The Department offers several programs to cater to the needs of the Caribbean region. These include a BSc. Geomatics, a BSc. Land Management (Valuations), MSc. Geoinformatics, MSc. Urban and Regional Planning, Certificate in Geographic Information Systems, Postgraduate Diploma in Land Administration, Master of Philosophy and Doctorate in Geoinformatics, in Urban and Regional Planning and in Surveying and Land Information. The Department through its program offerings and its research focuses on addressing the growing needs of the Caribbean region for Geomatics, Land Management, GIS and Physical Planning professionals and for related solutions. This is especially significant as many small island states are continuing their

efforts towards sustainable development and economic prosperity even in light of scarce resources due to the global economic slowdown and the threat of global climate change and sea level rise. These objectives require professionals who understand the spatial characteristics of, and the social, legal, economic, institutional and technical issues related to land and marine resources management. Furthermore they must have the education, methodologies and training to gather, manage, and analyze and use this information and contribute to the decision-making process effectively by developing various options for decision makers amongst others.

The Department has access to a wide array of facilities to support it academic programs and research efforts. The university has a modern library with an extensive collection of books and online databases that are available to students and researchers. In addition, the department has appropriate computer software, hardware and other equipment well suited to the needs of stakeholders.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System.Program duration: Undergraduate, 3 years; Master of Science, 18 months including Thesis; Master of Philosophy: 2-3 years, Doctor of Philosophy: 3-5 years including Dissertation.

Admission: Undergraduate Program: 6 Points on CAPE Examination or Equivalent; Graduate Programs: A BSc. degree in a related field with a GPA of 3.3 or higher. Financial Aid: Funding available to citizens of Trinidad and Tobago. Limited Funding available to Caricom Nationals.

FACULTY

- Opadeyi, Jacob, BSc, MSc (Lagos), MEng, PhD (New Brunswick), MBA (UWI), MRICS, Professor — Engineering Surveying, Geographic Information Systems, Land Administration
- Al-Tahir, Raid, BSc (Baghdad), MSc, PhD (Ohio State), MASPRS (USA), MRSPS PSoc (UK), Senior Lecturer — Photogrammetry, Spatial Analysis, Remote Sensing
- Mycoo, Michelle, BA (Hons) (UWI), MSc (Hong Kong), PhD (McGill), MTTSP, MISOCARP, Senior Lecturer — Land Use & Natural Resources Management, Coastal Zone Planning, Planning Law and Administration, Planning Analysis
- Ramlal, Bheshem, BSc (UWI), PGDip, MSc (ITC Netherlands), PhD (Maine), Cert. Ed. (UBC), MISTT, MRICS, Senior Lecturer — Cartography, Geographic Information Systems, Surveying
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- Grant, Ian BSc (UWI), External Lecturer Engineering Surveying Khan, Kameel, BSc (Polytechnic, London), FRICS, External Lecturer — Valuation
- Ramos, Ria, BSc (Hons) (UWI), MSc (South Bank), External Lecturer — Valuation
- Sultanti-Maharaj, Shelly, BSc, MSc (UWI), External Lecturer Introduction to Planning

Thomas, Deborah Heather-Dawn, BA, MSc (Oxford Polytechnic), PhD (Cambridge), Lecturer — Planning & Development

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 Ligüera,Presidente de la asociación, Convención Nº 1382 oficina 101.Montevideo, Urugual. Telefono: 598- 29018730, Fax: 598- 29018730,anpg@adinet.com.uyanpg@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 Nº se 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 reune anualmente para considerar memoria , balance y asuntos de interés según los fines de la Asociación.-Asamblea Extraordinaria:se reune 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 Nº 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 blances.-Comisión Electoral: se integra por 3 miembros titulares e igual Nº de suplentes. Dura dos años en su función. Tiene a su cargo lo relativo al acto eleccionario, 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 metológica. 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 campo. Organizar encuentros, talleres, conferencias y congresos nacionales, regionales e internacionales.

PROGRAMAS QUE SE OFRECEN: Area de cartografía: cursos de actualización semi presenciales, sobre el uso de la cartografía y los sistemas de información en el nivel secundario. Area se Astronomía: cursillo de Contenidos astronómicos aplicables a los cursos de Geografía de nivel Secundario. Area 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 a**ño**

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 ESCRIBIE 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: 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 tesistas. 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:

 $http://www.ucv.ve/humanidades/FHE2005/escuelas/geografia/index.h\ tm$

PROGRAMA Y FACILIDADES: Reglamento de ingreso de alumnos a la universidad central de Venezuela, capítulo I, disposiciones generales.

Artículo 1º 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 2º 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 3º 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. jesusprietom@yahoo.es Licenciado en Geografía. UCV, 1974, Profesor Asistente, en Cartografía y Catastro.
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Program Specialties	Associates	Masters	PhD	Certificate Program	Distance / Online Apricultural Geography	Applied Geography	Biogeography	Cartography	Climatology / Meteorology	resource Colliservation, Land Cultural Feedoov	Cultural Ecology Cultural Geography	Economic Development	Economic Geography	Environmental Studies	Gender	Geographic Education	Geographic Liought Geomornhology	GIS	GIS Certification Program	Hazards	Location Theory	Medical Geography	Physical Geography (General)	r tauting (negronat, 010att) Political Geography	Population Geography	Quantitative Methods	Regional Development	Recreation and Tourism		Kural Geography	Social Geography Transportation	Than Geography	Water Resources	North America	Middle America	South America	Europe A fri	Allica Acia	Australia Oceania	Polar World	Middle East	Former Soviet Union World Regional
UNITED STATES																																	1	4					4			
ALABAMA																																	4	4								
Auburn University	2	XX	2			Х	X	Х	X	Х	Σ	ζ	Х	Х	Х		X	XX		Х	Х	X	X	X	Х	X		X	Х			Σ	XΧ	. X	Х	Х	Х	X	Ĺ	\perp		X
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California State University, Chico	Σ	XX		Х	Х	X	Х	Х	XZ	X	Х	C .	Х	Х		Х	Χ	Χ	Х				XZ	X		Х	Х	2	XZ	Х	Σ	XX	X	Х	Х	Х	2	Κ	Х	-		Х
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San Diego State University	2	XX	X	Х		Х		Х	X	XZ	X			Х				Х	Х				X	ΧУ	Κ	Х		1	Х		Х	Σ	XΧ	. X	Х	Х	2	XΧ	ζ			
San Francisco State University	2	X X	C .	Х	Σ	XΧ	X	Х	X	Х	2	Κ	Х	Х	Х		XX	XX	Х	Х		Х	X	XУ	Κ	Х		-	Х		XZ	ХŻ	XX	X				X	ζ.			
Sonoma State University	2	X			Σ	ΧX	X			X	X	Х		Х			Z	XX					Х	Σ	Κ	Х		X	Х				Τ		Х	Х	2	Κ				
University of California, Berkeley	2	X	Х				Х	Х	Х		Σ	ΧX	X	Х			ХУ	XX		•	X		Х	Σ	Κ	Х			Х		Х	Σ	XΧ	X	Х	Х	2	XΧ	ζ.	Х		Х
University of California, Davis		Х	X		Σ	XX	X			XZ	X	Х	X	Х	Х			Х				Х	X	X		Х	Х		X	Х	2	XX	XΧ	. X	Х	Х	XZ	XΧ	X	X	Х	XX
University of California, Los Angeles		X X	X	Х		Х	X		X	X	Σ	Κ	Х	Х	Х	X	X	XX	Х		X		Х	Σ	XX	Χ	Х	1	Х		Х	Σ	XΧ	X		Х	ХУ	X X	(Х		Х
University of California, Santa Barbara	2	XX	X				Х	Х	X	Х		Х	X	Х			XZ	XX		Х	Х	X	X	Χ	Х	X	Х	-	Х		2	XX	XX	-								

Program Specialties	Associates	Bachelors	INTASICIS Ph D	Certificate Program	Distance / Online	Agricultural Geography	Applied Geography	Biogeography Cartooranhy	Climatoloov / Meteoroloov	Resource Conservation, Land	Cultural Ecology	Cultural Geography	Economic Development	Economic Geography	Environmental studies Gender	Geographic Education	Geographic Thought	Geomorphology	GIS CIS Contification Decement	GIS Certification Program	Historical Geography	Location Theory	Medical Geography	Physical Geography (General)	r tauning (negronat, 010an) Political Geography	Population Geography	Quantitative Methods	Regional Development	Recreation and Tourism	Remote Sensing	Rural Geography	Social Geography	I ransportation	Urban Geography	Water Resources	Ινοι μι Απιστισα Μάλη Δωστίσα	South America	Furne	Africa	Asia	Australia Oceania	Polar World	Middle East Extract Coviat I Inion	World Regional
University of Southern California		X	ΧУ	XΧ	XX		X	X	ХУ	Χ	X	Х		X	ΧУ	XX	Κ	Х	X	X	XX	Κ	Х	Х	2	XΧ	X	Х	Х	Х		Х	1	X	XУ	ζ	X	X	X				XУ	ζ
COLORADO																																												
University of Colorado, Boulder		X	ΧУ	XΧ	K			X	ХУ	Χ	X			X	Х			Х	X	X	Х			Х	2	XΧ	X	Х	Х	Х		Х		X	ΧУ	$\langle X \rangle$	(X	X	X	Х		Χ.	XУ	ζ X
University of Colorado, Colorado Springs		X	Х	Х	K		X	Х		Х	X	Х			Х	Х	Κ	Х	X	Х	Х	Κ		Х		Х	ζ.			Х			1	X	XУ	X X	ζ	\bot	Х					
University of Colorado at Denver		X	Х	Х	K		Х		Σ	Χ					Х	Х	Κ		X	X	Х		Х	1	Х								1	Х		X	Ϋ́		Х					
University of Denver		X	ΧУ	XX	XX			Х	Σ	Κ	Х		Х					Х	X	Х				X	Х	Х	X			Х			X	X	XУ	X X	Ϋ́	X	[
University of Northern Colorado		Х		Х	Κ	Х	X	X	X	Х		Х	Х	Х		Х	Κ		Х		Х	Κ		X	X X	XΧ	ζ.	Х		Х	Х		X	Х	ΧУ	X X	ζ X	X	[Х	Х	Χ.	Х	
CONNECTICUT																																												
Central Connecticut State University		X	Х	Х	Κ		X	X	X	Х		Х			ΧУ	XX	Κ		X	Х			Х	X	X X	Κ			Х	Х				Х	Σ	XΧ	(Χ	X	X	Х	Х		Σ	ζ
University of Connecticut		X	ΧУ	XΧ	Κ		Х			Х				X	Х	Х	Κ	Х	X	Х		Х	Х	Х		Х	X	Х	Х	Х					Σ	ζ		X	[
DELAWARE																																												
University of Delaware		X	ΧУ	XX	Κ				Σ	Κ	Х	Х		Х	Σ	XX	Κ		X	Х	Х	Κ		Х	2	Κ	Х			Х		Х		X	ΧУ	XΧ	ζ			Х		Х		
DISTRICT OF COLUMBIA																																												
Department of State																			Х						2	XΧ	ζ.			Х					Х			\bot				Х		Χ
George Washington University		X	Х	Х	Κ		Х								Х				X	Х				1	Х					Х			1	Х	2	ζ	Х		Х	Х		Χ.	Х	
National Council for Geographic Education																Х	K																					\bot						
FLORIDA																																												
Florida International University		X	ΧУ	ζ		Х					Х	Х		X	ΧУ	X			Х						2	Κ	Х		Х			Х	1	Х	2	X X	Ϋ́	X	X	Х			XУ	ζ
Florida State University		X	ΧУ	XΧ	K			X	X	Χ					Х				Х		Х	Х	Х		У	Κ	Х			Х			X	X	ΧУ	ζ		X			\square			
University of South Florida		X	ΧУ	XΧ	ζ.		Х	Z	ХУ	Χ			Х	X	Х	Х	ζ.	Х	X	X	Х	Х	Х	X	XУ	ζ	Х	Х		Х			X	X	XУ	X = X	(X	: X	X	Х		Χ.	Х	
GEORGIA																																												
Georgia State University	2	XZ	XX	X			X	XХ	XX	X				2	X			Х	XZ	X			Х	Х			Х			Х			2	X	Х									
Kennesaw State University		Х		Х	XX		X	X	ΧУ	Χ	X	Х	Х	Х		Х	Κ	Х	X	Х	Х	Κ		Х	2	XΧ	X	Х		Х		Х		Х	Σ	XΧ	(Χ	X	X	Х				Х
University of Georgia		X	ΧУ	XΧ	Κ			X	ΧУ	Χ				Х	Σ	ΧX	XX	Х	X	X	Х			Х	2	XΧ	X			Х			X	Х	ΧУ	XΧ	(Χ	X	X	Х	Х	Х		
HAWAII																																												
University of Hawaii at Manoa		X	XУ	XX	Κ	Х	X	X	XУ	ΧX		Х	Х	X	Χ			Х	Х					Х	2	Κ			Х	Х		Х						Х		Х		Х		Х
ILLINOIS																																												
Augustana College		Х						2	X	Х		Х		X	Χ			Х	Х		Х	Κ		X	X									X	Х		Х	<u> </u>				Х		

Program Specialties	Associates	Bachelors Masters	PhD	Certificate Program	Distance / Online	Agricultural Geography Annlied Geography	Biogeography	Cartography	Climatology / Meteorology	Kesource Conservation, Land	Cultural Ecology Cultural Geography	Economic Development	Economic Geography	Environmental Studies	Gender	Geographic Education Geographic Thought	Geomorphology	GIS	GIS Certification Program	Hazards Historical Geography	Location Theory	Medical Geography	Physical Geography (General) Planning (Regional Urhan)	Political Geography	Population Geography	Quantitative Methods	Regional Development	Kecreation and 1 ourism Remote Sensing	Rural Geography	Social Geography	Transportation	Urban Geography	Water Resources	North America Middle America	South America	Europe	Africa	Asia	Australia Oceania	Fuat wuru Middle East	Former Soviet Union	World Regional
DePaul University		Х		Х							Σ	Κ			Х			Х	Х				Σ	XX	C .			Σ	Χ			Х				Х		Х				
Eastern Illinois University		ΧУ	Κ	Х		Х	Х	X	Х		2	Κ	Х			Х	Х	X	Х				Х		Х			2	XX	ζ.				X X	X	Χ		Х		Х	-	Х
Elmhurst College		Х		Х									Х					Х	Х					Х	r L							Х		X	Х							
Illinois State University		ХУ	Κ	Х				Х			ХУ	Κ	Х	Х		Х	Х	X	Х	У	X		Х	Х	2		Х	ХУ	X	Х		Х	X	Х	Х		Х	П		Х		
Northern Illinois University		ΧУ	ΧX	Х	Х		Х	2	Х				Х	Х	Х			Х	Х	Х	Х	Х	ХУ	Χ		Х		Σ	Χ			Х	X	X		Τ		\square				Х
Southern Illinois University, Carbondale		ΧУ	ΧX						Х					Х				Х					Х					Σ	Χ				Х	Τ		Τ		\square				
Southern Illinois University, Edwardsville		ΧУ	Κ			Σ	XX	X	Х	Х	Σ	ΧX	X			Х	Х	X		Х		Х	Х	Х	X	Х		Σ	Χ			Х	X	X		Τ	Х	Х				
University of Illinois at Urbana-Champaign		ΧУ	ΧX			ХУ	XX	X		X	ΧУ	ΧX	X	Х		XХ	ΧХ	X		Х	Х	Х	ХУ	XX	X	Х	Х	Σ	Χ	Х	Х	Х	X	X	Х		Х	Х		Х		
Western Illinois University		ΧУ	Κ	Х		Σ	Κ	Х	Х	Х	Σ	ΧX		Х			Х	X	Х				ХУ	Χ	Х	Х		Σ	Χ			Х	X	X		Τ	Х	Х				
INDIANA																																		Τ								
Ball State University		ХУ	Κ	Х				Х	Х									Х	Х									ХУ	X									IП				
Indiana State University		ХУ	ΧX	Х		Σ	XX	2	Х					Х				Х	Х				Х					Σ	X			Х]	X	Х			IП		Х		
Indiana University		ХУ	ΧX	Х		Х	Х	C	Х	X	ХУ	ΧX	-	Х				Х	Х					Х	X	Х	Х	ХУ	XX	C		Х	X	X X	X	Χ	Х	Х			Х	Х
Valparaiso University		Х				У	XX	X	Х	Х	У	Κ	Х	Х			Х	X		У	X		ХУ	XX	2			Z	XX	XX	Х	Х]	X				Х				Х
IOWA																																										
The University of Iowa		ХУ	ΧX	Х		Σ	XX	2	Х	Х				Х				Х	Х	Х		Х	ХУ	Χ		Х		Σ	X				Х									
University of Northern Iowa		ХУ	Κ	Х		Σ	Χ	Х			Х		Х	Х		Х	Х	X	Х	Х			ХУ	Χ			Х	Σ	XX	ζ.	Х				Х		Х		Σ	ζ		Х
KANSAS																																										
Fort Hays State University	2	XX	ζ.	Х	Х	Х	Κ	Х	Х					Х				Х	X	Х			Х									Х	Ш									
Kansas State University		ХУ	ΧX	Х		Σ	XX	C .	Х	Х				Х		Χ	XX	X	Х	Х		Х	Х		Х	Х		Σ	XX	ζ.			Х	Х	X	Χ		Х				Х
University of Kansas		ХУ	ΧX					Х	Х	X	ХУ	Κ		Х		Χ	XX	X		У	X		Х	Х	Ľ.	Х	Х	Σ	X				X	XX	X		Х	Χ	ΧУ	ζ		Х
KENTUCKY																																										
University of Kentucky		ХУ	Χ	Х		Х	Х	X	Х		У	XX	X	Х	Х	Х	XX	X	Х	У	X	Х	ХУ	XX	X	Х		У	X	Х		Х		Х	Х	Х	Х	Х		Х		Х
University of Louisville		ХУ	Κ			2	Κ		Х				Х					Х				Х	Х			Х		2	Χ				Ш					Ш				
Western Kentucky University		ХУ	Κ	Х		2	Κ		Х		2	Κ		Х				Х	Х				Х								Х		X	X X	X			Х				
LOUISIANA																																										
Louisiana State University		ХУ	ΧX	Χ					Х		Σ	Κ	Х				Х	X	Х	У	X		Х					Σ	X				Ľ	ХX	X	Χ	Х	Х				
MAINE																																										

Program Specialties	Associates Bachelore	Masters	PhD	Certificate Program	Distance / Online Agricultural Geography	Applied Geography	Biogeography	Cartography	Climatology / Meteorology	Resource Conservation, Land	Cultural Ecology	Cultural Geography Economic Development	Economic Geography	Environmental Studies	Gender	Geographic Education	Geographic Thought	GIS	GIS Certification Program	Hazards	Historical Geography Location Theory	Location Thous Medical Geography	Physical Geography (General)	Planning (Regional, Urban)	Political Geography	Population Geography Onantitative Methods	Regional Development	Recreation and Tourism	Remote Sensing	Rural Geography	Social Geography	I ransportation	Utuan Ueography Water Recontrac	Worth America	Middle America	South America	Europe	Africa	ASIA Asia Oreania	Polar World	Middle East	Former Soviet Union	World Regional
University of Southern Maine	2	Х		Х		Х				Х			Х		Х			Х	Χ				Х	Х				Х	Х	Х			Х	Х		Х	Ц		\bot		\bot		
MARYLAND																																					Ц						
Frostburg State University	2	Х					Х	Х	Х	Х		X	Х	X			Х	Х	Κ	Х	2	X	Х	Х	Х	2	(Х	Х			X	X	XX		\square	Χ.	X Z	X	\perp	Х	\bot	Х
Salisbury University	2	XX							Х									X X	Κ	Х			Х	Х		Σ	Κ								\bot		Ц		\bot				
Towson University	2	XX				Х	X	Х	Х	Х		Х	Х	X			Х	XX	Κ	Х			Х	Х	Х	ХУ	Κ		Х			X	Х	Х	. X	Х	X	X]	XУ	ζ	Х	Х	Х
University of Maryland, Baltimore County	2	XX	X	Х			Х	Х	Х	Х	-	Х		Х	Х	Х		XX	XX	Х	Х	Σ	Χ		Х		Х		Х	Х	Х		X	XX		Х	Ш						Х
University of Maryland, College Park	2	XX	X	Х						Х	-	XХ	XΧ	X				Х	X	Х				Х	Х				Х							\square	Ц						Х
MASSACHUSETTS																																											
Clark University	2	X X	X		2	XX	X		Х	X	X	XХ	Χ	X	Х		Х	Х	Κ	Х			Х		Х	2	XX		Х	Х	X	X	XZ	XX	X	Х		X	Х	Х			
Mount Holyoke College	2	Х											Х	X				XX	Κ					Х	Х	Σ	XX		Х		Х		XZ	XX				X	Х		Х		Х
Salem State University	2	X X						Х	Х		2	Х	Х	X				Х	Κ				Х	Х				Х	Х				Х	Х	-		Ш						Х
University of Massachusetts Amherst	2	XX	X					Х	Х		-	Х	Х	X				Х	Κ				Х	Х				Х	Х				Х	Х	-								Х
Westfield State University	2	Χ		Х					Х					Х				Х	X				Х	Х		У	Κ	Х				X	Х										
Worcester State University	2	Х					Х		Х				Х	X				XX	Κ				Х											Х	-			Х		Х			
MICHIGAN																																											
Calvin College	Σ	X				Х		Х	X	Х	2	X	Х	Х		Х	X	XX			Х		Х	Х	Х				Х		Х	2	ХУ	X	-			Х					Х
Central Michigan University	2	XX	-	Х		Х	X	Х	Х		-	Х	Х	X		Х	Х	XX	Κ		Х		Х	Х	Х	ХУ	XX		Х	Х		X	XZ	XX	. X	Х	Х]	Х				Х
Eastern Michigan University	2	XX		X	Х	Х		Х	Х	X	X	ХХ	XX	X		Х		XX	X		Х		Х	Х	Х	ХУ	XX	Х	Х			X	XZ	XX	. X	Х	X	X	Х		Х	Х	Х
Grand Valley State University	2	Χ		Х	2	XX		Х		X	X	Х	Х	X				Х	X				Х	Х			Х		Х			X	Х	Х	. X	Х	X	X	Х		Х	Х	
Michigan State University	2	XX	X	Х	2	XX	X	Х	Х		-	Х	Х	X				XX	Χ		2	ХУ	ΧX	Х	Х	Σ	Κ	Х	Х			•	Х	Х		Х		X	Х	Х	X		Х
Northern Michigan University	2	Х		Х	2	XX	X	Х	Х	Х		Х	Х	X				XX	XX	Х			Х			ΧУ	Κ	Х	Х	Х			Х	Х	. X	Х	Х				Х		
Western Michigan University	2	XX		Х	2	XX	X		Х	Х		Χ	Х	X		Х		Х	Χ	Х			Х	Х				Х	Х			X	XZ	XX	. X	Х	X	X	Х				
MINNESOTA																																											
Gustavus Adolphus College	2	Х							Х			XX	Κ	Х				XX	Κ	Х			Х		Х				Х				XZ	X	Х	Х	X	Χ					Х
Macalester College	2	Х										Χ		Х	Χ			Х	Κ	Х		Σ	Κ		Х	ΧУ	Κ			Х	X	X	XZ	XX	-	Х		X	Χ				Х
Minnesota State University, Mankato	2	XX	-	Х		Х	X	Х	Х	Х		Χ	Х				Х	XX	X	Х	Х		Х	Х		Σ	Κ		Х	Х	X	X	XZ	XX	X	Х	X	X	Х				Х
St. Cloud State University	2	X X		Х			Х	Х			1	XX	XX	X				X X	XX		Х		Х	Х	Х		Х	Х	Х				Х	Х	X	Х	Х]	X			Х	Х
University of Minnesota, Twin Cities	2	XX	X			Х	X	Х	Х	X	X	XХ	XX	X	Х		Х	Х	Κ	Х	Х	Σ	X X	Х	Х	Σ	Χ	Х			X	X	X	XX	X	Х	X	X	Χ		Х		

Program Specialties	Associates Bachalore	Masters	PhD	Certificate Program	Distance / Online	Agricultural Geography Applied Geography	Biogeography	Cartography	Climatology / Meteorology	Resource Conservation, Land	Cultural Ecology	Cultural Geography	Economic Development Fconomic Geography	Environmental Studies	Gender	Geographic Education	Geographic Thought	Geomorphology	GIS Certification Program	Hazards	Historical Geography	Location Theory	Medical Geography Physical Geography (General)	Planning (Regional, Urban)	Political Geography	Population Geography	Qualituative Internous Regional Develonment	Recreation and Tourism	Remote Sensing	Rural Geography	Social Geography	Transportation	Urban Geography	Water Resources	North America	Middle America	South America	Europe A friga	Allica Acia	Australia Oceania	Polar World	Middle East	Former Soviet Union	World Regional
MISSOURI																																												
Northwest Missouri State University	Σ	ΧX		Х	Х	Х		Х	Х	Х		Х	Х	5			Х	XZ	XX	X			Х	ζ.	Х	2	X		Х			1	Х		Х	Х	XĽ	X	Х	Κ	Τ	Х		Х
University of Missouri, Columbia	2	XX	Κ	Х	Х	Χ	XX	Х		Х	Х	X	ΧУ	XΣ	Κ	Х	Х	X	XX	XX	X	Х	Σ	ΧX	Х	X	XZ	X	Х	X	X	Х	Х		Х	Х	X	ΧУ	ΧХ	Κ	Τ	Х		Х
MONTANA																																												
The University of Montana		XХ	Κ	Х		Σ	C	Х	Х			Х					\square	X	XХ	XΧ				Х		Х			Х	X	[Х	Х			2	ΧХ	ζ	Х	Х	Т	
NEBRASKA																																												
University of Nebraska, Lincoln	2	XХ	ΧX	Х		Х						Х					\square	X	XХ	C	Х		Σ	ΧX	Х				Х	1					Х						Τ		Т	
University of Nebraska, Omaha	2	XX	Κ	Х		Х	Х	Х	Х	Х			Σ	XΣ	ΧX	X		X	XX	XX			Σ	ΧX	Х]	Χ		Х	[Х	Х		Х]]	Χ			1			
NEVADA																																												
University of Nevada, Reno	2	XХ	ΧX				Х	Х	Х			Х	Σ	XΣ	ΧX	[Х	2	Χ		Х		Σ	Κ	Х				Х	1			Х	Х	Х	Х	X I	Χ	Х	ζ	Τ	Х	-	Χ
NEW HAMPSHIRE																																												
Dartmouth College	2	X					X	Χ	Х			Х	Σ	XΣ	ΧX	[Х	2	Χ		Х		Σ	Κ	Х				Х	2		1	Х	Х	Х	Х	XĽ	X	Х	Κ	Τ	Х	-	Χ
Plymouth State University	2	X		Х		Σ	ζ.					Х						2	XX	C			Σ	ΧX				Х	C									2	Κ	Х	X			
University of New Hampshire	2	X							Х	Х				Σ	Κ			2	Х		Х		Σ	Κ	Х										Х		Χ				Х	Х		
NEW JERSEY																																												
Rowan University	2	X		Х	Х	Х	C .	Х	Х	Х	Х	Х	Σ	XΣ	Κ	Х	Х	X	XX	XX	X	Х	У	ΧX	Х	X	XX	X	Х			Х	Х	Х	Χ	Х	X	ΧУ	ΧХ	Κ		X	X	Χ
Rutgers University	2	XX	XX	Х			Х	Х	Х	Х	Х]	ΧУ	XΣ	ΧX	2		2	XX	XX			ΧУ	Κ			Χ		Х		Х		Х	Х	Χ	Х	X	ΧУ	ΧХ	Κ	Х		Χ	
William Paterson University of New Jersey	2	X					Х	Х				Х	Σ	Κ				2	Х				ΧУ	Κ	Х	X	Χ		Х			Х	Х		Χ	Х	X	ΧУ	ΧХ	Κ		Х	-	Χ
NEW MEXICO																																												
New Mexico State University	Σ	X X				Х	X	Х		Χ	X	Х		Х	C	Х	Х	XX	X				Х	X		2	ΧХ	Κ	Х				Х	Х	Χ	Х	-	Χ	Х	Κ			-	Χ
University of New Mexico	Σ	XX								X	Х			Х	C			Z	X		Х		Х	ХХ		2	X		Х				Х	Х	Χ	Х	Х	Σ	Χ				-	Χ
NEW YORK																																												
Binghamton University, SUNY	2	XX	Κ			Х	C .	Х		Х		Х		Χ	Κ			2	Х	Х		Χ	Х	Х			Χ		Х				Х	Х	Х								-	Χ
Graduate Center, CUNY			Х	Х		Σ	K		Х	Х	Х	X	ΧУ	XΣ	ΧX	2	Х	X	XX	XX			ΧУ	ΧX	Х		Χ		Х	2	Х	Х	Х	Х	Χ	Х	Х	2	XΣ	Κ	Х		Χ	
Hofstra University	2	X										Х	Σ	Κ				1	Х													Х	Х		Χ	Х	X	X J	XΣ	Κ				
Hunter College, CUNY	2	XX	Κ	Х				Х	Х			Х	Σ	XX	XX	X	Х	XĽ	XX	XX		Χ	X	Κ		X	X		Х		Х	Х	Х	Х									-	Х
SUNY-Buffalo State	2	X				Х	XX	Х	Х	Х		2	XУ	XΣ	Κ			2	Х				Σ	XX			XZ	X	Х			Х	Х	Х	Х]	X	Х	Κ				
SUNY-College at Geneseo	2	X				Х	XX	Х	Х	Х		X	X	Χ	XX		Х	2	X		Х		Σ	XX	Х	-	XX	XX			Х		Х		Х	Х	Х	2	ΧХ	XX		Х		Χ

Program Specialties	Associates	Dacticious	PhD	Certificate Program	Distance / Online	Agricultural Geography	Applied Geography	Cartography	Climatology / Meteorology	Resource Conservation, Land	Cultural Ecology	Cultural Geography	Economic Development	Economic Geography	Environmental Studies Gender	Centrel Geographic Education	Geographic Thought	Geomorphology	GIS	GIS Certification Program	Hazards Historical Geography	Location Theory	Medical Geography	Physical Geography (General)	r tautung (Negtoliat, Utuati) Dolitical Geography	ronnear Ocography Population Geography	Quantitative Methods	Regional Development	Recreation and Tourism	Remote Sensing	Rural Geography	Social Geography	I Tansportation	Urban Ueograpny Wiatar Dacontrace	Water Kesources North America	Middle America	South America	Europe	Africa	Asia	Australia Oceania	Polar woria Middla East	INHUUIC East Former Soviet Union	World Regional
Syracuse University	2	ΧУ	Χ				X	XХ	XΧ	X		Х	Х	Х	X	XУ	Χ	Х	Х		ХУ	Κ	Х	X	X	XХ	XX			Х	Х	Х		X Z	XX	<u>.</u>	Х	Х	Х	Х		Ŋ	ζ X	<u>_</u>
United States Military Academy	2	Х		Х			Х	Σ	XΧ	X		Х			Х		Х	Х	Х	Х	ΧУ	Κ		X	XZ	X				Х				Х	X	X	Х	Х	Х	Х		2	<u> </u>	X
University at Albany, SUNY	2	ΧУ	Κ	Х			XĽ	XХ	XΧ	X		Х	Х	Х	X	X	Х		Х	Х	Σ	Κ		X	XZ	X	Х			Х		X	X	X]	Х		Х		Х	Х			\bot	
University at Buffalo, SUNY	-	ΧУ	Χ				XĽ	ХУ	Κ	Х	X	Х	Х	Х	X	X	Х	Х	Х		Х	Х	Х	Х		Х	XX	Х		Х		X	X	X Z	Х		Х			Х				Х
Vassar College	-	Х					2	ΧУ	Κ	Х		Х	Х	Х	2	X			Х					2	XZ	X	Х							Х	X	X	Х			Х				
NORTH CAROLINA																																												
East Carolina University		ΧУ	Κ	Х			Х		Х	X	X		Х		X	X		Х	Х	Х	Х			X	Х					Х	Х	Х		2	Х									
University of North Carolina, Chapel Hill		ΧУ	Χ	X			2	X	Х	X	X	Х		Χ	X	Χ	Х	Х	Х	Х	У	Κ	Х	Х	2	XX	XX			Х	Х	Х	•	XZ	XX	X	Х	Х	Х	Х	Х	Σ	ζ X	X
University of North Carolina, Charlotte		ΧУ	Χ	X			Х		Х				Х	Χ	Х			Х	Х	Х				X	X	X	Х	Х		Х		Х	•	XZ	XX	Ľ.								
Winston-Salem State University	-	Х					Х						Х											2	Х									Х	X	ζ				Х				
NORTH DAKOTA																																												
University of North Dakota	-	ΧУ	Κ	Х	Х		2	X	Х	X		Х	Х	Х	Х	Σ	Κ	Х	Х	Х	ΧУ	Κ		X	Х	Х	XX	Х	Х	Х			X	X Z	XX	ζ				Х				Х
OHIO																																												
Kent State University	-	ΧУ	Χ	X			Х		Х			Х		Х	Х		Х	Х	Х	Х	ΧУ	Κ	Х	X	XZ	X	Х	Х		Х		X	X	X Z	XX	X	Х	Х	Х	Х				Х
Miami University of Ohio		ΧУ	Κ	Х							Х	Х			X	Х		Х	Х	Х					X	XХ	Κ			Х				X I	XX	<u>.</u>		Х	Х	Х			\bot	
Ohio University		ΧУ	Κ	Х		•	XĽ	XХ	XΧ	X	X	Х	Х	Х	X	Х	Х	Х	Х	Х	ХУ	Κ		X	X	XХ	XX	Х		Х	Х	Х		Х	X	<u>.</u>	Х	Х	Х	Х]	X	\bot	X
Ohio Wesleyan University		Х				•	Х	Σ	XΧ	2		Х		Х	Х				Х					Х						Х		Х		Х	X	<u>.</u>	Х						\bot	
The Ohio State University	2	ΧУ	Χ				X	XХ	XΧ	X		Х		Х	Х		Х		Х			Х	Х	Х	2	XХ	XX			Х		X	X	Х	X	<u>.</u>		Х	Х	Х	XZ	X	\bot	
The University of Toledo		ΧУ	XΧ	X					Х	X		Х	Х	Х		Σ	Χ		Х	Х	У	XΧ			Х		Х	Х		Х			X	X]	X X	<u>. </u>	Х	Х		Х				X
OKLAHOMA																																												
East Central University		Х				•	Х	Σ	Κ							Σ	Κ		Х																X	<u>.</u>							\bot	
Oklahoma State University	2	ΧУ	Χ	X	Х	X	X	XХ	XΧ	X	X	Х		Х	Х			Х	Х	Х	У	Κ		X	X	X	Х		Х	Х			X	X 2	XX	X	Х	Х	Х	Х	Х	2	$\langle X$	X
OREGON																																												
Oregon State University		ΧУ	XΧ	X	Х	X	X	XX	XΧ	X	X				Х			Х	Х	Х	Х	Х		X	Х	\perp	Х			Х	Х				XX	X	Х	Х	Х	Х	$ \bot $	\bot	\perp	Х
Portland State University		ΧУ	XΧ	X			X	XX	XΧ	X	X	Х			Х	У	XΧ	Х	Х	Х				Х			Х	Х		Х				X Z	XX	<u> </u>	Х	Х		Х	$ \rightarrow $	\bot	\perp	Х
PENNSYLVANIA																																												
Bucknell University		Х				Х]	X			Х	Х	Х	Х	X	X			Х		ХУ	ζ	Х	Х	2	X						Х		Х	X	X	\bot	Х]	X	\bot	Х
California University of Pennsylvania									Х										Х		Х								Х															Х

Program Specialties	Associates	Masters	PhD	Certificate Program	Distance / Unline A originational Geography	Applied Geography	Biogeography	Cartography	Climatology / Meteorology	Kesource Conservation, Land	Cultural Ecology Cultural Gaography	Economic Development	Economic Geography	Environmental Studies	Gender	Geographic Education	Geographic Thought	GIS	GIS Certification Program	Hazards	Historical Geography	Location Ineory	Physical Geography (General)	Planning (Regional, Urban)	Political Geography	Population Geography Outsitistive Methods	Regional Development	Recreation and Tourism	Remote Sensing	Rural Geography	Social Geography	l ransportation	Urban Geography	Water Kesources Morth America	Middle America	South America	Europe	Africa	Asia	Australia Oceania	Foiat wouu Middle Fast	Former Soviet Union	World Regional
Edinboro University of Pennsylvania	2	Х					Х	Х	Х	Х	2	XX	XX	X				Х	K				Х	X	Х	XZ	XX		Х			Х	Х	ХУ	XΧ	. X		Х	Х	Х			Х
Indiana University of Pennsylvania		XX	2	Х			Х	Х		Х	2	XX	XX	X				Х	XX				Х	X					Х			Х	Х	ΧУ	XΧ	. X		Х	Х				Х
Kutztown University		Х				Х	C .	Х	Х	Х	2	Χ	Х	Χ				Х	K	Х		1	XX	X	Х	2	Χ		Х				Х	Х	ζ	Х	Х	Х					
Millersville University		Χ				Х	C.							Х		Х		Х	K					Х			Х							У	XΧ	. X	Х	Х					Х
Shippensburg University of Pennsylvania		XX	2	Х			Х	Х	Х	Х	2	Χ	Х	Χ				XX	XX		Х	1	XX	X		2	Χ		Х			Х	Х	ХУ	XΧ	. X	Х	Х	Х		Х	Ľ.	Х
Temple University		XX	X	Х				Х		Х		Х	X X	Χ	Х		Х	Х	XX	Х	Х	1	Χ	Х		2	XX				Х	Х	Х	ХУ	ζ	Х		Х	Х			Х	
The Pennsylvania State University		XX	X	Х	Х		Х	Х	Х	X	X	XX	X X	Χ	Х	Х	Х	Х	XX	Х	Χ	Х	Х	2	Х	XZ	Χ		Х		Х	Х	Х	ХУ	XΧ	. X		Х	Х				
University of Pittsburgh at Johnstown		Х		Х				Х					Х	Χ					Х				Х	X	Х	Х			Х				Х	ХУ	ζ		Х	Х			Х	X	Х
Villanova University		Х								Х				Х				Х					Х	2		Х								Х	ζ			Х					
West Chester University		XX	ζ.	Х	Х	Х	X			Х			Х	X	Х			Х	XX	Х			Х	X		2	Χ						Х		Х	. X	Х						Х
SOUTH CAROLINA																																											
University of South Carolina		XX	X	Х		Х	X	Х	Х	X	X	Χ	Х	Χ	Х	Х		XX	XX	Х	Х	2	XX	<u> </u>	Х	XZ	XX	X	Х		Х		Х	ХУ	ζ	Х	Х	Х			Х	X	
SOUTH DAKOTA																																											
South Dakota State University	1	XX	X	Х							Х							Х	Χ	Х			Х	C .	Х	Х			Х				Х	XХ	ζ		Х	Х					
TENNESSEE																																											
University of Memphis	2	XX	Х	Х		Х			Х				Х	Х	Х		2	XX	X	Х		Σ	XX	Х		Σ	K		Х			X	X	Χ									
University of Tennessee, Knoxville	2	XX	X			Х	X		Х	X	X	X	Х	X		Х	X	X X	ζ.	Х	Х		Х	X	Х	X	Χ	Х	Х		Х	Х	Х	X X	XΧ	. X	Х	Х	Х			\bot	Х
TEXAS																																											
Texas A&M University	2	XX	X	Х									Х	Χ	Х	Х	X	XX	ζ.		Х				Х				Х					X	XΧ	. X	Х		Х	\perp	X	<u> </u>	
Texas Christian University	2	X				Х	[2	X	Х					Х	ζ.							Х							Х	XX	XΧ	. X	Х		Ц	\perp		\bot	
Texas State University, San Marcos	2	XX	X	Х		Х	X	Х	Х	X	Х			Х		Х		XX	XX	Х	Х	2	XX	X	Х	X	X	Х	Х	Х			Х	XX	XΧ	. X			Ц	\perp		\bot	Х
Texas Tech University	2	XX	X	Х				Х	Х	Х			Х		Х	Х		XX	XX				Х	[Х		Х		Х	XX	ζ				Ц	\perp		\bot	Х
University of North Texas	2	XX	X	Х	2	XX	X	Х	Х	X	X	XX	XΧ	Χ	Х	Х	X	XX	XX	Х	Χ	X	XX	X	Х	X	XX		Х	Х	Х	Х	Х	XX	XΧ	. X	Х	Х	Х	X Y	$\langle X \rangle$	<u> </u>	Х
University of Texas at Austin]	XX	X		2	X	Х		Х	X	X	XX	ζ	Х	Х		X	XX	ζ.	Х	Х	X	XX	X	Х	X	XX		Х	Х		Х	Х	XX	X	. X	Х	Х	Ш	2	ζ	\bot	Х
The University of Texas at San Antonio		XX	[Х	X	Х		Х	2	X	X	X				Х	ζ				Х	X	Х	Х			Х				Х	XX	(X		Х		Ц	_	X	<u>. </u>	Х
UTAH																																											
Brigham Young University		X		\square		X	X	Х	Х	X	X	X	X	X		Х		XX	ζ.	Х	Х		X	X	Х	XZ	X	Х	Х		Х		Х	Х	XΧ	. X	Х	Х	Х	Х	X	X	Х
Southern Utah University		Х		Х				Х]	Х				Х		Х	XX				Х											X	ζ.								Х

Program Specialties	Associates	Bachelors Masters	PhD	Certificate Program	Distance / Online	Agriculuiral Geography Annlied Geography	Biogeography	Cartography	Climatology / Meteorology	Resource Conservation, Land	Cultural Ecology	Cultural Geography	Economic Development	Economic Ocography Environmental Studies	Luvitonum suures Gender	Geographic Education	Geographic Thought	Geomorphology	GIS	GIS Certification Program	Hazards	Tristorical Ueography	Medical Geography	Physical Geography (General)	Planning (Regional, Urban)	Political Geography	Population Geography	Qualititative Internous Regional Develonment	Recreation and Tourism	Remote Sensing	Rural Geography	Social Geography	Transportation	Urban Geography	Water Resources	North America	Middle America	South America	Europe	Africa	Asia	Australia Uceania	Pual wulu Middle Fast	Former Soviet Union	World Regional
University of Utah	2	XX	Χ	Х			Х	Χ		Х				XZ	X			Х	Х	Х	Х		Х	X			XZ	Χ		Х	Κ			Х		\square									
Utah State University	2	XX								Х				2	X				Х		Х																Х								
Weber State University	2	Х				2	Κ	Х	Х	Х		X	X	XZ	X	Х	XX		Х		2	Х		Х	Х		2	X						Х	Х	Х	Х	Х	Х	Х	Х	2	X X	ζ X	Х
VERMONT																																													
Middlebury College		Χ						Х				X	X	XZ	ХУ	X			Х		2	Χ	Х			Х	XZ	Χ			Х	Κ		Х		Х	Х		Х	Х			X	ζ	Х
University of Vermont	1	Х				ХУ	Χ		Х	Х	Х	X	Х	2	ХУ	XX	XX	Χ	Х		Х			Х	Х	Х	2	Χ		Х	XΧ	XΧ	X	X	Х	Х	Х		\square	Х	Х	2	ζ		Х
VIRGINIA																																													
George Mason University		XX	Χ	Х		У	ΧX	Χ	Х	Х			-	XZ	X	Х	XX		Х	Х	2	ХУ	XX	X	Х	Х	XZ	Χ		Х	Κ	Х	X	X	Х	Х	Х	Х	Х	Х	Х		X	ζ	Х
James Madison University		Х					Х	Χ	Х	Х				2	X						Х				Х	Х				Х	Κ			Х	Х		Х		Х	Х	Х				
Old Dominion University		XX		Х		У	ΧX	Χ	Х	Х		Х	-	XZ	ХУ	XX	XX		Х	Х	Х			Х	Х	Х				Х	Κ	Х	2	Х		Х	Х	Х	Х	Х	Х		X	ζ	Х
University of Mary Washington		XX		Х		У	Κ	Х	Х			Х	-	Х	Σ	X			Х	Х	Х			Х	Х	Х	2	ХУ	X	Х	Κ					Х		Х			Х				Х
University of Richmond		Χ					Х			Х			Х	2	X				Х					Х		Х		Σ	Χ						Х	Х	Х	Х					Х	ζ	
WASHINGTON																																													
Central Washington University		XX		Х			Х	Χ		Х	Х		-	XZ	X			Х	Х	Х	2	Χ		Х	Х		2	Χ	Σ	XX	XX	Κ	Х	C .	Х	Х	Х	Х	Х		Х		X	ζ X	
Eastern Washington University		Χ		Х										2	X				Х	Х				Х		Х					Х	Κ		Х	Х	Х	Х	Х					X	ζ	
University of Washington		XX	Χ							Х	Х	X	X	XZ	ХУ	X	Х		Х				Х			Х	XZ	ХУ	X		Х	XX	2	Х		Х	Х	Х		Х	Х				
Western Washington University		XX		Х		ХУ	ΧX	Χ	Х	Х		Х	-	XZ	X	Х	XX		Х	Х	X	Χ			Х		XZ	ХУ	ХX	XX	XX	Κ	Х	X	Х	Х	Х	Х	Х	Х	Х		X	ζ	Х
WEST VIRGINIA																																													
Concord University		Χ					Х			Х		Х				Х	Κ		Х					Х			Х	Σ	Χ					Х		Х		Х	Х	Х	Х		X	ζ X	
Marshall University		XX		Х	Х				Х	Х		Х	-	XZ	X				Х	Х			Х	X	Х	Х	XZ	Χ		Х	XX	XX	5	Х		Х	Х	Х	Х	Х				Х	Х
WISCONSIN																																													
University of Wisconsin-Eau Claire		Х		Х			Х	X	Х	Х		Х	1 1	XZ	X		Х	Χ	Х	Х	X	Х		Х		Х	1	Χ	Σ	XX	Κ			Х	Х	Х	Х		Х		Х		Х	ζ	
University of Wisconsin-La Crosse		Х					Х	Χ	Х	Х		Х		XZ	X	Х	K	Х	Х		Х			Х		Х	XZ	Χ		Х	Κ			Х	Х	Х	Х		Х	Х	Х	2	X X	ζ	Х
University of Wisconsin-Milwaukee		XX	Χ	Х			Х		Х			X	XI	XZ	ХУ	X			Х	Х				Х		Х				Х	Κ			Х	Х	Х			Х		Х				
University of Wisconsin-Oshkosh		Х		Х							Х	Х								Х				Х															Х	Х					
University of Wisconsin-Platteville		Х					Х																																						
University of Wisconsin-River Falls		Х		Х				Х	Х			Х	-	Х					Х	Х	1	Х		Х		Х	XZ	X		Х	Κ				Х				Х	Х	Χ	Х			
University of Wisconsin-Stevens Point		Х		Х		Σ	Κ	Х											Х	Х				Х	Х					Х	Κ				Х										

Program Specialties	Associates	Dachelois Masters	DhD	Certificate Program	Distance / Online	Agricultural Geography Amlied Geography	Biogeography	Cartography	Climatology / Meteorology	Kesource Conservation, Land	Cultural Ecology Cultural Geography	Curturar Ocography Economic Development	Economic Geography	Environmental Studies	Gender	Geographic Education	Geographic Thought	GIS	GIS Certification Program	Hazards	Historical Geography	Location Theory Medical Geography	Physical Geography (General)	Planning (Regional, Urban)	Political Geography	Population Geography Onantitative Methods	Regional Development	Recreation and Tourism	Remote Sensing	Rural Geography	Social Geography Transportion	I ransportation	UI DAIL UEOBLAPILY Water Paconirras	North America	Middle America	South America	Europe	Africa	Asia Anetralia Oreania	Polar World	Middle East	Former Soviet Union	World Regional
University of Wisconsin-Whitewater	-	Х		Х		2	Χ	Х	Х	X	XZ	Χ	Х	Χ	Х			XX	X		Х		Х	Х		Х			Х				XZ	ΧX	. X	Х			Х				<u> </u>
WYOMING																																											
University of Wyoming		XX	C.	Х		2	XX	X	Х	Х		Х	XX	Χ				XX	Х	Х			Х	Х	Х	У	Κ		Х				2	ΧX									
CANADA																																											
ALBERTA																																											
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Program Specialties	Associates	Bachelors Masters	PhD	Certificate Program	Distance / Online	Agricultural Geography	Applied Geography Biogeography	Diogeography Cartography	Climatology / Meteorology	Resource Conservation, Land	Cultural Ecology	Cultural Geography	Economic Develophient Fronomic Geography	Economic Ocography Environmental Studies	Gender	Geographic Education	Geographic Thought	Geomorphology	GIS GIS Certification Prooram	UIS CULINCAUON LOGIANI Hazards	Historical Geography	Location Theory	Medical Geography	Physical Geography (General)	r taining (regional, Otbair) Political Geography	Population Geography	Quantitative Methods	Regional Development	Recreation and Tourism	Remote Sensing	Kural Geography	Social Geography	I Tansportation	UI Dall Ucogi apily Water Recontras	Water Resources North America	Middle America	South America	Europe	Atrica	ASIA Australia Oreania	Ausuana Ucanna Polar World	Middle East	Former Soviet Union	World Regional
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Program Specialties	Associates	Bachelors Masters	DhD	Certificate Program	Distance / Online	Agricultural Geography	Applied Geography	Biogeography	Cartography	Climatology / Meteorology Recourse Concervation Tand	Cultural Ecology	Cultural Geography	Economic Development	Economic Geography	Environmental Studies	Gender	Geographic Education	Geographic I hought	GIS	GIS Certification Program	Hazards	Historical Geography	Location Theory	Medical Geography Physical Geography (General)	Planning (Regional, Urban)	Political Geography	Population Geography	Qualituative Methods Regional Develonment	Recreation and Tourism	Remote Sensing	Rural Geography	Social Geography	Transportation	Urban Geography	Water Resources	North America	Middle America	Dould Allicited Firme	Africa	Asia	Australia Oceania	Polar World	Middle East	Former Soviet Union	World Kegional
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Program Specialties	Associates	Bachelors	Masters	PhD Cortificate Decorross	Cetuncate Frogram Distance / Online	Agricultural Geography	Applied Geography	Biogeography	Cartography	Climatology / Meteorology	Resource Conservation, Land	Cultural Ecology	Cultural Geography	Economic Development	Economic Ocography Environmental Chidiae	Environmentat studies Gender	Geographic Education	Geographic Thought	Geomorphology	GIS	GIS Certification Program	Hazards Historical Gaography	Location Theory	Medical Geography	Physical Geography (General)	Planning (Regional, Urban)	Political Geography	Population Geography	Qualititative pretious Regional Develonment	Decreation and Touriem	Remote Sensing	Rural Geography	Social Geography	Transportation	Urban Geography	Water Resources	North America	Middle America	South America	Europe	Africa	Asia	Australia Uceania	POIAT WOLIU Middle Fact	Former Soviet Union	World Regional
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Program Specialties	Associates	Bachelors	Masters	PhD Contificate Decomo	Unistance / Online	Agricultural Geography	Applied Geography	Biogeography	Cantography Climatology / Meteorology	Resource Conservation, Land	Cultural Ecology	Cultural Geography Foonomic Davialonment	Economic Geography	Environmental Studies	Gender	Geographic Education	Geographic Lhought	GIS	GIS Certification Program	Hazards	Historical Geography	Location 1 neory Medical Geography	Physical Geography (General)	Planning (Regional, Urban)	Political Geography	Population Geography Onantitative Methods	Regional Development	Recreation and Tourism	Remote Sensing	Rural Geography	Social Geography	1 Iallspottation Urban Geography	Water Resources	North America	Middle America	South America	Europe	Allica Asia	Australia Oceania	Polar World	Middle East	Former Soviet Union Warld Regional	
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Pontificia Universidad Católica del Peru	Х	Х																																									
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PUERTO RICO																																											
University of Puerto Rico		Х																																									
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TITLES OF THESES AND DISSERTATIONS COMPLETED 2013-2014

UNITED STATES

ALABAMA

AUBURN UNIVERSITY

Masters (Science):

- Cederholm, Alyson. "A Hurricane Risk Assessment for Chatman County, Georgia" (Chaney, 2014)
- Park, Holly. "Koreabama: Exploring the Recent Social and Landscape Impacts of South Korean Migration Trends and Patterns in the Rural South" (Alexander, 2014)
- Rahman, Mahjabin. "Growth of Alabama Urban Areas and its Impact on Changing Environmental Dynamics" (Mitra, 2014)

UNIVERSITY OF ALABAMA

Masters (Science):

- Cowden, Merrit M. "The Effects of Intermediate-Scale Wind Disturbance on Forest Composition, Structure, and Succession with Implications for Management." (Justin L. Hart, 2014)
- Englebert, Chad G. "If We Win, We'll Roll All Night: A Study of Emergency Medical Calls in Tuscaloosa, Alabama on the Weekend of the Alabama Football Game, 2006-2012." (Joe Weber, 2013)
- Ford, Gene A. "Social Engineering through Spatial Engineering: Special Purpose Roads for the Safety, Health, and Well-Being of the Community in New Company Town Planning." (Jeffrey P. Richetto, 2014)
- Haney, Nicholas R. "Determining Long Term Bench Stability Along Streams of the Southern Piedmont Using Hydrodynamic and Hydrologic thresholds." (Lisa Davis, 2014)
- Harper, Matthew "An Examination of Historic Wetland Loss in Northern Mississippi Flood planes Using General Land Office Surveys." (Joe Weber, 2013)
- Jing, Xuehan "Modeling and Analyzing Land Use and Land Cover Change in Metropolitan Birmingham Area Using Landsat TM, OLI Date." (Luoheng Han, 2014)
- Mason, Jonathan B. "Proposing a Tornado Scale." (Jason Senkbeil, 2014)
- Vaughn, Ryan S. "Hydro-Geomorphological Influences on Plant Patch Density and Distribution in Bedrock Shoal Habitats of the Cahaba River, AL" (Lisa Davis, 2014)
- Weber, Thomas "Influence of Gap-Scale Disturbance on Development and Succession in a Cumberland Plateau Quercus-Pinus Forest." (Justin L. Hart, 2014)

White, Stephen D. "Influence of Intermediate-Scale Wind Disturbance on Development and Succession in Quercus Stands on the Cumberland Plateau." (Justin L. Hart, 2014)

UNIVERSITY OF NORTH ALABAMA

Masters (Science):

Leavitt, C. Martin, "Examining Student Severe Weather Behavior During a Hypothetical Tornado Scenario." Dr. David Brommer, Dr. Jonathan Fleming, Dr. Gabriela Carrasco, 2014.

ARIZONA

ARIZONA STATE UNIVERSITY

PhDs:

- Kitson, Jennifer "Matter and Matterings in Historic Habitation" (Kevin McHugh, 2013)
- Larson, Phillip "Desert fluvial terraces and their relationship with basin development in the Sonoran Desert, Basin and Range: Case studies from south-central Arizona." (Ron Dorn, 2013)
- Turner, Victoria "Sustainable Urbanism: An Integrative Analysis of Master Planned Developments as a Vehicle for Urban Environmental Sustainability" (Patricia Gober, 2013)
- Hwang, Myunghwa "Tile-based methods for online choropleth mapping: a scalability evaluation" (Luc Anselin, 2013)
- Hamdan, Abeer "Damming Ephemeral Streams: Understanding Biogeomorphic Shifts and Implications to Traversed Streams due to the Central Arizona Project (CAP) Canal, Arizona" (Mark Schmeeckle, Soe Myint, 2014)
- Kaplan, Shai "Natural Desert and Human Controlled Landscapes: Remote Sensing of LULC Response to Drought" (Soe Myint, 2014)
- Min, Bogyeong "Are dense communities more equitable?" (Janet Franklin, 2014)

Masters (Arts):

- Nolte, Jessica "The 500hPa Wintertime Pacific Ridge: Characteristics of Position and Intensity and its Influence on Southwest U.S. Precipitation" (Randall Cerveny, 2013)
- Liau, Yan-Ting "Evaluation of hierarchical segmentation for natural vegetation: a case study of the Tehachapi Mountains, California" (Janet Franklin, 2013)
- James, Jennifer "Modeling Suitable Habitat Under Climate Change for Chaparral Shrub Communities in the Santa Monica Mountains National Recreation Area, California" (Janet Franklin, 2014)

UNIVERSITY OF ARIZONA

PhDs:

- Davis, Brittany "Angling for Inclusion: Marine Conservation, Local Knowledge, and Tourism on Utila, Honduras." (Elizabeth Oglesby, 2014)
- Elkekli, Fuzia "THE IDENTITY OF THE MEDINA, TRIPOLI, LIBYA: CONSERVATION AND URBAN PLANNING FROM THE NINETEENTH CENTURY TO THE PRESENT." (Gary Christopherson, 2014)
- McCormack, Jennifer "Chasing the Raven: Practices of Sovereignty in Non-State Nations." (Sallie Marston, 2014)
- Peloquin, Claude "Unruly Nature, Technological Authority, and Development: Governing Locust Swarms in the Sahel." (Sallie Marston, 2013)
- Pianalto, Frederick S. "Estimating sources of Valley Fever propagation in southern Arizona: a remote sensing approach." (Stephen Yool, 2013)
- Prieto Montt, Manuel Jose "PRIVATIZING WATER AND ARTICULATING INDIGENEITY: THE CHILEAN WATER REFORMS AND THE ATACAMEÑO PEOPLE (LIKAN ANTAI)." (Carl Bauer, 2014)

- Slack, Jeremy "Deportation is Violence: Immigration Enforcement's Fallout on the Border." (Elizabeth Oglesby, 2014)
- Tecklin, David "Environmental Governance and the Politics of Property on the Chilean Coastline." (Carl Bauer, 2014)

Masters (Arts):

- Apicella, Morgan "Tierra Y Libertad, Community Organizing and the Metabolic Politics of Social Reproduction." (Sallie Marston, 2014)
 - Herwehe, Lauren "Science, Social Capital, and Small-scale Irrigated Agriculture: Mitigating drought vulnerability in semi-arid northeast Brazil." (Christopher Scott, 2014)
- Gay-Antaki, Miriam "A Feminist Political Ecology of Carbon Projects in Oaxaca, Mexico." (Diana Liverman, 2013)
- Kelly, Sarah "The Codependence of Land Tenure and Sanitation Access in Nogales, Sonora." (Sallie Marston, 2013)
- Lowen, Matthew "Maximum-Security Prisons: The Reel v. the Real." (Sallie Marston, 2014) Miller, Kyle "A multi-millennial precipitation reconstruction at Black Mountain, CO." (Connie Woodhouse, 2014)
- Nichols, Carly "Hidden Hunger: A Political Ecology of Food and Nutrition Security in the Kumaon Hills." (Vincent Del Casino, 2014)

CALIFORNIA

CALIFORNIA STATE UNIVERSITY

Masters (Arts):

- Bettis, Owen "Appropriate representation of traditional ecological knowledge in the Western legal framework" (Mark Stemen, 2013)
- Buttrey, Catherine "Road characteristics that influence the incidence of large mammal-vechicle collisions on Colorado State Route 160A" (Don Hankins, 2013)
- Larson, Daniel "Quantifying and mapping changes in hydrologic ecosystem services from a large magnitude wildfire in Shasta and Tehama counties, California" (Dean Fairbanks, 2014)
- Marlowe, Devon "An assessement of Census 2000 commuter patterns for the promotion of commuter rail in California's Central Valley" (Nori Sato, 2013)
- Muse, Paul "Factors influencing children's mode of travel: a case study of walking and biking to school at Paradise Elementary, Paradise, California" (LaDona Knigge, 2014)
- Patterson, Marie "Energy use and existing buildings: an electricity assessment at California State University, Chico" (Mark Stemen, 2013)
- Salter, Philip "Planning for off-highway vehicle use at the county level: a staff report to the planning department of Nevada County, California" (Jacque Chase, 2013)
- Wright, Juliana "Valuing recreational water releases on the North Fork of the Feather River: a travel cost study" (Peter Tsournos, 2014)

CALIFORNIA STATE UNIVERSITY, LONG BEACH

Masters (Arts):

- Flaherty, Kevin N.. Assessing public use of spatial data in Long Beach, CA. 2014.
- Hogg, Jeannine H..An assessment of social vulnerability in Yuba County, California. 2014.
- Jensen, Daniel. Spatial analysis and visualization in the NBA using GIS applications. 2014.
- Mooradian, Aregnaz. A postcolonial study of a non-governmental service delivery organization in Uganda. 2014.

- Nguyen, Linda. Community organization involvement strategies: A case study of three wetland conservation organizations in Southern California. 2014.
- Robles, Jose A.. The association between land cover and West Nile Virus avian infections within three ecologically distinct urbanized regions of Orange County, California. 2014. Schumacher, Zoe. A geo-spatial database of the monumental statuary (moaj) of Easter Island, Chile. 2013.
- Sonnichsen, Tyler. Emotion, place, and record collecting in Los Angeles: A post-modernist interpretation. 2013.
- Winslow, Scott E.. Putting Bodie in its place: A thematic gazetteer of a California ghost town. 2014. *Masters (Science):*
- Evelia Castromarroquin Geo Water Collector Web Application Summer 2014 (team project with Rogelio Flores)
- Rogelio Flores. Geo Water Collector Web Application Summer 2014 (team project with Evelia Castromarroquin)
- Michael Fish GIS Preservation of Mammoth Consolidated Mines Summer 2014
- Joanne Galvan East 7th Street History Project Summer 2014
- Samathan Jeet Visualizing Historic San Francisco Shanghaiing Data from 1881-1891
- Merve Karakaya Palos Verdes Trail Mapping Project Summer 2014
- Julie McNamara Using a Low-Cost Remotely Piloted Vehicle & Structure-From-Motion to Analyze Biological Applications – Summer 2014
- Phyllis Nakagawa Creating Multi-Unit Complex GIS Address Points and Building Polygons for the City of Garden Grove – Summer 2014
- Ian Nelson Bioassessment of Stream Health in the Santa Ana Watershed Using Geographic Weighted Regression – Summer 2014
- Ricard Rametta Methods for Creating an Open-source Web-based GIS: A Case Study Using Underground Pipeline Data – Summer 2014
- Daniel Short Creating a Sign Catalogue and Inventory in El Segundo, CA – Summer 2014
- Scott Taschner GIS Elements for Housing Long Beach Survey Summer 2014
- Scott Wang Determining Tree Canopy Height of Mangrove Forests in Chiapas, Mexico via the Analysis of Airborne LiDAR Data – Summer 2014 Kim Wiley UAV Platform Development for Digital Aerial Photography – Summer 2014

SAN DIEGO STATE UNIVERSITY

PhDs:

- Bart, Ryan "Regional Streamflow Response to Wildfire in California Watersheds" (Hope, 2014)
- Benza, Magdalena "Population Dynamics Throughout the Urban Context: A Case Study in Sub-Saharan Africa Utilizing Remotely Sensed Imagery and GIS" (Weeks, 2014)

Goerisch, Denise "Smart Cookies: The Gendered Spaces of Labor, Citizenship, and Nationalism in the Girl Scout Cookie Sale" (Swanson, 2013)

- Jankowska, Marta "Integrating Space and Place into Children's Perceptions of Environmental Health Hazards in Accra, Ghana" (Weeks, 2013)
- Lippitt, Caitlin "Remote Sensing Based Characterization of Herbaceous Vegetation in California Shrublands" (Stow, 2013)
- Salim, Zia "Building Community? Analyzing Gated Housing Compounds in Bahrain" (Bosco, 2014)
- Simons, Nicole "Improving Decision Making During Wildland Fire Events" (Jankowski, 2013)
- Wandersee, Sarah "Land-Cover and Land-Use Change in Human-Environment Systems: Understanding Complex Interactions among Policy and Management, Livelihoods, and Conservation" (An and López Carr, 2013)
- Wang, Ninghua "Statistics for Time-Series Spatial Data: Applying Survival Analysis to Study Land-Use Change" (An, 2013)

Zvoleff, Alex "Understanding the Dynamics of Changing Land-use and Land-cover, Population, and Climate in the Chitwan Valley, Nepal" (An and López Carr, 2013)

Masters (Arts):

- Garcia, Leticia "Feeling at Home with the Unfamiliar: Motivating People Through Visceral Engagements with Food" (Joassart Marcelli, 2014)
- Simms, Jessica "'Down the Bayou': A Political Ecology of Wetland in Louisiana" (Debbané, 2013)
- Tuller, Madeline "The Healthy Migrant Hypothesis and Internal Migration in Accra, Ghana" (Weeks, 2013)
- Van Ramshorst, Jared "'I Suffer a lot, we all Suffer so much': Contexts of Mobility, Migration, and Connectedness in Oaxaca, Mexico and Southern California" (Bosco, 2014)
- Wood, Lydia "Memory and Place as Intergenerational Sharing: Mental Maps, Community Walks, and the Childhood Geographies in San Diego's Little Italy" (Aitken, 2013)

Masters (Science):

- Lee, Raymond "Hydrologic, Climatological, and Biogeochemical Controls on Thermal Structure and Anoxia in Four Hypereutrophic Drinking Water Reservoirs" (Biggs, 2014)
- Meseck, Kristin "Habitat Distribution for Non-native Amazona viridigenalis Within San Diego County using Maxent Predictive Model" (An, 2013)
- Newtson, Jameson "The Impact of Fire on Flow Duration Curves in Southern California Shrubland Watersheds" (Hope, 2013)
- Rachels, Diane "Comparison of Chaparral Re-growth Patterns Between Santa Ana Wind-driven and non-Santa Ana Fire Areas" (Stow, 2014)
- Seidl, Dara "Striking the Balance: Privacy and Spatial Pattern Preservation in Masked GPS Data" (Jankowski, 2014)
- Vejraska, Milo "Image Metrics as Indicators of Socioeconomic and Demographic Characteristics in Slum Neighborhoods of Accra, Ghana" (Weeks, 2013)

SAN FRANSISCO STATE UNIVERSITY

Masters (Arts):

- Bey, Ryan "Large Woody Material Assessment for Salmon Restoration in Mill Creek Watershed, Sonoma County, California." (Holzman, Davis, 2014)
- Chassé, Michael "San Francisco's Rare Endemic Manzanitas: Prospects for Recovery Through Restoration." (Holzman, Davis, Parker, 2014)
- Ely, Charlotte "Investigating Parcel Changes to Understand Historic Land Use in a Southwestern Watershed." (Wilkinson, Henderson, 2014)
- Kristal "Exploring the Soundscape Geography of the San Ip. Francisco Bay Trail." (Hines, Chitewere, 2014)
- Jennings, Carlos "Estimating PM 2.5 concentrations using MODIS and meteorological measurements for the San Francisco Bay Area." (Oliphant, Blesius, 2014)
- McClure, Adam "Error Reduction Techniques on a LiDAR Salt Marsh DEM Using RTK GPS." (Liu, Hines, Ferner, 2014)
- Roa, Alexander "Boots and Birkenstocks: Landowner attitudes about conservation easements in San Mateo County." (Wilkinson, Blecha, 2014)
- Smith, Aprile "The Influence of Roadway Features on Pedestrian Collisions in San Francisco, California." (Henderson, Liu, 2014)

Masters (Science):

- Cowles, Stephanie May "Investigations of the Park Cool Island Effect of Golden Gate Park, San Francisco." (Oliphant, Davis, 2014)
- Jensen, Caitlin "Spatial and Temporal Variability in Shipping Traffic around San Francisco Bay." (Hines, Holzman, Redfern, 2014)

- Parker, Owen "Object-based Segmentation and Machine Learning Classification for Landslide Detection from Multi-temporal WorldView-2 Imagery." (Blesius, Davis, 2014)
- Sherba, Jason "Object-based Classification of Abandoned Logging Roads Under Heavy Canopy Using LiDAR." (Davis, Blesius, 2014)
- Vincent, Timothé "Habitat Use of Finless Porpoises in Hong Kong." (Hines, Guo, Hung, 2014)

UNIVERSITY OF CALIFORNIA, BERKLEY

PhDs:

- 2014: Cowart, Alicia. "Paleoenvironmental Change in Central California in the late Pleistocene and Holocene: Impacts of Climate Change and Human Land Use on Vegetation and Fire Regimes." (Geography Instructor, City College of San Francisco) BYRNE
- Friedman, Andrew Ronald. "Changes in the interhemispheric temperature difference: forcings, feedbacks, and impacts.' (Postdoc, Sorbonne Universities) CHIANG
- Dillon, Lindsey. "Race, Waste, and Space: Brownfield Redevelopment, Environmental Justice, and the Transformation of the San Francisco's Southeastern Waterfront." WALKER
- Knuth, Sarah Elizabeth. "Seeing Green: Speculative Urbanism in the Green Economy." WALKER
- Liu, Yuwei. "Abrupt monsoon weakening and links to extratropical North Atlantic cooling." (Postdoc, Stanford University) CHIANG
- Negrin, Diana. "Colores Mexicanos: Racial Alterity and the Right to the Mexican City." MANZ
- Singh, Raj Shekhar. "Hyper-resolution Global Land Surface Model at Regional-to-Local Scales with observed Groundwater data assimilation." MILLER

2013.

- Arbona, Javier. "After the Blast: Building and Unbuilding Memories of Port Chicago." WALKER Devine, Jennifer A. "Tourism and Territory in the Mayan World."
- HART AND WATTS
- Guimond, Katy. "Battle for The Bronx: Urban Revitalization In a Gentrifying City." WALKER
- Kao, Shih-Yang. "The City Recycled: The Afterlives of Demolished Buildings in Postwar Beijing." WALKER
- Lunine, Seth. "Iron Oil, and Emeryville: Resource Industrialization and Metropolitan Expansion in the San Francisco Bay Area, 1850-1900." WALKER
- Oh, Youjeong. "Spectacular Cities, Speculative Storytelling: Korean TV Dramas and the Selling of Place." HSING
- Reidy, Liam. "Lake Sediments as Evidence of Natural and Human Induced Environmental Change from California and Nevada." BYRNE
- Woodworth, Max David. "Frontier Boomtown Urbanism: city buildings in Ordos Municipality, Inner Mongolia Autonomous Region, 2001-2011." HSING

Masters (Arts):

Velazquez, Alberto (Sayre 2014)

UNIVERSITY OF CALIFORNIA, DAVIS

PhDs:

Amer, Tarecq "In the Law's image: San Francisco and the Creation of a U.S. American Imaginative Geography." (Michael Rios, 2014)

- Giles, Deborah "Southern Resident Killer Whales (Orcinus orca): The evolution of adaptive management practices for vessel-based killer whale watching in the Salish Sea, A novel non-invasive method to study sourthern resident killer whatles (Orcinus orca) and vessel compliance with regulations, and The effect of vessels on group cohesion and behavior of southern resident killer whales (Orcinus orca)." (Deborah Elliott-Fisk, 2014)
- Hoffman, Matthew "Extending Sustainable Agriculture: Social Learning, Decision-making, and Practice Adoption in California Viticulture." (Mark Lubell, 2013)
- Juarez Varela, Veneranda Xochitl "Dreams and Miseries of the Mexican Migration." (Luis Guarnizo, 2014)
- Mandel, Alexander "Expanding Geography with Free and Open Source Software: Technology Diffusion, Cartography, and Data Analysis." (James Quinn, 2014)
- Manfree, Amber "Landscape Change in Suisun Marsh." (Peter Moyle, 2014)
- McNally, Alison "Historical Geography of the Antioch Dunes, Antioch, California, with a Focus on Current Impacts to the Habitat and Population of the Federally Endangered Lange's Metalmark Butterfly (Apodemia mormo langei)." (Deborah Elliott-Fisk, 2014)
- Orozco Ramirez, Quetzalcoatl "Maize Diversity and Population Structure Related to Ethno-Linguistic Variation." (Stephen Brush, 2014)

Rosen-Teeple, Rosamaria "Popular Press Constructions of the Global Environment." (Deborah Elliott-Fisk, 2013)

Teeple, John "Geography on Foot and at Hand: Senses of Place in American Nature Writing." (Patsy Eubanks Owens, 2014)

Masters (Arts):

Hayden, Lillian "Best Management Practices for Reducing Residential Landscape Runoff and Non-Point Source Pollution: An Investigation of the Effects of Outreach Education and Aesthetic Preferences on Homeowner Behavior." (Mary Cadenasso, 2014)

Jones, Erica - Plan II (Stephen Wheeler, 2014)

Senanayake, Narmadha "From biochemical flows to the diseasepoverty nexus: tracing the "emergence" of Chronic Kidney Disease of Unknown Etiology in Sri Lanka's north central dryzone." (Diana Davis, 2014)

Wang, Yang - Plan II (James Quinn, 2013)

UNIVERSITY OF CALIFORNIA, LOS ANGELES

PhDs:

- Cooke, Abigail "Impacts of Trade on Wage Inequality Across the United States: Analysis Using Matched Employer-Employee Data" (David Rigby, 2014)
- Crow-Miller, Brittany "Water, Power and Development in Twenty-First Century China: The Case of the South-North Water Transfer Project" (C. Cindy Fan, 2014)
- Howell, Anthony "Inside China's "Growth Miracle:" A structural framework of firm concentration innovation and performance with policy distortions" (C. Cindy Fan, 2014)
- Lustig, Nicholas "Rereading Foucault on Technology, Variegation, and Contemporary Power" (Michael Curry, 2014)
- Mantegna, Agostino "The Territorial Logic of Political Clientelism: Southern Italy and California, 1870-1992" (John Agnew, David Rigby, 2014)
- Stephenson, Scott "Impacts of Climate Change on Human Access and Resource Development in the Arctic" (Laurence C. Smith, 2014)
- Wang, Jida "Lake Dynamics in the Yangtze Basin Downstream of Three Gorges Dam Driven by Natural Determinants and Human Activities" (Yongwei Sheng, 2014)

UNIVERSITY OF SOUTHERN CALIFORNIA

PhDs:

- Russell, Rachel "Environmental equity and urban sustainability: An analysis of untreated household wastewater in Tijuana, Mexico." (Jennifer Wolch, 2013)
- Holmes, Louisa "Behavioral, Physiological and Psychological Stress among Legal and Unauthorized Brazilian Immigrants: The Moderating Influence of Neighborhood Environments." (Manuel Pastor, 2013)
- Hoffman, April "Geography should never be why a child dies:" Spatial narratives and the Pediatric Medical Clinic of the Americas." (Ruth Gilmore, 2013)
- Sedano, Elisabeth "Consuming landscape, consuming machine: State, capital, and outdoor advertising in Los Angeles." (John Wilson, 2014)

Masters (Science):

- Alamo, Amanda "Explorations of American Churchscape Diversity." (Robert Vos, 2013)
- Baldwin, Shawn "Institutional Inscription in Saint Augustine, Florida." (Jordan Hastings, 2014)
- Bissell, Matthew "Using Volunteered Geographic Information to Model Blue Whale Foraging Habitat, Southern California Bight." (Travis Longcore, 2013)
- Bohon, Robert "Comparing Landsat7 ETM+ and NAIP Imagery for Precision Agriculture Application in Small Scale Farming: a Case Study in the South Eastern Part of Pittsylvania County, VA." (Flora Paganelli, 2014)
- Breeding, David "Identifying and Locating the Need for Financial Education." (Kirk Oda, 2014)
- Calahan, Meagan "Investigating Electoral College Reform: Geography's Impact on Elections, and How Maps Influence Our Perception of Election Outcomes." (Karen Kemp, 2014)
 Carl, Caroline "Calculating Solar Photovoltaic Potential on
- Carl, Caroline "Calculating Solar Photovoltaic Potential on Residential Rooftops in Kailua Kona, Hawaii." (Su Jin Lee, 2014)
- Crow, Heidi "Assessment of the FEMA HAZUS-MH 2.0 Crop Loss Tool Fremont County, Iowa 2011." (Jordan Hastings, 2014)
- Davidson, Robert "Evaluating Glacier Movement Fluctuations Using Remote Sensing: A Case Study of the Baird, Patterson, Leconte, and Shakes Glaciers in Central Southeastern Alaska." (Flora Paganelli, 2014)
- Davis, Austin "Testing LANDIS-II to Stochastically Model Spatially Abstract Vegetation Trends in the Contiguous United States." (Travis Longcore, 2013)
- Dickson, James "GIS-Based Quantitative Integration of Global Climate Model Simulations and Geodatabases of Gullies on Mars: Increasing Confidence in Geospatial Data/Model Comparisons." (Flora Paganelli, 2014)
 Franssen, Robert "Evaluating Spatial Changes in the Rate of
- Franssen, Robert "Evaluating Spatial Changes in the Rate of Insurgency-Violence in Central Africa: The Lord's Resistance Army 2008-2012." (Daniel Warshawsky, 2014)
- Gerard, Daniel "Visualizing Sporting Event Temporary Flight Restrictions." (Jennifer Swift, 2014)
- Gillis, Trinka "Use of Remotely Sensed Imagery to Map Sudden Oak Death (Phytophthora Ramorum) in the Santa Cruz Mountains." (John Wilson, 2014)
- Gray, Amanda "Spatial Delineation of Market Areas: A Proposed Approach." (John Wilson, 2013)
- Harrell, Joshua "An Evaluation of Soil Sampling Methods in Support of Precision Agriculture in Northeastern North Carolina." (John Wilson, 2014)
- Hartley, Brian "Evaluation of Weights of Evidence to Predict Gold Occurrences in Northern Minnesota's Archean Greenstone Belts." (Jordan Hastings, 2014)
- Hustler, Jarod "Analyzing Earthquake Casualty Risk at Census Block Level: a Case Study in the Lexington Central Business District, Kentucky." (Flora Paganelli, 2014)

- Ingold, Kurt "Remote Analysis of Avalanche Terrain Features: Identifying Routs, Avoiding Hazards." (Flora Paganelli, 2013)
- Laur, Amanda "An Analysis of Solar Energy Impacts on Building Efficiency and Management: A Case Study of Lewis Hall.' (John Wilson, 2014)
- Lo, Benito "Effect of Spatial Patterns on Sampling Design Performance in a Vegetation Map Accuracy Assessment.' (Travis Longcore, 2014)
- Maldonado, Raymond Dominic "Wrong Way Driving in San Antonio, Texas: A Transportation Route Study Using Network Analyst." (Jennifer Swift, 2014)
- Metivier, Kathryn "Modeling Open Space Acquisition: Geological Modeling in GIS for Petroleum Reservoir Characterization and Engineering: A 3D GIS-Assisted Geostatistics Approach." (Yao-Yi Chiang, 2014)
- Milholland, Nancy "Exploring San Francisco's Treasures: Mashing Up Public Art, Social Media, and Volunteered Geographic Information to Create a Dynamic Guide." (Edward Pultar, 2013)
- Mullis, David "Using Landsat and a Bayesian Hard Classifier to Study Forest Change in the Salmon Creek Watershed Area From 1972-2013." (Travis Longcore 2014)
- Prell, Adam "Pre-Incident Plan Mapping in Kern County's Wildland Urban Interface." (Jordon Hastings, 2013)
- Rubinvi, Steven "Spatiotemporal Visualization and Analysis as a Policy Support Tool: A Case Study of the Economic Geography of Tobacco Farming in the Philippines." (Karen Kemp, 2014)
- Schaefer, Bryan "Social Media to Track Urban Displacement: A Methodological Comparison Using U.S. Census Features and Geotagged Posts from Twitter for Locating Displacement in the City of Los Angeles, CA." (Darren Ruddell, 2014)
- Schroeder, Jeffrey "Surface Representations of Rainfall at Small Extents: A Study of Rainfall Mapping Based on Volunteered Geographic Information in Kona, Hawaii." (Karen Kemp, 2013)
- Tallis, Federico "Evaluating Transit and Driving Disaggregated Commutes through GTFS in ArcGIS." (Karen Kemp, 2014)
- Thompson, Kathy "Water Right Permit System (WRPS): A GIS-Based Tool for the Umpqua Drainage Basin." (Robert Vos, 2013)
- Vasquez, Diego "Geological Modeling in GIS for Petroleum Reservoir Characterization and Engineering: A 3D GIS-Assisted Geostatistics Approach." (Jennifer Swift, 2014)
- VoPham, Trang "Integrating Landsat and California Pesticide Exposure Estimation at Aggregated Analysis Scales: Accuracy Assessment of Rurality." (John Wilson, 2013)
- Wahl, Michael "Mapping Native Plants: A GIS-based Mobile Application for Everyone." (Jennifer Swift, 2013)
- Weidemann, Christopher "Geosocial Footprint: Social Media Location Privacy Web Map." (Jennifer Swift, 2014)
- Wenschhof, Luke "The Geography of Voter Power in the U.S. Electoral College from 1900-2012." (Robert Vos, 2014)

COLORADO

UNIVERSITY OF COLORADO, BOULDER

PhDs:

- Arcand, Naomi "Demography and Genetic Diversity of the Endemic Tree Fern
- Cibotium chamissoi on O'ahu Island, Hawai'i: A Multi-Method Analysis of Population Dynamics, with Implications For Conservation." (Susan Beatty, 2013)
- Hart, Sarah Jane "Climate variability and the susceptibility of Engelmann spruce to spruce beetle outbreak in northwestern Colorado." (Thomas Veblen, 2104)
- Malmberg, Julie "Social, Demographic and Environmental Influences on Perceptions and Memories of Weather, Climate and Climate Change." (Peter Blanken, 2014)

- Roberts, Tyler "Panel Data Analysis in the Demographic and Spatial Econometric Estimation of Carbon Dioxide Emissions Sources." (Kenneth E. Foote, 2014)
- Stewart, Michelle O. "The rise and governance of 'Himalayan Gold': Transformations in

the caterpillar fungus commons of Tibetan Yunnan, China." (Emily Yeh, 2014)

- Wendel, Jochen "An Evaluation of Organization Methods for Data Types Commonly Used in the Geographic Domain." (Barbara Buttenfield, 2014)
- Williams, Adam "Excess and Access: Informal recycling networks and participants

in Shanghai, China." (Tim Oakes, 2014)

- Masters (Arts):
- Adams, Hallie "Linking topography, hydrology, climate and ecology in semi-arid
- forests: Within catchment annual tree growth and water use efficiency." (Holly Barnard, 2014) Burns, Margaret Anne "Hillslope dissolved organic matter transport
- and transformation

in a semi-arid headwater catchment." (Holly Barnard, 2014)

- Clifford, Katherine "Knowing climate: Examining climate knowledges in the Gunnison Basin (William Travis, 2014)
- Cowley, Austin "Losing value: The problem of humanitarian order in a Georgian IDP

camp." (Elizabeth Dunn, 2014)

- Hafich, Katya "Of Microbes and Men: Determining sources of nitrate in a high
 - alpine catchment in the Front Range of Colorado and science outreach on alpine

hydrology." (Mark Williams, 2014)

- Lee, Ahn "Reconceptualizing environmental migration: Empirical findings from downscaled estimates of drought in rural Mexico." (Fernando Riosmena, 2014)
- Rumble, Ashley "Law, space and gendered vulnerability: a critique of VAWA's

jurisdictional fix in indian country." (Joe Bryan, 2014)

Stauffer, Andrew "Matching Attribute Resolution to Scale: The Effects of Filtering

on DEM Resolution." (Barbara Buttenfield, 2013)

Tynen, Sarah "Uneven Housing Development and the Spatial Negotiation of Class in Nanjing, China." (John O'Loughlin, 2014)

UNIVERSITY OF COLORADO, COLORADO SPRINGS

Masters (Arts):

- Best, Brian. "Taco Trucks versus Trendy Trucks: Inequality and the Geography of Mobile Food Vendors in Austin, TX" (Emily Skop, 2013)
- Benton, Shiloh. "Alan Savory's Holistic Planned Grazing--Past, Present, Future" (Tom Huber, 2014)
- Hendrickson, Josh. "An Exploration of Community Gardens and Denver Gentrification" (John Harner, 2014)
- Sturgis, David. "Evaluating User Experience of Situational Awareness Technology in Wildfire Response" (Paddington Hodza, 2014)

UNIVERSITY OF DENVER

PhDs:

- Gabel, Sharon "Future Work: Denver Metropolitan Area Jobs in a Globalizing Economy." (Andrew Goetz, 2014).
- Hoover, Joseph "Investigating the impact of Internet GIS on access to water quality information." (Paul Sutton, 2014).

Masters (Arts):

- Hafley, Taylor "Changing Geographic Patterns of High and Lowincome Groups in Eight United States Metropolitan Areas, 1990-2010." (Eric Boschmann, 2014).
- Honke, Jeffrey "Dust and ice ages; eolian sediments and environmental change at Ziegler Reservoir, Snowmass Village, Colorado." (J. Michael Daniels, 2014).

CONNECTICUT

CENTRAL CONNECTICUT STATE UNIVERSITY

Masters (Science):

Bernard, Spencer T. "A Pyrogeographic Comparison between California's Destabilizing Climate and Forest Fire Regime from 1960 to 2012" (Charles Button, 2014)

DeCarli, Jeremy "The Route 11 Project and the Changes that Lie Ahead (Brian Sommers, 2014)

- French, Joseph Edward "Defining and Measuring Food Deserts on Connecticut College and University Campuses using Geographic Information Systems (Xiaoping Shen, 2014)
- Johnston, Alexandra "The Re-orientation of Fairfield, Connecticut from a Suburb of Bridgeport to a Suburb of New York City" (Cynthia Pope, 2014)
- Meise-Munns, Oake E. "The Social (Un)Sustainability of Bear Bile: A Case Study of Traditional Chinese Medical Practice in Southeast Asia (Cynthia Pope, 2014)
- Powell, Teri "Migrational Resources for the Monarch Butterfly along the Eastern Flyway: An Illustrative Case Study of Fisher Meadows Recreation Area in Avon, Connecticut" (Charles Button, 2014)

UNIVERSITY OF CONNECTICUT

PhDs:

- Marcello Graziano, (Ph.D.) Adoption of diffused Renewal Energy Technologies: Patterns and Drivers of Residential Photovoltaic (PV) Systems in Connecticut, 2005-2013. Advisor: Carol Atkinson-Palombo.
- Kristen Keegan, (Ph.D.) Economic Diversity, Growth and Development in Early Nineteenth Century Connecticut. Advisor: Robert Cromley.
- George Bentley, (Ph.D.) Analyzing Land Covers in the context of Kuznets Curves. Advisor: Dean Hanink. 2013.
- Benjamin Franek (Ph.D). On Stream Assessment: Human Perception and Spatiotemporal Delineation of Geomorphic Units. Advisor: Nathaniel Trumbull. 2013.
- Jie Lin, (Ph.D.) Intelligent Isopleth Mapping. Advisor: Robert Cromley. 2013.
- Zhiqiang Liu, (Ph.D.) Geographical Concentration of Manufacturing Industries in China — Measurements and Determinants. Advisor: Dean Hanink. 2013.
- Cary Lynch, (Ph.D.) Observed and Projected Climate Variability in the Northeast United States from CMIP5. Advisor: Anji Seth. 2013.

Masters (Arts):

- Allison Bradshaw (M.A.) A Spatial Analysis of West Nile Virus in Texas, 2012. Advisor: Debarchana Ghosh. 2013.
- Dean Chauvin (M.A.) Advanced Techniques in Emergency Preparedness and Geoprocessing. Advisor: Jeffrey Osleeb. 2013.
- Logan Thomas, (M.A.) The Status of Economic and Social Rights in Appalachia. Advisor: William Berentsen. 2013.

DELAWARE

UNIVERSITY OF DELAWARE

PhDs:

- Bernstein, Elizabeth Rachel "Exploring integrated kinetic energy of polar mesoscale storms to estimate sea ice formation and salt fluxes in the Weddell Sea (Cathleen Geiger, 2015)
- Chan, Weihan "The Arctic energy budget, sea ice area, and the atmospheric circulation" (Daniel Leathers, 2014)

Masters (Arts):

- Jacobson, Hannah "That street's for them not us: Perceptions and experiences of public space in Georgetown, Delaware" (April Veness, 2014)
- Leiper, Chelsea "Co-creating an alternative: The moral economy of producer and consumer motivations for participation in farmers' markets" (Afton Clarke-Sather, 2013)

Masters (Science):

- Benjamin, Andrew "A snyoptic climatology of tornadoes in the northeast United States" (Daniel Leathers, 2013)
- Callahan, John "Estimation of precipitable water over the Amazon Basin using GOES imagery" (Tracy DeLiberty, 2014)
- Corradina, Victoria "Exploring open-source data fusion methods to create low-cost georeferenced aerial photography" (Cathleen Geiger, 2015)
- Finan, Christina "Analysis of the forcings of the Pacific Decadal Oscillation in CCSM4" (Brian Hanson, 2014)
- Kane, Renato "Using terrestrial laser scanning for differential measurement of interannual rock glacier movement in the Argentine dry Andres" (Michael O'Neal, 2014)
- Schroeter, Derek "Evaluating water resources in California using a synoptic typing methodology" (Daniel Leathers, 2014)
- Suriano, Zachary "Lake-induced snowfall associated with Lake Erie and Ontario in CMIP5 GCMS" (Daniel Leathers, 2014)

FLORIDA

FLORIDA INTERNATIONAL UNIVERSITY

PhDs:

- Buttram, Mance "Syndemic Risk Factors and Resilience Processes Related to HIV Transmission Risk among African American/Black Men in South Florida"
- Chaudhuri, Mayuraski "Gender in Motion: Negotiating Bengali Social Statuses across Time and Territories"
- Eisenhauer, Emily "Socio-Ecological Vulnerability to Climate Change in South Florida"
- Garvoille, Rebecca "Sociocultural Complexities of Ecosystem Restoration: Remaking Identity, Landscape, and Belonging in the Florida Everglades"
- Malakasis, Cynthia "Immigration and Nationalism in Greece"
- Mezararos, "Julia Racialized Sexualities within the Romance Tour Industry: the influence of Affects and Emotions upon Transnational Hierarchies of Desire"
- Mixon-Perez, Nicole "Sizing Up Miami: A Multilevel Analysis of the Discourses and Politics of Obesity"
- Nicholas, Tekla "Crossing Boundaries to education: Haitian Trasnnational Families and the Quest to Raise the Family Up"
- Tsang, Martin "Con la Mochal al Cuello: The Emergence and Negotiation of Afro-Chinese Religion in Cuba"

UNIVERSITY OF SOUTH FLORIDA

PhDs:

- Garren, Sandra: "Greenhouse gas emissions and climate policy in Florida's state and local governments (2000 to 2010)." (Philip van Beynen, 2014)
 - Meyer, Cynthia: "Evaluating Habitat Vulnerability and Sustainability of Urban Seagrass Resources to Sea Level Rise." (Ruiliang Pu, 2013)
- Paxton, Charles: "Atmospheric and Ocean Conditions and Social Aspects Associated with Rip Current Drownings in the United States." (Jennifer Collins, 2014)
- Wong, Johnny: "Troubled waters: Georgia, Florida and Alabama's conflict over the waters of the ACF basin." (Martin Bosman, 2014)

Masters (Arts):

Hippolyte, Vernice: "World Heritage Status, Governance and Perception in the Pintons Maagement Area, St. Lucia." (Fenda Akiwumi, 2013)

Masters (Science):

- O'Neal, Blaire: "Testing the Feasibility of Bioacoustic Localization n Urban Environments." (Joni Downs / Steven Reader, 2014)
- Ouellette, Kayla: "Agriculture, Environmental Restoration and Ecosystem Services: Assessing the Costs of Water Storage on Agricultural Lands in South Florida." (Kamal Alsharif, 2014)
- Persaud, Ann: "Still Waters Run Deep: Landscaping Practices, Community Perceptions, and Social Indicators for Stormwater Nonpoint Source Pollution Management in Manatee County, Florida." (Fenda Akiwumi, 2014)
- Rice, Lindsay: "An analysis of public perceptions and responses to Hurricane Sally." (Jennifer Collins, 2014)
- Roberts, Kelsey: "Weather patterns associated with green turtle hypothermic stunning events in St. Joseph Bay and Mosquito Lagoon, Florida." (Jennifer Collins, 2013)
- Sakmar, Joshua: "Molecular technologies in the science and policy of Florida largemouth bass (Micropterus floridanus) management in Florida." (Steven Reader / Thomas Crisman, 2013)
- Stanley, Matthew: "Hail formation in Florida." (Jennifer Collins, 2014)

GEORGIA

GEORGIA STATE UNIVERSITY

PhDs:

- Davarpanah, Armita "Spatio-temporal analyses of Cenozoic normal faulting, graben basin sedimentation, and volcanism around the Snake River Plain, SE Idaho and SW Montana." (Hassan Babaie, 2014)
- Ghelerter, Jill "Geochemistry and bioremediation of oiled Louisiana salt marshes amended with clay minerals." (Daniel Deocampo, 2014)
- Meyer, Brian "Shoreline Dynamics and Environmental Change Under the Modern Marine Transgression: St. Catherines Island, Georgia." (Daniel Deocampo, 2013)

Masters (Arts):

- Chiang, Andrew "Evaluating The Performance Of A Filtered Area Weighting Method In Population Estimation For Public Health Studies." (Dajun Dai, 2013)Ilic, Karla A. "Evaluating Disparities in Quality of Life in the City of
- Ilic, Karla A. "Evaluating Disparities in Quality of Life in the City of Atlanta Using an Urban Health Index." (Dajun Dai, 2013)
- Nye, Cheryl L. "Transformation and Care in a City of Refuge." (Katherine Hankins, 2013)

- Puckett, Mechelle "Mobility in the Neoliberal City: Atlanta's Left Behind Neighborhoods." (Katherine Hankins, 2014)
- Zhang, Yingzhi "Understanding The Influence Of Participants' Preferences On The Affiliation Network Of Churches Using Agent-based Modeling." (Dajun Dai, 2014)

Masters (Science):

- Barrett, Stephen R. "Investigating The Local Food System: A Mixed Methods Study Of Sustainability in Southwest Atlanta." (Timothy Hawthorne, 2013)
- Breytenbach, Elvira "Following the Rains: Evidence and Perceptions Relating to Rainfall Variability in Western Uganda." (Jeremy Diem, 2013)
- Cosentino, Giovanni R. "Comparing Vegetation Cover in the Santee Experimental Forest, South Carolina (USA), Before and After Hurricane Hugo: 1989-2011." (Lawrence Kiage, 2013)
- McCartha, Daniel "A Hurricane Record of Jekyll Island, Georgia." (Lawrence Kiage, 2013)
- Ormsby, Christopher S. "A Study on the Characteristics and Genesis of Smectite Deposits in the Georgia Kaolin Belts." (W. Crawford Elliott, 2013)
- Popoola, Rhoda O. "Sedimentology and Geochemistry of Weisner Formation, Bartow County, Georgia." (Daniel M. Deocampo, 2013)
- Simpson, Simmone "The Paleoenvironment of the Lower Mississippi River Delta During the Late Holocene." (Lawrence Kiage, 2014)
- Skelton, Craig "The Implementation and Education of Geographic Information Systems in a Local Government for Municipal Planning: A Case Study of Dangriga, Belize." (Timothy Hawthorne, 2014)

UNIVERSITY OF GEORGIA

PhDs:

- Bernardes, Sergio "Climatic variability and changes in greenness and primary productivity in the Southeastern United States." (Marguerite Madden, 2013)
- Das, Ujjaini "Confronted with managing e-waste in Delhi: embedding the developmental state in environmental justice research," (Hilda Kurtz, 2014)
- Gensini, Vittorio "Hazardous convective weather in the United States: a dynamical downscaling approach." (Thomas Mote, 2014)
- Gustafon, James "Urban Political Ecology and Exurban Environmental Knowledge in Post-2008 Southern Appalachia." (Nik Heynen, 2014)
- Passidomo, Catarina "Right to (feed) the city: race, food sovereignty, and food justice activism in post-Hurricane Katrina New Orleans." (Hilda Kurtz, 2013)

Masters (Arts):

- Baugh, Ryan "Where multi-racial individuals live." (Steven Holloway, 2014)
- Canfield, Molly "Backyards as borderlands: humans, animals, and urban food production." (Amy Trauger, 2014)

Masters (Science):

- Bell, Jennifer "BMI and POPs: association between persistent organic pollutants and increasing obesity prevalence in the United States." (Xiaobai Yao, 2014)
- Debbage, Neil "Quantifying urban form via spatial metrics and its climatic implications." (J. Marshall Shepherd, 2014)
- Haskett, Danielle "A quantitative midge-based reconstruction of thermal conditions in central Colorado during marine isotope stage 5." (David Porinchu, 2013)
- Mattingly, Kyle "Atmospheric circulation and moisture transport associated with large-scale organized convection over subtropical South America." (Thomas Mote, 2014)

- Remillard, Caren "Of monkeys and men: geospatial habitat assessment for capuchin conservation." (Marguerite Madden, 2014)
- Wang, Mingshu "Geospatial modeling of the biophysical environments and mangrove biomass of the Sunda Banda Seascape, Indonesia." (Marguerite Madden, 2014)
- Wang, Yaoli "Detecting associated communities in social network and urban activity spaces." (Xiaobai Yao, 2014)
- Younger, Seth "Sediment source ascription of forest roads in the upper Little Tennessee River basin." (David Leigh, 2013)
- Zhang, Weihao "Benchmarking the efficiency of public health agency in the continental U.S. and evaluating its impact on health outcome along with primary care physician supply." (Lan Mu, 2014)

HAWAII

UNIVERSITY OF HAWAII, MANOA

PhDs:

- Liu, Wen (2014) "Regional Above Ground Biomass Storage Changes Due to Rubber Expansion in Mountainous Mainland Southeast Asia" (Qi Chen)
- Miyake, Yoshitaka (2014) "The Failure of Agricultural Policy Reform in Neoliberal Japan: The 2007 Multi-Product Management Stabilization Plan" (Mary McDonald)

Masters (Arts):

- Jaspers, Krista (2014) "Spinner Dolphin Tourism & the Success of Voluntary Guidelines in Hawaii" (Alison Rieser)
- Kaiser, Lauren (2014) "Assessing the Impact of Kona Lows on Rainfall in Hawaii" (Tom Giambelluca)
- Kajihiro, Kyle (2014) "Becoming "Pearl Harbor": A "Lost Geography of American Empire" (Reece Jones)
- Lindquist, Mahany (2014) "Estimating Canopy Bulk Density Using Remote Sensing Data" (Qi Chen)
- Reinhalter, Java (2014) "Intentional Communities: Place-Based Articulations of Social Critique" (Reece Jones)

ILLINOIS

NORTHERN ILLINOIS UNIVERSITY

Masters (Science):

- "The U.S. Census Bureau's 2010 Crutchfield, Christopher J. Urbanized Area Definition: A Kane County, Illinois Case Study." (Richard Greene)
- Dawson, Adam M. "The Influence of Snow Cover on Monthly Temperatures in Illinois." (David Changnon)
- Haberlie, Alex M. "Warm-season Convective Initiation Climatology for the Atlanta, Georgia Region" (Walker Ashley)
- Maloney, Benjamin J. "The Role of Amenities, Demographics and Soci-economic Variables in the Decision Making of High Amenity Zone Residents: A Chicago, IL and Houston, TX Comparison" (Richard Greene)
- Osterloh, Kristopher R. Land-Use Impacts on Dynamic Soil Properties at Nachusa Grasslands." (Michael Konen)
- Rohrbach, Kristina L. "Changes in Southeast Florida Vulnerability since Hurricane Andrew." (Walker Ashley)

Other:Non-Thesis Research Papers for M.S. Degree:

- Carrier, Christine E. "An Introduction to Biogeography and Climate Change." (Lesley Rigg/David Goldblum)
- Carrier, Christine E. "Importance of the Understory and the Need for Future Research." (David Goldblum/Lesley Rigg)

- Vallimont, Russell A. "Agriculture and Climate Change." (James Wilson)
- Vallimont, Russell A. "Analysis of the World3 Model." (James Wilson)

SOUTHERN ILLINOIS, CARBONDALE

PhDs:

- Bouska, Kristen. "Impacts of Climate and Land Use Change on Fish Species Distributions in the Central United States" (Lant (coadvisor), 2014)
- Chitiyo, Plaxedes. "Policy and Institutional Changes in the Zimbabwe Agricultural Sector and the Emergence of Alternative Agriculture" (Duram, 2014)
- Rehmer, Donald. "Mathematical Programming (MP) Model to Determine Optimal Transportation Infrastructure for Geologic CO2 Storage in the Illinois Basin" (Lant, 2014)
- Stoebner, Timothy. "Geographic Effects of Climate Change on Major Rural Land Covers of the Central United States" (Lant, 2014)
- Varble, Sarah. "The Role of Adaptation and Information in Agricultural Sustainability and Resilience" (Secchi, 2014)

- Masters (Science): Bonney, Makayla. "An Empirical Analysis of the Role of Geography in Sustainability Education" (Duram, 2014)
- Feng, Guanling. "Monitoring Drought Intensity in Illinois with a Combined Index" (Wang, 2014)
- Klein, Sydney. "The Role of University Food Gardens in Higher Education" (Duram, 2014)
- Lampo, Miles. "A Validation Study of the North Carolina Rapid Field-Based Rating System for Discriminating Flow Permanence Classes of Headwater Streams in Agriculture Basins in Southern Illinois" (Remo, 2014)
- Lopeman, Brooke. "Campus Recycling Influences and Decisions" (Therrell, 2014)
- Mahgoub, Mohamed. "New Multiple-Scale Technique for the Assessment of Relative Flood Vulnerability" (Remo, 2014)
- Shrestha, Samir. "Sensitivity of Hazus-MH Flood Loss Estimates to Selection of Building Parameters: Two Illinois Case Studies" (Remo, 2014)
- Turner, Christine. "Planning an Agritourism Event in Southern Illinois: A Case Study of the Neighborhood Co-op Grocery Fall Farm Crawl" (Duram, 2014)
- Wang, Chen. "Simulation and Evaluation of Stream Flow and Pesticide Prediction in Orestima Creek Watershed Using the AnnAGNPS Model" (Oyana, 2014)

SOUTHERN ILLINOIS UNIVERSITY, EDWARDSVILLE

Masters (Science):

- Lograsso, Kamiliah, "Modeling Deer Vehicle Collisions in Edwardsville, IL." Stacey Brown, June 2013.
- Rohling, Kevin, "A Spatial Analysis of Small Road-killed Vertebrates in Madison County, IL: Implications for Conservation on a Suburban Fringe." Michael Grossman, June 2013.
- Schreiber, Andrew, "Rethinking the Poverty Line: What Alternate Measures Indicate about Urban Poverty and its Spatial Distribution." Jim Hanlon, June 2013.
- Sheehan, Emily, "A Geographical Study of the SNAP Population in the United States: A County-Level Stastistical Analysis." Jim Hanlon, July 2013.

Other - Masters (Science): Comprehensive Exam:

Ivey, Mary - Fall 2013

Knebel, Tyler - Fall 2013

Malla, Prita - Fall 2013

Ozanich-Vella, Raquel - Fall 2013

UNIVERSITY OF ILLINOIS, URBANA CHAMPAGNE

PhDs:

- Cheng, Benjamin C., "Inclusive Ethnoburbia? A Portrait of Inclusion in Chicago Area Ethnoburbs." (David Wilson, 2013)
- Csiki, Shane JC, "The Impact of Run-Of-River Dams on Channel Morphology and Sedimentation." (Bruce Rhoads, 2014)
- DeMuynck, Erin, "Farmer's Markets as Contested Sites: From Neoliberal Redevelopment Governance to Lifestyle Activism." (David Wilson, 2014)
- Engel, Frank Lee, "The Fluvial Dynamics of Compound Meander Bends." (Bruce Rhoads, 2014)
- Konsoer, Kory Matthew, "Influence of Riparian Vegetation on Near-Bank Flow Structure and Rates of Erosion on a Large Meandering River." (Bruce Rhoads, 2014)
- Lechtenberg, Devon Michael, "Of Bureaucracies and Motorways: Administrative Reform and Infrastructure Policy for National Roads in Poland." (Julie Cidell 2014)
- Rana, Pushpendra, "Elite Capture and Forest Governance in India." (Ashwini Chhatre, 2014)

Ye, Sheng, "Temporal and Spatial Scaling of Coupled Hydrological and Biogeochemical Processes in River Basins." (Murugesu Sivapalan, 2014)

Masters (Arts):

Burga, Cahuana, Carol, "Participation and Representation: REDD+ in the Native Communities of Belgica and Infierno in the Pervian Amazon." (Jesse Ribot, 2014)

Masters (Science):

- Aadland, Matthew Alan, "The Circuits of Capital Model in a Rural Context: The Case of Brookings County, South Dakota." (David Wilson, 2014)
- Lewis, Quinn, "Rates and Patterns of Temperature Mixing at a Small Stream Confluence Under Variable Incoming Flow Conditions." (Bruce Rhoads, 2014)

WESTERN ILLINOIS UNIVERSITY

Masters (Arts):

- Koh, Donghee, "Residential Patterns of Korean Americans in Chicago: An Exploration into the Causes of Suburbanization." (Dr. Sunita George, 2014)
- Ostrowski, Richard, "Impact of Urbanization on Local Precipitation Patterns Around the City of Orlando, Florida." (Dr. Marcus Buker, 2013)

INDIANA

BALL STATE UNIVERSITY

Masters (Science):

- Dotson, Katelyn "Impact of the Atlantic Meridional Mode 'AMM' on North Atlantic Hurricane Activity." (Petra Zimmermann, 2014)
- Stefl, David "Impacts of Teleconnection Patterns of Snowfall Distribution Over the Eastern United States from 1951-2012." (Jill Coleman, 2014)

INDIANA UNIVERSITY

PhDs:

Clouser, Rebecca, "Interrelations Between Fear and Development in Guatemala: A Multi-Perspective Analysis" (Knudsen/Biles, 2013) Machunda, Zachary, "International Effects and the Information-Theoretic Shift-Share Analysis of Change in Geographical Concentration of Indiana Manufacturing Employment, 1950-2000" (Knudsen, 2014)

Masters (Arts):

- Babb, Angela, "Community Food Security: The Role of Alternative Food Networks in Food Deserts" (Knudsen, 2013)
- Levin, Will, "Ohio's 3C and the Futures of U.S. Passenger Rail" (Lave, 2013)

IOWA

UNIVERSITY OF IOWA

PhDs:

- Ding, Deng "An Integrated Modeling Framework of Socio-economic, Biophysical, and Hydrological Processes in Midwest Landscapes: Remote Sensing Data, Agro-hydrological Model, and Agent-based Model" (Linderman, 2014)
- Grane, Douglas ""Indicatorism": The Context, Politics, and Effects of Monitoring and Evaluation in the Kenya Education Sector Support Program" (Rushton, 2013)
- Haynes, David "Improving Enrollment Projections through the Application of Geographic Principles: Iowa 1999-2011" (Rushton, 2014)
- Hubbard, Shane "Modeling Geospatial Events during Flood Disasters for Response Decision-making" (Stewart, 2013)
- Mount, Jerry "The Role of Context in Spatial Decision-making in GIScience" (Bennett, 2013)
- Wang, Wei "Automated Spatiotemporal and Semantic Information Extraction for Hazards" (Stewart, 2014)

Masters (Arts):

Deng, Ding (Linderman, 2014)

- Johnson, Ryan "Ecological Indicators, Historical Land Use, and Invasive Species Detection in the Lower Iowa River Floodplain" (Linderman, 2014)
- Shang, Yiqing "Spatial and Temporal Patterns of Genetic Variation of H1N1 Influenza Viruses in China in the 2009 Pandemic" (Carrel, 2014)
- Williams, Thomas "Estimating Organic Carbon on Avalanche Paths in Glacier National Park, Montana" (Malanson, 2014)

UNIVERSITY OF NORTHERN ILLINOIS

- Matthew D. Cooney, "Understanding the Long-Term Spatiotemporal Dynamics of the Taimyr Reindeer Herd During the Summer Concentration Period" (Andrey Petrov, 2014)
- Andrei Kushkin, "Understanding the Impact of Vegetation on Surface Roughness Length for Enhancing Wind Resource Characterization in Iowa" (Andrey Petrov, 2014)
- Derek Richards, "Climate Analysis Using Tree-Rings from the Wind River Range, Wyoming" (Dennis Dahms, 2014)
- Tesfay Russell, "Developing An Integrated Spatially Explicit Scale Dependent Modeling Framework for Wind Farm Suitability Assessment in Iowa" (Andrey Petrov, 2014)
- Ekaterina Korzh, "Spaces of Disadvantage, Places of Hope: Women Empowerment, Economic Emancipation and NGOs In Bogota Slums" (Andrey Petrov, 2014)
- Adejob Ogbe, "Spatial analysis of foreclosure and neighborhood characteristics in Miami metropolitan area, Florida" (Bingqing Liang, 2015)

KANSAS STATE UNIVERSITY

PhDs:

- Grudzinski, Bartosz "Influence of Watershed Grazing Management on Stream Geomorphology in Grassland Headwater Streams." (Melinda Daniels and Charles Martin, 2014)
- Munro, Benjamin "The Lost Innocence of Ethanol: Power, Knowledge, Discourse, and US Biofuel Policy." (Lisa M.B. Harrington, 2014)
- Reddy, Sumanth "Medical Tourism in India: An Exploratory Study." (Bimal Paul, 2013)
- Ruffing, Claire "Influence of Legacy Disturbance on Functional Connections between Geomorphology and Organic Matter Dynamics in Mountain Streams." (Melinda Daniels and Kendra McLauchlan, 2014)

Masters (Arts):

- Anibas, Kyle "Land Cover, Land Use, and Habitat Change in Volyn, Ukraine: 1986-2011." (Douglas Goodin, 2014)
- Burchfield, David "Mapping Eastern Red Cedar (Juniperus virginiana L.) and Quantifying its Biomass in Riley County, Kansas." (Kevin Price, 2014)
- Howard, Ian "A Synoptic Climatology of Nocturnal Rainfall Events during May, June, and July for Northeastern Kansas." (John Harrington, Jr., 2013)
- Kelly, Kyleen "Paleoecological Reconstruction of a Modern Whitebark Pine (Pinus albicaulis) Population in Grand Teton National Park, Wyoming." (Kendra McLauchlan, 2014)
- Ling, Bohua "Estimates of Canopy Nitrogen Content in Heterogeneous Grasslands of Konza Prairie by Hyperspectral Remote Sensing." (Douglas Goodin, 2013)
- McAlister, Jordan "The Cultural Significance of the Rural Great Plains County Seat: A Case Study of Two Western Kansas Counties." (Jeffrey Smith, 2014)
- Morris, Christopher "Analysis of Modern Pollen Data from the Prairies of central North America." (Kendra McLauchlan, 2013)
- Mueller, Joshua "The Relative Controls on Forest Fires and Fuel Source Fluctuations in the Holocene Deciduous Forests of southern Wisconsin, USA." (Kendra McLauchlan, 2013)
- Pockrandt, Bryanna "A Multi-Year Comparison of Vegetation Phenology between Military Training Lands and Native Tallgrass Prairie using TIMESAT and Moderate-Resolution Satellite Imagery." (Shawn Hutchinson, 2014)

Roberts, Brianna "Geomorphic Function of Large Woody Debris within a Headwater Tallgrass Prairie Stream Network." (Melinda Daniels, 2014)

Spencer, David "A Historical Record of Land Cover Change of the Lesser Prairie Chicken Range in Kansas." (Melinda Daniels and Douglas Goodin, 2014)

Wallace, Laura "Condit Dam Removal: A Decision-Making Comparison with Removal of Elwha River Dams." (Lisa M.B. Harrington, 2014)

LOUISIANA

LOUISIANA STATE UNIVERSITY

PhDs:

- Chaney, James Powell "Uncovering Nodes in the Transnational Social Networks of Hispanic Workers." (Sluyter, 2013)
- Chen, Yi-Chia "Shifting Place Identities in a Post-Conflict Society: Irony and Multiculturality in Quemoy, Taiwan." (Colten, 2013)

- Edwards, Brandon Lee "Investigations of the Initiation of Motion in Aeolian Transport." (Namikas, 2013)
- Hay, Jennifer Ann "Restoring Cultural Captial through Preservation in the Holy Cross Historic District." (Colten, 2014)
- McEwen, John Winsor "Sense of Place, Place Attachment, and Rootedness in Four West Baton Rouge Parish, Louisiana Bars." (Mathewson, 2014)
- Modlin, Eddie Arnold, Jr. "How Tourists Participate in Remembering Slavery at the Southern Plantation." (Regis, 2014)
- Needham, Harold Francis III "A Data-Driven Storm Surge Analysis for the U.S. Gulf Coast." (Keim, 2014)
- Powell, Emily Joy "Climate Extremes in the Southeast United States: Observed Variability, Spatial Classification, and Related Planning." (Keim, 2014)
- Schmutz, Phillip Perry "Investigation of Factors Controlling the Dynamics of Beach Surface Moisture Content." (Namikas, 2014)

Masters (Arts):

- Baldridge, Mallory "An Analysis of Osteoarthritis of the Upper Limbs in the Tchefuncte Site (16ST1)." (Listi, 2014)
- Bangs, Paul Max "Decomposition at Three Aquatic and Terrestrial Sites in Southern Louisiana." (Manhein, 2014)
- Beebe, Karen Leigh "The Feasibility of Creating a 3D Digital Skeletal Collection for Research Purposes and Museum Use." (McKillop, 2014)
- Buchanan, Shelby Catherine "Bone Modification in Male to Female Transgender Surgeries: Considerations for the Forensic Anthropologist." (Manhein, 2014)
- Cantu, Maximilian Hiram "Animal Scavenging on Human Skeletal Remains in the Southwest United States: A Preliminary Model." (Manhein, 2014)
- Digilormo, Jamie Renee "Three From The Bottom: Examining Racial and Ethnic Identity Among Italian Americans in Bossier City." (Managan, 2013)
- Farris, Rachel "Decomposition and Entomological Associations of Swine in Louisiana Micro-environments." (Manhein, 2014)
- Gardner, Jennifer "Electrical Resistivity Employed at the Livonia Mound Site (16PC1), Pointe Coupee Parish, Louisiana." (Saunders, 2014)
- Hochstein, Lucy Ann Edwards "The Frontal Bone as a Proxy for Sex Estimation in Humans: A Geometric Morphometric Analysis." (Listi, 2014)
- Hubbard, Audriana Nichole "The Blessing of the Fleet: Heritage and Identity in Three Gulf Coast Communities." (Regis, 2013)
- Jackson, Miley Page "Natural Isoscapes of Louisiana: Stable Isotope Analysis of Oxygen, Carbon, and Strontium." (Manhein, 2014)
- Kerry, Emley Elise "Backpacker Selves in a Hostel: Discourse, Identity, and Existential Authenticity." (Managan, 2013)
- Klein, Nicole Suzanne "A Comparative Study of Human Decomposition Research Facilities in the United States: The Role of "Body Farms" in Forensic Applications." (Listi, 2014)
- McNabb, Caitlyn Yoshiko "Emergent Irrigation Agriculture and Settlement Patterns in the Lower Nepeqa Valley, North-Central Coast of Peru." (Chicoine, 2013)
- Moats, Heather "Can You Hear the People Sing: Community Theater, Play, and the Middle Class." (Managan, 2014)
- Thibodeaux, Brian Matthew "Inferences of Subsistence Activities Using Musculoskeletal Stress Markers of Humerii from Two Louisiana Archaeological Populations." (Listi, 2014)

Masters (Science):

- Billiot, Amanda Michelle "A Hybrid Procedure for Classifying Synoptic Weather Types for Louisiana with an Application to Precipitation Variability." (Keim, 2013)
- Fan, Shuzhan "The Spatial-Temporal Prediction of Various Crime Types in Houston, TX based on Hot-Spot Techniques." (Leitner, 2014)

- Ikram, Samina Zahid "Disparities in Accessibility to Pharmacies: A Case Study in East Baton Rouge Parish, Louisiana." (Fahui Wang, 2014)
- Jones, Rebekah Danielle "Quantifying the Impact of Hurricanes, Midlatitude Cyclones and Other Weather and Climate Extreme Events on the Mississippi-Alabama Barrier Islands Using Remotely Sensed Data." (Rohli, 2014)
- Maass, Audrey "Adapting Resilience to a New Hazard: Oil and Oysters in Coastal Louisiana." (Colten, 2014)
- Tollefson, William Clifford "Effect of Atmospheric Boundary Layer Conditions on Agricultural Spray Drift." (Rohli, 2013)

MARYLAND

UNIVERSITY OF MARYLAND, COLLEGE PARK

PhDs:

- Rishmawi, Khaldoun, "Spatial Patterns and Potential Mechanisms of Land Degradation in the Sahel," (Prince, Steve; Fall 2013).
- Berndtson, Rachel E., "Let My People Grow: The Diffusion of the Jewish Farming Movement through the Jewish Community of the Greater Baltimore Metropolitan Area" (Geores, Martha; Spring 2014).
- Hoy, Elizabeth E., "Impacts of a Changing Fire Frequency on Soil Carbon Stocks in Interior Alaskan Boreal Forests" (Kasischke, Eric; Spring 2014).
- Margono, Belinda A., "Advancing Indonesian Forest Resource Monitoring Using Multi-Source Remotely Sensed Imagery" (Hansen, Matt; Spring 2014).
- Whitcraft, Alyssa K., "Developing Earth Observations Requirements for Global Agricultural Monitoring: Toward a Multi-Mission Data Acquisition Strategy" (Justice, Christopher; Spring 2014).
- Whitehurst, Amanda S., "Assessing the Relationships Between Vertical Structure, Biodiversity and Succession in a Forest Ecosystem using Lidar Remote Sensing" (Dubayah, Ralph; Spring 2014).
- O'Neal, Kelley, "Carbon Sequestration and Agents of Woody Encroachment in Southeastern Arizona Semi-arid Grasslands," (Justice, Chris; Summer 2014).
- Sahajpal, Ritvik, "Assessing Cellulosic Biofuel Feedstock Production Across a Gradient of Agricultural Management Systems in the U.S. Midwest," (Hurtt, George; Summer 2014).

Other: Master of Professional Studies in Geospatial Information Sciences (MPS/GIS):

All of the students listed below graduated during the SPRING of 2014: Boone, Julia; Chen, Yunquin; Defershat, Mengistu; Emerick, Ruth; Ernst, Carrie; Fuentes, Sandra; Govani, Lisa Marie; Hsia, Christopher; Kim, Vincent; Komguem, Diane; Lasko, Kristofer David; Lola-Amani, Patrick Kuburhanwa; Melocik, Katherine; Miyazawa, Satoshi; Monette, Lukus James; Munson, Marques; Myers, Monica; Nerrie, Frederick; Newell, Andrew; Nordling, Jon; Price, Andrew; Purcell, Serenity; Silski, Matthew Lawrence; Smith, Christopher; Stanley, Thomas; Trauth, Laura; Tulloch, Donovan; Roggen, Elena; Velasco, Juan Luis; Vormwald, Lisa; Xiao, Yixiong; Yonezaki, Seiya; Yuan, Ying; Zhou, Siyan.

MASSACHUSETS

CLARK UNIVERSITY

PhDs:

- Johnston, Connie Lewis. "The Social, Spatial, and Scientific Aspects of Farm Animal Welfare in the US and European Union." Advisor: Jody Emel. 2013.
- Kutz, William E. "Financing Demand-Side Urbanism: Lessons from the 'Spatial-Fix' in Tangier, Morocco." Advisor: Mark Davidson. 2013.
- Rossi, Esteban. "Characterizing the Effects of Hurricane Felix on Forest Dynamics in Nicaragua and its Implications for Forest Management." Advisor: Dominik Kulakowski. 2014
- Stoddard, Elisabeth Anne. "Livestock Vulnerability to Disasters in North Carolina's Hog Industry: Neoliberal Governance and Differential Risk in and Industry Too Big to Fail." 2014
- Wu, Qingling. :From Phenomena to Objects: Sementation of Fuzzy Objects and its Application to Oceanic Eddies." 2013

Masters (Arts): GIS 2014: Danko III, Joseph Geller, Christina M. Kappel, Alexander Raffel, Noam Manley, Matthew Sturdivant, Emily

GEOGRAPHY 2014: Kay, Kelly Mayer David P. Meng, Kathryn-Louise

Masters (Science):

- Anne Clark Baker: Fisheries in Motion (advisers: Yelena Ogneva-Himmelberger and Rob Goble)
- Chantal Begley: Data Management and Verifications: Summer 2013 GIS Internship with the Massachusetts Broadband Institute (adviser: Yelena Ogneva-Himmelberger)
- Michael Cecil: GIS Mapping for the Greater Worcester Community Health Improvement Plan (CHIP): Summer Internship with the Worcester Division of Public Health (Joint w/ Yuqi Chen) (adviser: Yelena Ogneva-Himmelberger)
- Yuqi Chen: GIS Mapping for the Greater Worcester Community Health Improvement Plan (CHIP): Summer Internship with the Worcester Division of Public Health (Joint w/ Michael Cecil) (adviser: Yelena Ogneva-Himmelberger)
- Tyler Dahlberg: The Summer of Maps: Spatial Analysis for the Bicycle Coalition of Greater Philadelphia and the Greater Philadelphia Coalition against Hunger (adviser: Yelena Ogneva-Himmelberger)
- James Dolansky: Utilizing GIS for Smart Grid Propagation Studies: Summer 2013 Internship with Mueller Systems (adviser: Yelena Ogneva-Himmelberger) Â
- Jian Fan: Programming and Testing Modules in IDRISI Software: Summer Internship with Clark Labs (adviser: Yelena Ogneva-Himmelberger)
- Christopher Ferraro: A Computer Vision Based Approach for Reconstructing Complex Glacier Topography from Historic Aerial Imagery for Quantification of Longer-Term Changes in Glacier Geometry (adviser: Alex Gardner)
- Liyao Huang: Environmental Injustice in the Spatial Distribution of Hydro-Fracking Wells in Four States of the U.S. (adviser: Yelena Ogneva-Himmelberger)
- Yongyao Jiang: Automated Mobility Mode Detection based on GPS Tracking Data (adviser: Jie Tian)

- Supriya V. Khadke: Mapping Coastal Protected Areas at Risk to Sea Level Rise: A Resources for the Future Project (adviser: Yelena Ogneva-Himmelberger)
- Xiyu Li: Great Smoky Mountains Ecological Forecasting 2013 Summer Internship with NASA Develop National Program at University of Georgia (adviser: Yelena Ogneva-Himmelberger)
- Zihan Lin: IDRISI Software Development: Summer Internship with Clark Labs (adviser: Yelena Ogneva-Himmelberger)
- Timothy Liponis: Berkshire County GIS Land Conservation: Summer Internship with the Berkshire Natural Resources Council (adviser: Yelena Ogneva-Himmelberger)
- Edward Potter: Vector-Based GIS in the Telecommunications Industry: Summer 2013 Internship with the Massachusetts Broadband Institute (adviser: Yelena Ogneva-Himmelberger)
- Hayley Solak: Multi-Spectral Monitoring of Algal Blooms in Lake Champlain for Enhanced Natural Resource Management: Summer 2013 Internship with NASA Develop National Program (adviser: Yelena Ogneva-Himmelberger)
- Mukesh Subedee: Time Series Analysis of Cedar Bayou: Summer Internship with the Harte Research Institute for Gulf of Mexico (HRI) (adviser: Yelena Ogneva-Himmelberger)
- Yue Sun: Mapping Ambient Temperature based on Mobile Data (adviser: Jie Tian)
- Ryan Taylor Williams: Analyzing Phenology and Drought Impact in the Amboseli Basin of Kenya with NASA-DEVELOP (adviser: Yelena Ogneva-Himmelberger)
- Yan Yan: Predicting Forest Disturbance and Regrowth in the Southern Yucatan, Mexico Using Multi-Date Landsat and Simulation Modelling (adviser: John Rogan)

UNIVERSITY OF MASSACHUSETTS, AMHERST

PhDs:

Sainan Lin (Gaubatz, 2015) Migration, Urban Form and Transformation in a Chinese Model City: Wenzhou Revisited

Masters (Science):

- Kate Blackmer (Wilkie, 2014) Investigating a cartographic niche: Drawing maps for historians
- Cordelia Sand (Vogel, 2015) In Theory, there's Hope for the Future: The Queer Co-(m)motions of Science and Subjectivity

MICHIGAN

CENTRAL MICHIGAN UNIVERSITY

Masters (Science):

- Blunden, Ashley, "Modeling in-stream dissolved organic carbon flux processing from landscape metrics: A case study on agricultural dominant sub-basins in Central Michigan", Advisor: Yong Tian, 2013.
- Comben, Matthew, "Dasymetric Mapping Methods for Population Distribution Utilizing Road Network and Land Cover Weighting", Advisor: David K. Patton, 2014.
- Weighting", Advisor: David K. Patton, 2014. Pawlowski, Joe, "Gas Pipeline Route Selection Using GIS", Advisor: David K. Patton, 2014.
- Sayers, Michael, "Wetland Species Level Identification Feasibility Using Hyperspectral Remote Sensing Techniques", Advisor: Brian Becker, 2014.

MICHIGAN STATE UNIVERSITY

PhDs:

- Benton, Cristina Ramona-Leuca, PhD, "The Diversity of Gentrification in Chicago's Cultural Districts – Exploring Differences in the Artist Class as First Wave Gentrifiers." (Igor Vojnovic) Summer 2014.
- Kotval-Karamchandani, Zeenat, PhD, "The Built Environment, Travel Patterns and Environmental Burdens: A Study of Six Neighborhoods in the Detroit, Michigan Region." (Igor Vojnovic) Fall 2013.
- Lee, Jieun, PhD, "Urban Built Environment and Travel Behavior: Understanding Gender and Socio-Economic Disparities in Accessibility and Mobility of Urban Transportation." (Igor Vojnovic) Spring 2014.
- Moody, Heather, PhD, "The Relationship of Neighborhood Socioeconomic Differences and Racial Residential Segregation to Childhood Blood Lead Levels in Metropolitan Detroit." (Joe Darden) Spring 2014.
- Ye, Minting, PhD, "Exploring the Diversity of Gentrification and the Role of Gender in Hong Kong, 1986-2006." (Igor Vojnovic) Spring 2014.

Masters (Science)

- Babcock, Chad, MS, "Bayesian Hierarchical Spatial Models to Improve Forest Variable Prediction and Mapping with Light Detection and Ranging Data Sets." (Andrew Finley) Spring 2014.
- Doubler, Dana, MS, "A NARR Derived Low-Level Jet Climatology over North America." (Julie Winkler) Fall 2013.
- Keener, Alison, MS, "Natural Landscape Drivers of Total Phosphorus Concentrations in Michigan Lakes." (Catherine Yansa) Fall 2013.
- Kowalski, Daniel, MS, "Comparison of Sand Dune Chronologies in the Great Plains and Eastern Lake Michigan Coastal Zone." (Alan Arbogast) Summer 2014.
- Matney, Jason, MS, "Bayesian Hierarchical Models for Environmental Datasets." (Andrew Finley) Summer 2014.

Other: MS-GIS:

Hemingway, Jacob, MS-GIS (Ashton Shortridge) Spring 2014 Piwarski, Jason, MS-GIS (Ashton Shortridge) Spring 2014 Silvernail, Benjamin, MS-GIS (Ashton Shortridge) Summer 2014

MINNESOTA

UNIVERSITY OF MINNESOTA, TWIN CITIES

PhDs:

- Blumberg, Renata "The Spatial Politics and Political Economy of Alternative Food Networks in Post-Soviet Latvia and Lithuania" (Leitner, Sheppard, 2014)
- Shannon, Gerald, "Rethinking Food Deserts: the practice and politics of food access." (Leitner, Manson, 2013)
- Tesdell, Omar, "Shadow Spaces: Territory, Sovereignty, and the Question of Palestinian Cultivation" (Gidwani, Braun, 2013)

Masters (Arts):

Adovor, Alexander Kwame, Plan B papers (Samatar 2014)

Fei, Ding, Plan B Papers (Gidwani 2013)

- Finlay, Jessica, Plan B Papers (Neely 2013)
- Kernik, Melinda, Plan B Papers (Manson, 2013)
- Snow, Meagan, Plan B Papers (Squires, 2013)
- Torbenson, Max, "Assessing the Dendrochronological and Dendroclimatic Potential of Shasta Red Fir (Abies magnifica var. shastensis) in Northern California and Southwestern Oregon, USA"

Masters (Science):

Masters (Geographic Information Science):

- Alapati, Gayatri "Fukushima-Assessing Societal and Environmental Consequences Using GIS and Remote Sensing" (Knight, 2013)
- Betchwars, Corey "Census Mapping for MetrCCS" (Kne, 2014) Dunsmoor, Joshua "Analyzing Wildfire Risk in Minnesota Using GIS
- and Remote Sensing" (Knight, 2013) Ellefson, Mark "Some Tools and GIS Procedures for Watershed
- Assessment of River Stability and Sediment Supply" (Swobodzinski, 2013)
- Gazdik, Stephen "Spatial Data Collection: A GIS Perspective" (Lindberg, 2013)
- Geurts, Kari "The DNR Forestry Division's Public Land Survey Update Project" (S. McMaster, 2013)
- Gosack, Benjamin "Urban Tree Assessment for the University of Minnesota" (S. McMaster, 2014)
- Johnson, Kristofer "A Spatial Analysis of Bicycle Collisions in the City of Minneapolis" (Harvey, 2013)
- Johnston, Brad "Using GIS to Examine the City of Minnetonka's Maximum Parking Regulation" (Manson, 2013)
- Lewandowski, Teresa "iOS Native App Using ArcGIS SDK for iOS" (Lindberg, 2014)
- Li, Yiwen "Retail and Service Business Mix Analysis of Minnesota's Downtowns" (Matson, 2014)
- Liddle, Patrick "St. Paul Complete Streets Safety Analysis" (Kne, 2013)
- Maalim, Fukhrudin "Food Supply Mapping" (Kne, 2014)

Majewicz, Karen "Lots, Plots and Sections" (S. McMaster, 2013)

- Matthews, Christopher "Phoenix Market Strategy-North Scottsdale & Chandler New Store Recommendations" (S. McMaster, 2013)
- McDonald, Molly " Age Friendly Cities: Combining Public Health and GIS" (S. McMaster, 2014)
- Mommsen, Michael "Accessibility and Ridership of the New York City Subway" (Manson, 2013)
- Moore, Michael "Adding to the Leaf Pile: js Plugin Development" (Kne, 2014)
- Mueller, Jane "Interactive Web Mapping Applications" (S. McMaster, 2013)
- Palka, Stephen "The Minnesota Lidar Solar Study" (Kne, 2014)
- Post, Benjamin "Python and GIS Workshop" (Lindberg, 2014)
- Sa Jr., Weber Pires De "Mapping Santa Catarina, Brazil with SPOT 5 HRS & HRG: A Case Study" (S. McMaster, 2013)
- Shurson, Stephen "Development of a Trail Funding Database" (S. McMaster, 2013)
- Swanson, Matthew "Climate Change Winners: Receding Ice Fields Allow Colony Expansion of Adelie Penguins at Beaufort Island, Ross Sea" (Knight, 2013)
- Sweet, Jessica "Characterizing the Calls: ESR Support Services Intern Project" (S. McMaster, 2014)
- Winzenburg, Lucas "Teaching GIS 101" (S. McMaster, 2013)
- Zhang, Qiushi "GIS and Landscape Analysis in Laketown Township" (Lindberg, 2013)

ST. CLOUD STATE UNIVERSITY

Masters (Science):

Ries, Cole. "Building the House of Prayer in St. Cloud, Minnesota: A Geographic Analysis and Site Suitability Study." (David L. Wall 2013)

MISSOURI

NORTHWEST MISSOURI STATE UNIVERSITY

- Adduci, Joseph "A Critical Analysis of Geospatial Technologies and Educational Needs to Support Homeland Security Missions." (Ming-Chih Hung, 2013)
- DeGayner, Jacob "Evaluating Geospatial Variants of USLE Topographic and Cover Factors Using Digital Close Range Photogrammetry and Legacy Topographic Survey Data." (Yanfen Le, 2013)
- Fallon, Michael "Spectral Mixture Analysis of EO-1 Hyperion Imagery in the Channeled Scablands of Eastern Washington." (Ming-Chih Hung, 2013)
- Jaquet, David "A GIS Multicriteria Analysis for Siting a Sun/Wind Powered Plastic Reprocessing Facility in the Contra Costa County, California Recycling Market Development Zone." (Patricia Drews, 2013)
- Kurinsky, Brian "Power Line Corridor Vegetation Management: Clearing a Path to Reliable Electric Service Using LiDAR." (Ming-Chih Hung, 2014)
- Lowe, Amanda "Using Remotely Sensed Images to Assess Abandoned Mine Land Reclamation." (Ming-Chih Hung, 2013)
- Owens, Jonnathan "Wildfire Risk Assessment and Wildfire Simulation in Southeastern United States Mountainous Areas: Great Smoky Mountains National Park." (Yi-Hwa Wu, 2013)
- Williams, Jessica "Verification of Precipitation Forecasts Associated with Mid-Latitude Cyclones across the Eastern United States." (Ming-Chih Hung, 2013)
- Winn, Michael "A Road Network Shortest Path Analysis: Applying Time-Varying Travel-Time Costs for Emergency Response Vehicle Routing, Davis County, Utah." (Yi-Hwa Wu, 2014)

UNIVERSITY OF MISSOURI

Masters (Arts):

- Groth, Aaron "Social and Environmental Impacts of Big-Leaf Mahogany Logging on Peruvian Indigenous Communities" (Brown, 2014)
- Knieter, David "Decolonizing Conservation? Co-management of natural resources in Bushbuckridge Nature Reserve, South Africa" (Palmer, 2014)
- Moore, Yvonne "Foods Eye View: Using participant-generated data to explore the extent and current scope of urban agriculture in Saint Paul, Minnesota" (Foulkes, 2014)
- Wesley, Aaron "Measuring Community Resilience to Disaster" (Matisziw, 2014)
- Richter, Courtney "Visualizing Geographies of Perceived Safety: An Exploration of Muslim Women's Experiences in Public Space" (Foulkes, 2014)

MONTANA

UNIVERSITY OF MONTANA

- Bordokoff, Peter. "Perceptions of Climate Change and Vulnerability in Upper Svaneti, South Caucasus, Georgia" (Halvorson, 2014)
- Kaiser, Kayde. "Geography's Place in Big Sky Country: A Study of Motivating and Demotivating Factors for Teaching Geography in the Montana Classroom" (Gritzner, 2014)

Masters (Science):

- Eduful, Michael. "Impacts of Urban Land Use Change on Sources of Drinking Water in Kumasi, Ghana" (Shively, 2014)
- Lehr, Morganne. "Modeling Northern Goshawk (Accipiter Gentilis) Nesting Habitat on the Lewis & Clark National Forest Using Eigenvector Filters to Account for Spatial Autocorrelation." (Shively, 2014)
- Heimel, Matthew. "Testing The Utility Of Environmental Cluster Analysis Based On Biodiversity Surrogates For Inland Temperate Rainforest Conservation Planning In The Northern Rocky Mountains" (Shively, 2014)

NEBRASKA

UNIVERSITY OF NEBRASKA, OMAHA

Masters (Arts):

- "A Comparison of Pheasant Habitat Management Carlson, Sonia Programs in Dixon County, Nebraska" (Jeffrey Peake, 2014)
- Trowbridge, Spencer "A Comparison of Digital Elevation Models to Accurately
- Predict Stream Locations" (Rex Cammack, 2014)
- Goeser, Alvin "A Haptic Geography: How it Feels to be Outward Bound" (Christina Dando, 2014)
- Peterson, Nicholas "Racial and Spectral Landscapes of North Omaha: An

Analysis of the Omaha Riots of 1966" (Christina Dando, 2014) Fandry, Kevin "Shifts in Production: Change in Spatial Correlation

- Between Hog and Corn Production" (Rex Cammack, 2013)
- Koepsell, Kelly "The Relationship Between Social Media and Siting of Omaha Restaurants" (Michael Peterson, 2013)

NEVADA

UNIVERSITY OF NEVADA, RENO

PhDs:

- Barnett, Engrid "Comstock Summer of Love: Virginia City, Nevada's Historical, Musical, and Sociocultural Ties to the Psychedelis Esthetic and 'San Francisco Sound' " (Paul Starrs, 2014)
- Johnson, Christine "The Identity of Place: Pitcairn Island in Cultural and Historical Geography" (Gary Hausladen, 2014)
- Catlin, Richard III "Axis Mundi: An Analysis of Byzantine Imperial Geography" (Gary Hausladen, 2014)

Masters (Science):

- Donald, Jonathon "Relationship of pinon juniper woodland expansion and climate trends in the Walker Lake Basin" (Scott Bassett, 2014)
- Norpchen, Derek "Image Segmentation of High Spatial Resolution Imagery: A Comparision of pixel and Object Based Image Classifications of Ash Meadows, Nevada" (Scott Bassett, 2014)
- Kastner, Jacob "Quantifying Great Basin weather severity: An outlook for Nevada's mule deer" (Jill Heaton, 2014)
- Dingemans, Theodore "A 3000 Year Pollena nd Sediment Record of Environmental Change at Zaca Lake, California" (Scott Mensing, 2014)
- Anderton, Haley "The Edible Desert: An inventory of land suitable for urban agriculture & its potential for profit in lower Washoe County, Nevada" (Jill Heaton, 2014)

NEW JERSEY

RUTGERS UNIVERSITY

PhDs:

Lindsav Campbell 10/13 Laura Pangallozzi 10/13 Kavitha Ramsamy 10/13 Marguerite Andrews 1/14 Toby Applegate 1/14 Mark Barnes 1/14 Adam Steinberg 5/14 Abidah Setyowati 10/14 Irene Tung 10/14 Irene Zager 10/14

NEW MEXICO

NEW MEXICO STATE UNIVERSITY

Masters of Applied Geography degrees:

- Roberts, Erin. 2014. Homestead Preservation Districts: Tax Increment Financing Study for the City of Austin, Texas. Advisor: Dr. Christopher Brown.
- Slaughter, Amy. 2014. The Utility of Multispectral Imagery From an Unmanned Aircraft System for Determining the Spatial Distribution of Eragrostis Lehmanniana (Lehmann Lovegrass) in Rangelands. Advisor: Dr. Michaela Buenemann.
- Baldwin, Josh. 2014. Landscape Change in the Greater Gila Ecosystem: A Multi-Scale Geospatial Analysis. Advisor: Dr. Michaela Buenemann.
- Higgins, Katherine. 2014. A Study in Consequences: The Implementation of the National Environmental Policy Act and the Application of Geographic Information Systems to the Assessment of Social Impacts. Advisor: Dr. Christopher Brown.
- Coontz, Carlos. 2014. Elementary School Walkability in Las Cruces, New Mexico: A Geographical Analysis from 1948 to 1999. Advisor: Dr. Bob Czerniak.
- Habrock, Christopher. 2013. An Analysis of Migration from the Caucasus to Russia. Advisor: Dr. Mike Demers.
- Rivera, Alanna. 2013. Catholicism and the Religious Landscape of New Mexico: 1910-2010. Advisor: Dr. Jack Wright.
- Richman, Rebecca. 2013. Spatial and Temporal Analysis of the Mosquito Vectors of Sylvatic Dengue and Chikungunya Viruses in Senegal. Advisors: Dr. Michaela Buenemann and Dr. Kathryn Hanley (Biology).

NEW YORK

BINGHAMTON UNIVERSITY

- Bene, Matlhogonolo. The Geography of HIV Prevalence and Antiretroviral (ARV) uptake in Gaborone, Botswana (Margai, Florence; 2014)
- Burns, Lauren. A Socioeconomic and Physical Impact Assessment of Casino Development: Case Study Seneca Allegany Casino in Salamanca, New York 2000 to 2011 (Henry, Norah F.; 2014)
- Callahan, Patrick. Retail Location Analysis: Trader Joe's (Tettey-Fio, Eugene and Newberry, Jay; 2014)
- Derzanovich, Steven. Urban Villages in the United States: A Locational Analysis (Tettey-Fio, Eugene; 2014)

- Gardner, Maureen. Landslide Susceptibiliy Assessment for the Republic of Moldova: A Spatial Science Approach (Shaker, Richard)
- Huang, Wei. An Analysis of Urban Indicators and Climate Indicators: A Study of Urban Heat Island in Metro Areas of the Chesapeake Bay Region (Newberry, Jay; 2014)
- Lamphere, Danielle. Patterns of Plant Species Biodiversity on River Islands in the Upper Susquehanna River & its Tributaries (Blumler, Mark; 2014)
- Naylor, Francis. Geography of Asymmetrical Conflict: Geographic Perception in post Cheechen War Ingushetia (Hsu, Shin-Yi and Blumler, Mark; 2014)
- Lin, Ya Lin. The Rise of Secondary Chinatowns: Differences of Chinese immigrants in Manhattan Chinatown, Sunset Park and Flushing (Reisinger, Mark; 2014)
- Marshall, Carly. (A Spatial Analysis of Rental Housing Quality in the city of Binghamton, NY as a Result of Landlord Management Practices (Reisinger, Mark; 2013)
- Zhang, Pai. Investigating the Urban Heat Island in Chicago, IL (Newberry, Jay; 2014)

GRADUATE CENTER OF THE CITY UNIVERSITY OF NEW YORK

PhDs:

- Brisbane, Jennifer, "Historical Relationships Between Land Elevation and Socioeconomic Statue in New York City: A Mixed Methods GIS Approach," (Juliana Maantay, 2014)
- Conway, Moira, "Gravity Modeling of Casinos in the United States: A Case Study of Philadelphia," (John Seley, 2014)
- Cox, Jennifer Renee, "Suburban Heat Islands: The Influence of Residential Minimum Lot Size Zoning on Surface Heat Islands in Somerset County, New Jersey." (William Solecki, 2014)
- Spataro, David, "We Work, We Eat Together: Anti-Authoritarian Mutual Aid Politics in New York City 2004-2013." (Cindi Katz, 2014)
- Moore, Katera Ya'Shea, "In Harm's Way: How Philadelphia's Urban Renewal Practices Steered Marginal People to Marginal Land." (Kenneth Gould, 2014)
- Adiv, Naomi. "The Amphibious Public: A Historical Geography of Municipal Swimming and Bathing, New York City, 1870-2013." (Setha Low, 2014)
- Green, Gordon, "Mapping Forest Canopy Structure with On-Demand Fusion of Remotely Sensed Data." (Sean Ahearn, 2014)

SYRACUSE UNIVERSITY

PhDs:

- Bhungalia, Lisa "From the American People": Aid, Counterinsurgency, and the U.S. National Security State in Palestine. (Mitchell, 2013)
- Birge-liberman, Philip "The Ghost of Olmsted: Nature, History and Urban Park Restoration in Boston's Emerald Necklace." (Mosher, 2014)
- Coddington, Kate "Geographies of Containment: Logics of Enclosure in Aboriginal and Asylum Seeker Policies in Australia's Northern Territory" (Mountz, 2014).
- Cullen, Declan "What to Do about Newfoundland? Colonial Reconstruction and the Commission of Government, 1933-1941." (Winders, 2013)
- Cummings, Anthony "For Logs, For Traditional Purposes and For Food: Identification of Multiple-Use Plant Species in Northern Amazonia and an Assessment of Factors Associated with Their Distribution." (Read, 2013)
- Micieli-Voutsinas, Jacquelyn "Rummaging Through the Wreckage: Geographies of Trauma, Memory, and Loss at the National September 11th Memorial & Museum at the World Trade Center." (Mountz, 2014)

- Wang, He "Constructing the Global Production Networks: Development of the Automotive Industry in Changchun and Shenyang, China." (Rutherford, 2014)
- Wells, Kathryn "Housing Crises, Failed Laws and Property Conflicts in Washington, D.C." (Mitchell, 2013)

Masters (Arts):

- Eberle, Bethany "Human Trafficking Databases and Maps." (Winders, 2014)
- Hennigan, Brian "House Broken: The Functions and Contradictions of 'Housing First." (Mitchell, 2013)
- Wang, Sean "Ordinary Families: Queer Sexuality & Adoptive Parenthood in Central New York." (Mitchell, 2013)

STATE UNIVERSITY OF NEW YORK AT BUFFALO

PhDs:

- Frazier, Amy "Transforming Landscape Ecological Evaluations Using Sub-Pixel Classifications: A Study of Invasive Salt cedar (Tamarix SPP.)" (Wang, 2013)
- Kamphaus, Benjamin "Automated Mapping of Sub-Pixel Impervious Surface Area from Landsat Imagery" (Wang, 2014)
- Knight, Jason "Shrinking City, Shrinking Region: A Socio-Spatial Analysis of Demolitions in Buffalo and Emergence of Regional Shrinkage in Erie County, New York" (Bagchi-Sen, 2013)
- Lee, Changho "Collaborative Trends in the Biomedical Sciences: Outcomes, Innovation, and Academic Entrepreneurship" (SBS/Poon, 2013)
- Yang, Yan "Agent-Based Modeling of Social Influence, Traffic Patterns, and Warning Strategies during Hurricane Evacuation" (Metcalf, 2013)

- Bell, Marissa "Nuclear Energy Post-Fukushima: A Media Analysis of Competing Nuclear and Climate Change Risks, 2006-2012" (Hamilton, 2013)
- Boci, Aaron "Groundwater Quality and Contaminant Management: The Sources of Contamination, Hot Spots of Percolation, and Areas Affected in the Village of Springville, NY" (Bittner, 2014)
- Braun, Patrick "Greening the Rust Belt: Land Conservation and Land Use Changes in the City of Buffalo, New York" (Renschler, 2014)
- Cavagnaro, Erin "Identification of Optimal Wetland Restorations Sites: Hudson River Valley, NY" (Mackay, 2014)
- Chin, Liang-Huan "A Flexible Shape Space-Time Cluster Analysis for Influenza Infection Outbreak" (Bian, 2013)
- He, Yuqing "Explorations of a Changing Geographic Information Science: Volunteered Geographic Information and Floodplain Management" (Metcalf, 2014)
- Kankaew, Prasan "Village Population-Based Asymmetric Mapping and Hospitalized Dengue Risk Mapping for Mueang Kamphaeng Phet District, Thailand" (Aldstadt, 2013)
- LeBarron, Megan "A Statistical and Modelling Method in Determining Water Quality Parameters and Best Management Practices for Mitigation of Storm water Runoff" (Jacquez, 2014)
- Liao, Zhen "Exploring Housing Price Prediction Model for the City of Buffalo, New York" (Rogerson, 2013)
- Lin, Yiwen "U.S. Medical Device Exports to China" (Poon, 2014)
- O'Neil, Jennifer L. "Measuring the Effects of Community Gardens on Property and Violent Crime Rates within the City of Buffalo, New York" (Rogerson, 2014)
- Wang, Jiaqi "The Comparison Between two Different liDAR Ground Filtering Algorithms" (Mackay, 2013)
- Wang, Qing "Evaluation of Accessibility to Social Welfare Facilities: Housing Choice Voucher Holders in Erie County, NY" (Yoo, 2013)
- Ye, Chenxi "Prediction of Housing Abandonment in the Buffalo-Niagara Region" (Rogerson, 2014)
- Zhang, Jin "Collaborative Planning for Emergencies Using the PEOPLES Resilience Framework and GIS Project Management Tools- An Interdisciplinary Floor Hazard Assessment Project for Stakeholders of the Cattaraugus Creek Watershed, Western NY" (Renschler, 2014)

Masters (Science):

- Cai, Zesheng "Topmodel Add-In: A Gis Extension for Arcmap That Implements Topmodel to Simulate Streamflow within a Watershed" (Mackay, 2013)
- Cao, Yanxia "Spatial-Temporal Analysis and Modeling for Prenatal Exposure: A Case Study of Erie County, New York" (Renschler, 2014)
- Clarkson, Brian "The Influence of Accuracy, Grid Size, and Interpolation Method of the Hydrological Analysis of Lidar Derived Dems: Seneca Nation of Indians, Irving, NY" (Renschler, 2013)
- Fan, Qinjin "Spatial and Spatial-Temporal Analysis for Lyme Disease in Connecticut" (Rogerson, 2014)
- Gu, Shengnan "Effect of Digital Elevation Model Resolution on Cross Section Generation for Flood Plain Modeling-Seneca Nation of Indian, Cattaraugus Indian Territories" (Renschler, 2013)
- Jiang, Xiangyu "Spatiotemporal Contextual Units for Environmental Exposure Study" (Yoo, 2013)
- Jin, Jie "Locational Analysis of Motor Vehicle Accidents in Shanghai, China" (Rogerson, 2014)
- Jin, Shikai "Analysis of Crime Cases Distribution Pattern of Buffalo City, NY on Spatial and Space-Time Scale" (Mackay, 2013)
- Pu, Xiaojun "Assessing the Effects of Clustered Sampling of Public Land Survey Records for Historic Tree Distribution Reconstruction" (Yoo, 2013)
- Shi, Minyan "Spatial-Temporal Surveillance of Elevated Blood Lead Levels among Preschool Children in Massachusetts" (Wang, 2014)
- Su, Zhitong "Transition Probability Mapping of Dengue Seasonal Spatial Distribution Patterns in Rural Thailand and Conditional Random Simulations for Data Classification" (Aldstadt, 2013)

NORTH DAKOTA

UNIVERSITY OF NORTH DAKOTA

Masters (Arts):

- McGrew, Spencer Crowley "Exploring the impact of zebra mussels (Dreissena polymorpha) on residental lakeshore property values in Otter Tail and Becker counties, Minnesota" (Rundquist, 2013)
- Sergenian, Brett "A comparison of food accessibility from 2002 to 2012 in St. Paul, Minnesota" (Wang, 2014)
- Smith, Mikel Elizabeth "Neighborhood perceptions in the near south side neighborhood of Grand Forks, ND" (Hansen, 2014)
- Young, Lori Jean "Is there a disconnect? Comparing North Dakota and national geography standards" (Munski, 2013)

Masters (Science):

- Braun, Zachary Lee "What stages in the phenology of corn are the most correlated with rainfed corn yields in the Corn Belt using remote sensing?" (Atkinson, 2014)
- Fietzek-DeVries, Rhonda "Historical hydroclimatic change at Theodore Roosevelt National Park: 1895 - 2011" (Todhunter, 2013)
- Striped Face-Collins, Marla "Evaluation of selected spectral vegetation indices in senescent rangeland canopy using Landsat imagery" (Rundquist, 2014)

- Thalacker, Rick James "Mapping techniques for soil erosion: Modeling stream power index in eastern North Dakota", (Vandeberg, 2014)
- Wygant, Melissa Marianne "A place vulnerability analysis of changing flood risk in Grand Forks, North Dakota: 1990-2010", (Todhunter 2014)

OHIO

KENT STATE

PhDs:

- Allen, Mike Allen "An Evaluation of Seasonality through four Delineation Methods: A Comparison of Mortality Responses and the Relationship with Anomalous Temperature Events." (Sheridan, 2014)
- Arnold, Billie Jo "A Comparative Analysis of Glacial Landforms : Skeidarársandur Iceland and northwestern Pennsylvania" (Munro-Stasiuk, 2014)
- Austin, Brad "Perspectives of weather and sensitivities to heat: Social media applications for cultural climatology." (Sheridan, 2014)
- Cartwright-Jones, Catherine "The Geographies of the Black Henna Meme Organism and the Epidemic of Para-Phenylenediamine Sensitization." (Tyner, 2014)
- Kusek, Weronika "The Construction and Development of Diasporic Networks by Recent Polish Migrants to London." (Kaplan, 2014)
- Widner, David "Bridging the Gap Between Traditional Culture and Mainstream Society: Developing an Environmental Education and Stream Health Monitoring Plan to Promote the Improvement of the Sugar Creek Watershed and the Preservation of Swartzentruber Amish Culture." (Munro-Stasiuk, 2014)

Masters (Arts):

- Coakley, Corrine "Activity Space In A Terminal Classic Maya Household, Xeunkal, Yucatan, Mexico." (Munro-Stasiuk, 2014)
- Devadoss, Christabel " Expressions of Tamil Identity: A Fluid Framework of Sound and Visuals." (Kaplan, 2014)
- Henkin, Samuel "From Camps to Closets: Geography of Oppression." (Tyner, 2014)
- Kastelein, Bryce "Vulnerability to Tropical Cyclone Related Mortalities On Hispaniola." (Schmidlin, 2014)
- Korte, David "Three Dimensional Analysis of a Proglacial Clastic Dyke Network Using Ground Penetrating radar, Skeidarársandur, Iceland." (Munro-Stasiuk, 2013)
- Luke, Brandon "Roman Pompeii, Geography of Death and Escape : the Deaths of Vesuvius." (Tyner, 2013)
- Luke, Jacqueline "Urban Community Gardens in a Shrinking City: Community Strength and the Urban Community Gardens of Cleveland, Ohio." (Taylor, 2013)
- McMillan, Sage "Perception of Risk and Benefits of Urban Natural Gas and Oil Wells : a Case Study of Broadview Heights, Ohio." (Kaplan, 2014)
- Will, Rachel "A Critical Meta-Analysis of Community Water Management Outcomes in Peru: Identifying causes of scarcity and the effects of adaptation." (Tyner, 2014)

MIAMI UNIVERSITY OF OHIO

Masters (Arts):

- Flessner, Brandon "Species Distribution Modeling of American Beech (Fagus Grandifolia Ehrh.) Distribution in Southwestern Ohio" (Mary Henry, May 2014)
- Fortney, Chris ""Who Made You the Graffiti Police?": Graffiti, Public Space, and Resistance" (Bruce D'Arcus, May 2014)

- Staton, Nicollette "International Anti-Trafficking Norms in Kosovo: How Local Actors Implement Global Expectations (Carl Dahlman, May 2014)
- Dershowitz, Lisa "A Geographic Examination of Stakeholders' Perceptions of Ecotourism Along The Israel National Trail and Jesus Trail in Israel" (Stan Toops, August 2014)
- Moradi, Sanan "Mellat and Qowm: A Political Geography of 'Nation' and 'Ethnicity' in Iran" (Carl Dahlman, August 2014)

OHIO STATE UNIVERSITY

PhDs:

- Baginski, James "Friending the Feds: Governmental Social media Use in the Neoliberal Era." (Kendra McSweeney, 2014)
- Barnes, Jessica "Aspirational Economies of Self and City: The Values and Governance of Independent Crafters in Columbus, Ohio." (Edward Malecki, 2014)
- Biermann, Christine "A Strangely Familiar Forest: Conservation Biopolitics and the Restoration of the American Chestnut." (Becky Mansfield, 2014)
- Cai, Shanshan "Advancing the Methodolgoies for Mapping Land Cover Trajectories Using MODIS Time Series Data." (Desheng Liu, 2013)
- Chen, Wei "Developing Geographic Question Answering Systems Using GIS, Natural Language Processing, Machine Learning, and Ontologies." (Ningchuan Xiao, 2013)
- Chen, Peter "Bringing time into measures of food access: place vs. people." (Morton O'Kelly, 2014)
- Crane, Nicholas "Between Repression and Heroism: Young People's Politics in Mexico City after 1968." (Mat Coleman, 2014)
- Evenson, Grey "A process-comprehensive simulation-optimization framework for watershed scale wetland restoration planning." (Ningchuan Xiao, 2014)
- Fernandez, Alfonso "Waning and Waxing of Mountain Glaciers in South America: A Modeling Approach Over Multiple Spatial and Temporal Scales." (Bryan Mark, 2014)
- Jeong, Hyeseon "A Nation with a Place in the World: A Postcolonial Critique of the Imagined Geography of South Korea." (Darla Murroe and Dan Sui, 2014)
- La Frenniere, Jeff "Assessing the Hydrologic Implications of Glacier Recession and the Potential for Water Resources Vulernability at Vocan Chimborazo, Ecuador."
- Law, Justine "Sustainable and Equitable Energy? The Diverse Economies of Wood Energy in Vermont and the Upper Peninsula of Michigan." (Kendra McSweeney, 2014)
- Nicolas, Julien "Atmospheric change in Antarctica since the 1957-1958 International Geophysical Year." (David Bromwich, 2013)
- Roy, Anurupa "The Political Economy of the New Urban Development in India." (Kevin Cox, 2014)
- Zhu, Xiaolin "Generating High Quality Landsat Time Series and its Applications in Forest Studies." (Desheng Liu, 2014)

Masters (Arts):

- Guo, Wenkai "The relationship between sea ice retreat and Greenland ice sheet surface-melt." (Bryan Mark, 2014)
- Kay, Samuel "Small Particles in the Big City: Uneven Adaptation and Atmospheric Governance in Beijing." (Dan Sui, 2014)
- Nosee-Leirer, Emily "Future Focused Planning? The Role of Environmentalism and Sustainability in the Redevelopment of Post-Katrina New Orleans." (Kevin Cox, 2014)
- Wehmann, Adam "A Spatial-Temporal Contextual Kernel Method for Generating High-Quality Land-Cover Time Series." (Desheng Liu, 2014)

Masters (Science):

Morley, Ken "An Analysis of the Risk Posed by Tropical Cyclones along the Gulf Coast of the United States." (Jay Hobgood, 2014)

- Patrick, Nathan "Evaluating near surface lapse rates over complex terrain using an embedded micrologger sensor network in Great Basin National Park." (Bryan Mark, 2014)
- Sinclair, Colin "Glacial and Groundwater Contribution to Dry-Season Discharge and Bofedales in Tuni, Cordillera Real (Bolivia), and Pastoruri, Cordillera Blanca (Peru)." (Bryan Mark, 2014)

UNIVERSITY OF TOLEDO

PhD (Spatially Integrated Social Sciences):

Ames, April "Application of Geographic Information Systems to investigate the association of health symptoms near biosolid applied fields". (Dr. K. Czajkowski, 2014)

Masters (Arts):

- Chester, Winston "Examining the impacts of microfinance programs in Guatamala: A case study of loan borrowers in San Antonio Aguas Calientes". (Dr. Bhulyan Alam, 2014)
- Griswold, Michael "Community Schools: Catalyst for comprehensive neighborhood-based Initiatives" (Dr. Sujata Shetty, 2014)
- Kantharaj, Krithica "Evaluating coverage models for emergency services: a case study of emergency siren placement in Lucas County, Ohio" (Dr. P. Lindquist, 2014)
- Osterday, Elyse Rene "Government Policy and Total Fertility Rates: An Analysis of Germany in Stage Five of the Demographic Transition Model" (Dr. Beth Schlemper, 2013)
- Panchenko, Evgeny "Sustainable Planning of Linear Infrastructure Corridors in Remote Areas" (Dr. P. Lindquist, 2014)
- Reynolds, Elaine "An Automated Method of Identifying the Location of Agricultural Field Drainage Tiles in Northwest Ohio" (Dr. K. Czajkowski, 2014)

Master's (Arts and Education):

- Anastasoff, Jacob "Can one person help alter the negative environmental impacts of our planet? (Dr. K. Czajkowski, 2014)
- Belcher, Tysen "Why Should We Detect Earth's Movement Under Our School Implementing PBS in Middle School Science" (Dr. K. Czajkowski, 2014)

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

PhDs:

- Bombom, Leonard "Deciphering Activity Patterns using the Time-Geography Framework: A Case Study of Oklahoma State University. Stillwater Campus." (Hongbo Yu. 2014)
- Lightfoot, Victoria "The Value of Walkability in Midtown Tulsa." (Jon Comer, 2014)

Masters (Science):

- Kusselson, Scott "Investigating How Land Use Patterns Affect Traffic Accident Rates near Frontage Road Cross-Sections: A Case Study on Interstate 610 in Houston, Texas." (Hongbo Yu, 2013)
- Barrow, Joel "A Geographical Study of the Varying Impact of Denominational Affiliation and Poverty on Presidential Voting in Kansas: 1972 to 2012." (Allen Finchum, 2014)
- Cox, Thomas "Spatial and Geomorphological Analysis of Mammoth Localities in Western Oklahoma." (Carlos Cordova, 2014)
- Haffner, Matt "Measuring Social Interaction Potential in Oklahoma City and Tulsa." (Hongbo Yu, 2014)

OREGON

OREGON STATE UNIVERSITY

PhDs:

Veilleux, Jennifer C. "Is Dam Development a Mechanism for Human Security? Scale and Perception of the Grand Ethiopian Renaissance Dam on the Blue Nile River in Ethiopia and the Xayaburi Dam on the Mokong River in Laos." (Aaron Wolf, 2014)

Masters (Science):

- Costello, Denise H. "An evaluation of a Water, Sanitation, and Hygiene (WASH) Program for Rural Communities in Northern Afghanistan." (Michael Campana, 2014)
- Nelson, Jake R. "Risky Business: Evaluating the Vulnerability and Impacts from Simulated Oil Spills in the Gulf of Mexico." (Tony Grubesic, 2014)
- Sim, Lawrence H. "Blowout and Spill Occurrence Model." (Jim Graham, 2014)
- Wood, Douglas T. "How Well Do American Viticultural Areas Correspond with the Soil Classes in Oregon's Northern Willamette Valley? A Question for the Wine Industry." (Larry Becker, 2014)

PORTLAND STATE UNIVERSITY

Masters (Arts):

Gladstone, Fiona "Safety in Maize: Subsistence Agriculture in a Zapotec Town" (Works, 2014)

Masters (Science):

- Breyer, Elizabeth "Household Water Demand and Land Use Context: A Multilevel Approach" (Chang, 2014)
- Devenish, Alan "Ariege's development conundrum" (Brower, 2014)
- Hoyer, Robert (Wes) "Scenario Development and Analysis of Freshwater Ecosystem Services under Land Cover and Climate Change in the Tualatin and Yamhill River Basins, Oregon (Chang, 2013)
- Keifer, Jarrett "Agricultural Classification of Multi-Temporal MODIS Imagery in Northwest Argentina Using Kansas Crop Phenologies" (Duh, 2014)
- Psaris, Alexander (Mike) "Assessing water-related ecosystem service shifts resulting from implementation of BMPs in the face of climate change and land use change (Chang, 2014)
- Ramsey, Greer "An Analysis of Vegetation Recovery following Dam Removal at Hemlock Recreation Site, Washington" (Lafrenz, 2014)
- Rohdy, Stephanie "Soil Development and Vegetation Response to a Small Dam Removal, Lassen Volcanic National Park, California (Lafrenz, 2013)
- Spell, Lindsay "Controlling the Empire: Measuring Ethnic Residential Segregation in London, 2001-2011" (Works, 2014)
- Todd, Alexa "Mapping Sociocultural Values of Visitors on the Olympic Peninsula, Washington" (Poracsky)

Other: Masters (Research Papers):

- Hennings, Ray "Stream Temperature Management in the Tualatin Watershed: Is it Improving Salmonid Habitat?" (Bulman, 2014)
- Jones, Allison "Industrial Decline in an Industrial Sanctuary: Portland's Central Eastside Industrial District, 1981-2014" (Works, 2014)
- Loehlein, Neil "Rivers of Steel: The Economic Development of Seattle During the Rail Age, 1870-1920" (Works, 2014)
- Logan, Dan "The Risks of the Rose City: Assessing the Social Vulnerability of Communities to Multiple Environmental Hazards in the Portland Metropolitan Area (Duh, 2014)

- Loreno, Sara "The Cost of Hauling Timber: A Comparison of Rasterand Vector- Based Travel-Time Estimates in GIS" (Duh, 2014)
- Masters, Jill "Predicting temperature in Western Cascade Mountain streams using a mass balance approach" (Chang, 2014)
- Morris, Randy "The Cully Park Inter-Tribal Gathering Garden: Placemaking Through Indigenous Eco-cultural Reclamation" (Bulman, 2014)
- Scriven, Annie "Top-Down Nationalism in Post-Soviet Kazakhstan" (Works, 2013)
- Singh, Sonia "Property tax rates as an indicator of neighborhood change: An examination of an unanticipated effect of Measure 50 in the City of Portland" (Works, 2014)

OREGON STATE UNIVERSITY

PhDs:

Veilleux, Jennifer C. "Is Dam Development a Mechanism for Human Security? Scale and Perception of the Grand Ethiopian Renaissance Dam on the Blue Nile River in Ethiopia and the Xayaburi Dam on the Mokong River in Laos." (Aaron Wolf, 2014)

Masters (Science):

- Costello, Denise H. "An evaluation of a Water, Sanitation, and Hygiene (WASH) Program for Rural Communities in Northern Afghanistan." (Michael Campana, 2014)
- Nelson, Jake R. "Risky Business: Evaluating the Vulnerability and Impacts from Simulated Oil Spills in the Gulf of Mexico." (Tony Grubesic, 2014)
- Sim, Lawrence H. "Blowout and Spill Occurrence Model." (Jim Graham, 2014)
- Wood, Douglas T. "How Well Do American Viticultural Areas Correspond with the Soil Classes in Oregon's Northern Willamette Valley? A Question for the Wine Industry." (Larry Becker, 2014)

PENNSLYVANIA

IUP-INDIANA UNIVERSITY OF PENNSLYVANIA

Masters (Science):

- Applebaum, Rachel "Spatial Manifestation and Trends of Cremation in Pennsylvania" (Kevin Patrick, 2015)
- Schwab, David "Applying Spatial Analysis to Detect Traffic Crash Patternsin a Rural County and Statistical Analysis to Associate Contributing Factors " (Robert Sechrist, 2015)
- Tokosh, Joseph "The Spatial Distribution of Causal Factors of Declining Retail Establishments: The Case of Century III Mall, West Mifflin, PA " (John Benhart, 2015)

PENNSYLVANIA STATE UNIVERSITY

PhDs:

- Adams, Jennifer PhD Higher Education in the United States: A Historical, Descriptive, and Spatial Analysis (Roger M. Downs, 2014)
- Amador, Nathanael PhD Mapping Greenland Supraglacial Melt Lakes and the Role of Local-and Synoptic- Scale Climates in their Variations (Andrew Carleton and Richard B. Alley, 2015)
- Bianchetti, Raechel PhD Looking Back to Inform the Future: The Role of Cognition in Forest Disturbance Characterization from Remote Sensing Imagery (Alan M. MacEachren, 2014)
- James, Ann PhD Feeding Hungry People: An Investigation of U.S. Food Assistance Programs (Lakshman Yapa, 2014)

Livecchi, C. PhD - There's No Place Like Home: Home, Mobility, and U.S. Military Kids (Lorraine Dowler, 2014)

Luo, Wei PhD - Geovisual Analytics Approaches for the Integration of Geography and Social Network Contexts (Alan M. MacEachren, 2014)

- Read, Mark PhD Embracing Uncertainty:Scenario Planning for Climate Change-Security Challenges and Opportuinities (William Easterling, 2014)
- Tyrna, Abbey PhD Characterizing the Network Structure of Headwater Riparian Wetlands in the Ridge and Valley Region, Pennsylvania (Robert P. Brooks, 2015)

Masters (Science):

- Bailey, Teresina MS The Smithsonian Institution's Heritage as Gristmill of Hegemonic Power on the National Landscape (Deryck W. Holdsworth, 2015)
- Hann, Erica MS From Calibers to Cameras: Botswana's Ban on Trophy Hunting and Consequences for the Socioecological Landscape of Ngamiland District (Brian King, 2015)
- Koby, Peter MS Digital Visualization of Colonial Cartography: Patterns of Wealth in the Sugar Colony of Barbados (Deryck W. Holdsworth, 2014)
- Marshall, Andrew MS Kitsap County, Washington and the Trident Submarine: Expanding the Concept of the Gunbelt (Deryck W. Holdsworth, 2014)
- Mullins, Ryan MS Interpretive Uncertainty and the Evaluation of Symbols and a Taxonomy of Symbol Evaluation Methods and Mobile Evaluation Tool (Alan M. MacEachren, 2014)
- Sinclair, K. Heather MS Barriers and Bridges to Adaptive Capacity: A Case Study on Water Governance in the Middle Hills of South Central Nepal (Petra Tschakert, 2015)
- Townsend, Andrew MS Revisiting Mesopredator Release: Carnivore Dynamics Along a Gradient of Landscape Disturbance (Robert P. Brooks, 2014)

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA

PhDs:

- Collins, Larianne "Tradition or Technology? : The Impact of Paper Versus Digital Map Technology on Students' Spatial Thinking Skill Acquisition" (Jerry Mitchell, 2014).
- Cottrell, Catherine "Youth Citizenship, Civic Education and Spaces of Belonging in Tallinn, Estonia. (Caroline Nagel, 2013).
- Gao, Peng "Uncovering the Structures in Ecological Networks: Multiple Techniques for Multiple Purposes". (John Kupfer, 2013).
- Sulweski, Leanne "A Geographic Modeling Framework For Assessing Critical Infrastructure Vulnerability: Energy Infrastructure Case Study". (Michael Hodgson, 2013).
- Thompson, Mary "Re-examining the Past and Rethinking the Future at Mount Mulanje Forest Reserve, Malawi: New Directions for Local Engagement". (Edward Carr, 2013).

Masters (Arts):

Hogan, William "Contested Identities and Language Education: Inculcating Nationalist Ideologies in the Basque Region". (Caroline Nagel, 2013)

Masters (Science):

- DuBois, Michael "Complexity and Salience: Evaluating the interscene Variablility of animated Choropleth maps" (Sarah Battersby, 2013)
- Fletcher, Sara "An Assessment of Technology Adoptability in Sugarcane Burning Smoke Plume Mitigation" (April Hiscox, 2013)

SOUTH DAKOTA

SOUTH DAKOTA STATE UNIVERSITY

Masters (Science):

- Cotillon, Suzanne "Impacts of Land Cover Changes on Ecosystem Services Delivery in the Black Hills Ecoregion from 1950 to 2010. " (D. Napton, 2013)
- Phuyal, Khem "The Protective Role of Mangrove Forest for the Coastal Communities in the Asian Tsunami of 2004." (B-Option) (T. Jackson, 2013)
- Mfuka, Confiance "Characterizing Spectral Signatures for Forest Cover and Change Using Field Data: A Case-Study of Kimvula Territory in Democratic Republic of Congo from 2000 to 2010." (T. Jackson, 2013)
- Bernau, Matthew "Energy in the Corn Belt: Is Maize Production Sustainable?" (D. Napton, 2013)
- Siebrasse, Nicole "Culture and the Global Diffusion of Tennis" (F. Gritzner, 2013)
- Thapa, Saroj "Evaluation of WELD Landsat Data for Monitoring Land Cover Change in the Pacific Northwest." (D. Napton, 2014)
- Sampson, James D. "The Concrete Stave Silo Landscape: Diffusion of Agricultural Technology in Northwestern South Dakota" (J. Gritzner, 2014)
- Maier, Christopher "Pakistan: A Presidential Perception A Discourse Analysis of Presidential Speeches by Presidents, Ronald Reagan, Bill Clinton, and George W. Bush" (R. Watrel, 2014)
- Young, Claudia J. "Impacts of Soil Distribution on the Landscape and Soil Organic Carbon of the Temperate Prairies of the United States." (D. Napton, 2014)
- Hoekman, Kevin "The New Urban Revival: Construction of Place in Downtown Sioux Falls, South Dakota" (H. Hungerford, 2014)
- Forsythe, Charles (Riley) "A Comparison of Forest Disturbance Based on Land Ownership and Topography in the Conterminous United States, 2006-2010." (T. Jackson, 2015)

TENNESSEE

UNIVERSITY OF TENNESEE, KNOXVILLE

PhDs:

- Baker, Andrew "Indycar Races and the Marketing of Places: A Geographic and Marketing Analysis of Indycar Racing in the United States" (Bell, 2013)
- Luffman, Ingrid "Geographic and Socioeconomic Risk Factors for Sporadic Cryptosporidiosis and E. Coli Infection in East Tennessee" (Tran, 2013)
- Martin, Derek "Large Woody Debris in a Midwestern River: Spatial Patterns and Effects on Sediment Storage" (Harden, 2014)

Masters (Science):

- Alsobrook, Anna "A Multi-dimensional Analysis of the Great Green Wall in Senegal: a Study of Afforest-atation on a Human Landscape" (Harden, 2014)
- Haverkamp, Jamie "Eploring Anticipatory Adaptation to Climate Change: Institutional Perceptions and Actions in Hampton Roads, VA" (Harden, 2014)
- Kaufman, Jason "An Analysis of the Patterns of Crime and Socioeconomic Status Visualized Through Self-Organized Maps" (Tran, 2014)
- Kerr, Matthew "Bulk Stable Isotope and Biomarker Analysis of Forest Clearance and Maize Agriculture at Laguna Santa Elena, Costa Rica" (Horn, 2014)

- Lynch, Grant "Linking Stream Sediment Metrics and Aquatic Macroinvertebrate Status in East Tennessee Streams" (Harden, 2013)
- Martinez, Maria "Mapping Spatial Thematic Accuracy Using Indicator Kriging" (Tran, 2013)
- Rutledge, Austin "GIS for Facility Management in Secondary Education: A Case Study of South-Doyle High School in Knoxville, TN" (Shaw, 2013)

TEXAS

TEXAS STATE UNIVERSITY

PhDs:

- Brysch, Carmen "An Analysis of Teacher Satisfaction with online Professional Development in Geography." (Boehm, 2014)
- Dahal, Khila "An Agent-Based Irregular Automata Model of Urban Land Use Dynamics." (Chow, 2014)
- Kleitches, Larry "Geoeducational Agents: The Influence of Motion Pictures and Television Programs on Geographic Recognition." (Butler, 2013)

Lin, Yan "Cervical Cancer Disparities in Texas." (Zhan, 2014)

- Mathews, Adam "Assessing Grapevine Canopy Health in the Texas Hill Country with Remote Sensing and GIS Techniques." (Jensen, 2014)
- Nicosia, David "Simulating Uncertainty in Volunteered Geographic Information." (Zhan, 2013)
- Scholz, Michael "Increased Participation in AP Human Geography by Ninth Grade High School Students: Impacts on APHG Teaching, APHG Learning, and Recruitment in Geography." (Boehm, 2014)
- Verma, Kanika "Geospatial Thinking of Undergraduate Students in Public University in the United States." (Estaville, 2014)
- Zavar, Elyse "Reopened Space: A Geographic Cast Study of Floodplain Buyouts in Lexington, KY." (Hagelman, 2014)
- Zech, Jamie "From Grass Roots to Tree Tops: Success, Scale, and the Geography of Environmental Movement Organizations." (Tiefenbacher, 2014)
- Zhao, Naizhuo "Integration of Ecological and Social Systems using Remote Sensing Data: A Case Study of Net Primary Production and Gross Domestic Product in China." (Currit, 2014)

Masters (Science):

- Lockie, Jason "Hydraulic Fracturing in the Barnett Shale Region: Identifying Potential Pathways for the Pollution of Surface Water Resources." (Butler, 2014)
- McCreight, Justin "Modeling of Urban Growth and Land Cover Change: An Implementation of the Sleuth Model for San Marcos, Texas." (Jensen, 2013)
- Molidor, Elizabeth "Coping with Drought: Food Producers and the 2011 Drought of Record." (Blue, 2013)
- Shelton, Thomas "Spatial- Temporal Cluster Analysis to Identify Emerging Agglomeration of Texas Wineries, 1973-2013." (Tiefenbacher, 2014)
- Stengel, Victoria "Comparing Hydrologic Response Before and After the 2011 Bastrop Complex Wildfire." (Chow, 2014)

Other: Master of Applied Geography - M.A.Geo:

- Allbritton, Stacey "Eagle Ford Shale Production: Infrastructure Effects in LaSalle County and Cotulla, Texas." (Huebner, 2013)
- Blackmon, Brandon "A Risk Assessment of the Flood Hazard for Willow Springs Creek in San Marcos, Texas." (Blanchard, 2014)
- Delion, Melanie "Habitat Use and Modeling of the American Black Bear (Ursus americanus)." (Jensen, 2014)

- Denney, Kara Lee "Analyzing Beaver Pond Morphology using GIS."(Butler, 2014)Hartman, Richard "A Review of Methodologies to Determine the Economic Value of Greenways." (Larsen, 2014)
- Henkhaus, Jamie "Using GIS to Map Migrant Death Clusters by Cause of Death and Year in Arizona." (Giordano, 2014)
- Kohlrenken, William "Estimating in Situ Groundwater Recharge to the Llano uplift Aquifer System using GIS." (Earl, 2013)
- Lazarine, Coby "Impact of a Shale Production Boom: A Case Study of Karnes County, Texas." (Blanchard, 2013)
- Lee, Richard "Assessment of Vegetation Regeneration Following the Bastrop Complex Wildfire." (Chow, 2013)
- Lipps, Elizabeth "Land Cover Change in a Texas Town in the Booming Eagle Ford Shale." (Jensen, 2014)
- Moore, Virginia "Identifying Settlement patterns using GIS in the Seacow Valley, South Africa." (Giordano, 2013)
- Nava, Monique "What Lies Beneath: The Physical and Demographic Vulnerability of San Marcos, Texas to Natural Gas Pipeline Explosions." (Macey, 2014)
- Partab, Sharmila "Characterizing Land Use and Land Cover Changes in Northeast Bexar County from 1990 to 2010." (Chow, 2013)
- Sandmann, Phillip "High School Geomorphology Lesson Plans: A Foundation." (Butler, 2014)
- Spencer, Ryan "Texas Outdoor Family: A Study of Family Camping in Texas and Outdoor Education Success." (Earl, 2013)
- Stubbs, Amy "Risk of Technological Hazards Perceived by Texas Emergency Mangers and Planners." (Macey, 2013)
- Tolman, Kristina "Habitat Characterization of Zizania Texana in the San Marcos River." (Currit, 2014)
- Tucker, Michael "Public Perception of Reclaimed Wastewater as a Municipal Water Supply." (Earl, 2013)
- Ulloa, Octavio "Association of Childhood Obesity, Dental Caries, and the Food Environment at the School Level." (Lu, 2013)
- Wallace, Jason "Fear of Campus Crime in Young Undergraduate Students." (Furhmann, 2013)
- Watson, Dean "Examining the Fluctuations of Comal Springs Flow Rates and Associated Social and Climatic Contributors." (Earl, 2013)
- Woodworth, Philip "Optimal Site Location of Emergency Facilities and Least Cost Plans in Response to Oil and Natural Gas Disasters: A Case Study of Panola County, Texas." (Lu, 2014)
- Zadrozny, Joanna "STEM Corps: A Workforce Enhancement Experience for At-Risk Students." (Boehm, 2014)

TEXAS TECH UNIVERSITY

Masters (Science):

- Lambert, Tiffany "Analysis of Marine Stratus Surges in the Pacific Northwest"
- Post, Jason "Spatial Environmental Inequality in Lubbock, Texas"
- Dunkerson, Cullen "Living with Continuous Risk: Tornadoes and Place Attachment in Moore, Oklahoma"

UNIVERSITY OF NORTH TEXAS

Masters (Science):

- Evan Carpenter. Identifying cultural and non cultural factors affecting litter patterns in Hickory Creek, Texas.
- Alicia Gray. Importance and spatial distribution of Phytopthora ramorum host species in a coast redwood forest.
- Kereen Griffith. Effects of vegetation structure and canopy exposure on small-scale variation in atmospheric deposition inputs to a mixed conifer forest in California.
- Mehrdad Koohikamali. Assessment of post earthquake building damage using high resolution satellite images and LiDAR: A case study from Port-au-Prince, Haiti.

Trevor Yarbrough. Retail change and light rail: An exploration of business location changes accompanying commuter rail development in Denton County, Texas.

UNIVERSITY OF TEXAS AT AUSTIN

PhDs:

- Aguirre, Claudia "Work streaming / Mainstreaming Gendered Land Use and Land Cover Change (GLUCC): Afro-descendant Communities in the Pacific Region of Colombia" (Crews, 2013)
- LaFevor, Matthew "Conservation Engineering and Agricultural Terracing in the Puebla-Tlaxcala Valley, Mexico" (Doolittle, 2014)
- Mishra, Niti "Conservation Engineering and Agricultural Terracing in the Puebla-Tlaxcala Valley, Mexico" (Crews, 2014)
- Munoz, Solange "Squatters and the Right to the City: Waiting for Eviction in Buenos Aires, Argentina" (Zonn, 2014)
- Oswald, John "The Social and Spatial Dimensions of Thenic Conflict: Contextualizing the Divided City of Nicosia, Cyprus" (Butzer, 2013)

Shafer, Kathleen "Marfa, Texas: Land and Light" (Adams, 2014)

- Ulack, Christopher "Iraqi Refugee Resettlement And Integration In The United States: A Perspective From Austin, Texas" (Butzer, 2013)
- Wilcox, Sharon "Encountering El Tigre: Jaguars, Knowledge, and Discourse in the Western World, 1492-1945" (Zonn, 2014)

Masters (Arts):

- Clary, John "Digital Geographies of Transnational Spaces: A Mixed-Method Study of Mexico-US Migration" (Adams, 2014)
- Clause, Vincent "Integrating Geologic and SRTM Data to Identify Geomorphologic Landforms in the Eastern Amazon River Valley" (Latrubesse, 2014)
- Laue, Justin "The Extent of Reductions to Protected Areas in the Brazilian Amazon: Case Study of Amazon National Park" (Arima, 2014)

UTAH

UNIVERSITY OF UTAH

PhDs:

- Burgess, Ann "Hydrologic Impacts of Dust on Snow in the Upper Colorado River Basin." (Thomas Painter/Richard Forster, 2014)
- Huang, Hao "Geographic Information System Spatial-Temporal Evolution of Multiscalar Patterns and Determinants of Foreign Direct Investment in China." (Yehua Dennis Wei, 2014)
- Liao, Haifeng "Geographic Information System Spatial Analysis of Urban and Regional Development in China: A Case Study of Guangdong Province." (Yehua Dennis Wei, 2014) Turrin, James "Flow Instabilities of Alaskan Glaciers." (Richard
- Forster, 2014)

Masters (Science):

- Butler, Jared "The role of early life socioeconomic status in female breast cancer incidence." (Kevin Henry, 2013)
- Freeman, Michael "Flow reversal events and statistical modeling of flow dynamics of hypersaline water across a constructed causeway, Great Salt Lake, Utah, USA." (Kathleen Nicoll, 2014)
- Gold, Brittany "Observations of Diurnal Melt-freeze Events Using Time Domain Reflectometry (TDR) in Seasonal Snowpack. (Richard Forster, 2014)
- Klein, Korey "Tracking a Wildfire in Areas of High Relief Using Volunteered Geographic Information: A Viewshed Application. (Thomas Cova, 2014)

Other: Masters (GIS): Barklow, Kaitlin (Philip Dennison, 2014)

VIRGINIA

GEORGE MASON UNIVERSITY

PhDs:

- Attaway, David "A Spatial, Temporal, and Geographic Analysis of the Increasing Incidence of Dengue Fever in Kenya and Africa (Nigel Waters, 2014)
- Ayalew, Balehager "Integrating GIS and Remote Sensing Technology for Managing Tef Production in Ethiopia (John Qu, 2014)
- Christopher, Steven C. "Migration and the Migrant in Major U.S. Metropolitan Areas During America's Great Recession" (Timothy Leslie, 2014)
- Grossman, Stanley "An Automated Directed Spectral Search Methodology for Small Target Detection" (Anthony Stefanidis, 2014)
- Jackson, Steven "Analyzing Contribution Patterns of Volunteered Geographic Point Features in Relation to Errors and Dempographics" (Peggy Agouris, 2014)
- Li, Sanmei "Development of an Integrated High Resolution Flood Product with Multisource Data" (Donglian Sun, 2014)
- Mullen, William "Evaluation of Spatial and Data Quality Aspects of Volunteered Geospatial Information" (Peggy Agouris, 2014)
- Peng, Chunming "Integration of Remote Sensing and Meteorological Data for Monitoring Agricultural Drought" (Liping Di, 2014)
- Schnebele, Emily "Fusion of Remote Sensing and Non-authoritative Data for Flood Disaster and Transportation Infrastructure Assessment" (Guido Cervone, 2014)
- Wu, Di "An Investigation of Agricultural Drought on the United States Corn Belt Using Satellite Remote Sensing and GIS Technology" (John Qu, 2014)

Master's:

- Anolik, Allison Carmel "A Suitable Model for High Speed Intercity Passenger Rail (HSIPR) Station Sitting in Dallas, Texas: A Geographic Information Science Approach" (Matt Rice, 2014)
- Bosco, Dias, Shawn "Disaster (Wildfire and Earthquake) Response Geo Mashup. An Automated Geovisualization Tool for Disaster (Earthquake and Wildfire) Response for the United States" (Chaowei Yang, 2014)
- Cabassa, Maria Alexandra, Comprehensive Exam (Rich Medina, 2014)
- Chang, Christopher, Comprehensive Exam (Nigel Waters, 2014)
- Dougherty, Christine "Long-term Monitoring of Post-Fire Vegetation Recovery: A Case Study in Winnemucca District, Nevada" (Rich Medina, 2014)
- Eggleston, Lydia E., Comprehensive Exam (Timothy Leslie, 2014)
- Hooley, Reuben "External Geographic Effects Upon Real Estate Prices" (Ruixin Yang, 2014)
- Jensen, Abby A., Comprehensive Exam (Nigel Waters, 2014)
- Lovo, Andrew J., Comprehensive Exam (Nigel Waters, 2014)
- Mendiola Jr., Roger Albert, Comprehensive Exam (Matt Rice, 2014)
- Mirr, Jessica, Comprehensive Exam (Matt Rice, 2014)
- Noble, Christopher A. "Understanding Hospital Capacity: A Simple Model to Understand Healthcare Infrastructure Limitations and to Assist in Crisis Planning and Consequence Management" (Paul Delamater, 2014)
- Paex Wulff, Fabiana Isabel "Recruitment, Training, and Dynamics in Geo-Crowdsourcing for Accessibility" (Matt Rice, 2014)
- Pease, Patricia A. "A Study of the Influence of Training on Position and Attribute Accuracy in Geo-Crowdsourcing and Citizen Science Applications (Matt Rice, 2014)
- Petretich, Michael L., Comprehensive Exam (Arie Croitoru, 2014)
- Reddy, Ashwan, Comprehensive Exam (Timothy Leslie, 2014)

Rodriguez Jr., Richard, "Using Twitter to Create A Network of States for Sub-Saharan Africa" (Anthony Stefanidis, 2014)

Shermeyer, Jacob "Change Detection and Remote Sensing Methodologies to Track Deforestation and Growth in Threatened Global Rainforest" (Barry Haack, 2014)

Szelak, Nicholas M., Comprehensive Exam (Matt Rice, 2014)

Wells, Carter L. "Using Flickr to Improve Remote Sensing Classification in Disaster Areas" (Anthony Stefanidis, 2014) Zhou Nanyin, Comprehensive Exam (Ruixin Yang, 2014)

WASHINGTON

CENTRAL WASHINGTON UNIVERSITY

Masters (Science):

- Bowlin, Ryan "The Newton Collection: Testing a Purported Winter Village with Surface Lithics" (Lubinski P., 2012 (Winter)
- Cannon, Jamie "Prioritizing Forest Restoration Treatments Areas Using Decision Support and Geospatial Analysis on the Okanogan-Wenatchee National Forest, Washington, USA" (Hickey R., 2012 Summer)
- Cloran, Cath "Defining the Level of State Forest Use: A Visitor Monitoring Recreation Assessment at Naneum Ridge State Forest, Washington State" (Barlow, K., 2012 Winter)
- Evans, Jennifer "Incorporating LiDAR and GIS to Model the Presence of Gullies at Yakima Training Center, Washington" (Huckabay, J., 2012 Spring)
- Jankowski, Stephen Todd "Testing the Pointing Cairn Hypothesis: Analysis of Stacked Rock Features At 35LK1483" (Lubinski, P., 2012 Spring)
- Jensen, Dawn Marie "Species diversity of biological soil crust lichen and moss in the Whiskey Dick Mountain Area Kittitas County, WA." (Lipton J./Cottrell, T., 2012 Fall)
- Lauver, Eric "Evaluation of Fall Chinook Egg-To-Fry Survival Study Methods in the Priest Rapids Hatchery Discharge Channel" (Lubinski, P. 2012 Summer)
- Reese, Angie "A Comparative Study of Soil Moisture on Cultivated and Conservation Reserve Program Land in Douglas County, Washington" (Lillquist, K. 2012 Spring)
- Shea, Holly "The Grissom Site (45KT301): A Review and Synthesis of Investigations and Exploration of the Site's Research Potential" (Lubinski, P., 2012 Spring)
- Sheahan, Jamie "Headcut Incision Height as an Indicator of Vegetation Change: A Hydroecologic Assessment of Incision, Vegetation, and Soils Interrelationships in Two Riparian Meadows, Ochoco National Forest, Oregon" (Gabriel, A., 2012 Winter)
- Valenta, Jared "The Identification and Historic Context of Mining Archaeology of the Wenatchee Mountains within the Alpine Lakes Wilderness" (Lubinski, P., 2012 Spring)
- Winter, Tom "Mass Wasting in the Yakima River Canyon, Washington: An Inventory and Hazard Assessment" (Lillquist, K., 2012 Spring)
- Adjepong, Godfried "Toward Sustainable Water Resource Management in Ghana, a case study from the Birim River Sub-Basin" (Barlow, K., 2011 Winter)
- Batura, Darcy "Backcountry Campsites at Waptus Lake, Alpine Lakes Wilderness, Washington: Changes in Spatial Distribution, Impacted Areas, and Use Over Time" (Lillquist, K., 2011 Spring)
- Black, Jill "Extraction of Mitochondrial DNA from Prehistoric Dental Calculus" (Lorenz, J., 2011 Summer)
- Davidson, Charity "Developing Methods to Detect Litter Vulnerability on Public Lands, Washington State" (Gabriel, A., 2011 Fall)

- Dilworth, Erin "Coupling Intertidal Community Surveys and Management Strategy Evaluations to Assess the Effectiveness of Marine Protected Areas in the Puget Sound, Washington" (Gabriel, A., 2011 Summer)
- Eagleston, Holly "Non-motorized Winter Recreation Impacts to Snowmelt Erosion, Tronsen Basin, Eastern Cascades, Washington" (Lipton, J., Rubin, C., 2011 Fall)
- Fitch, Katherine "Ephiphyic Lichens as Early Indicators of Whitepark Pine Decline" (Lipton, J., 2011 Summer)
- Frank, Harold "Developing Tidal Energy in Angoon, Alask". (Huckabay, J., 2011 Summer)
- Ghazenfarpour, Haleh "Urban Wind Power Utilization: A Case Study in Ellensburg, Washington" (Huckabay, J., 2011 Spring)
- Gray, Ian "Historic Era Homesteading on the Yakima Uplands: Inventory and Evaluation of Historic Archaeological sites on the United States Army Yakima Training Center, Central Washington" (Hackenberger, S., 2011 Winter)
- Kennelly, Heather "Microarchaeology at the Sunrise Ridge Borrow Pit Site" (McCutcheon, P., 2011 Spring)
- Kreutz, Erin "Naneum Ridge State Forest: A Feasibility Study to Market Forest Carbon to Supplement Washington State Timber Losses" (Huckabay, J., 2011 Winter)
- Risdon, Edrie "Development of Sedentism on the Columbia Plateau: Building a Radiocarbon Chronology" (Hackenberger, S., 2011 Spring)
- Treser, Jared "Historic Glacier and Climate Fluctuations at Mount Adams, WA and Effects on Regional Water Supply" (Lillquist, K., 2011 Spring)
- Wagenknecht, John "Short-term Response by Two Focal Species to Dry Forest Restoration Treatments on the Wenatchee National Forest, Washington: The Macgillvray's Warbler (Oporonis tolmiei) and Cassin's Finch (Carpodacus cassinii)" (Uebelacker, M., 2011 Spring)
- Waupochick, Anthony "Sustainability on Indian forestlands: an analysis of the Menominee forest as a model for environmental resource management" (Gabriel, A., 2011 Winter)
- Wilburn, David "Overseas Chinese on the American Frontier: Assessment of Historical and Archaeological Sites in Central Washington State" (McCutcheon, P., 2011 Spring)

UNIVERSITY OF WASHINGTON

PhDs:

- Buckingham, William "Assembling the Chinese City: Production of Space and the Articulation of New Urban Spaces in Wuhan, China" (Kam Wing Chan, 2014
- Burnett, Rebecc "From Safety Net to Tightrope: New Landscapes of Welfare in the US" Vicky Lawson, 2013
- Gillespie, Kathryn "Reproducing Dairy: Embodied Animals and the Institution of Animal Agriculture (Michael Brown, 2014)
- Lopez, Patricia "Disease and Aid: 100 Years of US (de)Construction of Health Citizenship in Haiti " (Katharyne Mitchell and Matthew Sparke, 2014)
- Ramanathan, Muthatha "Repoliticizing Development: Tracing Spatial Technology in the Rural Development Landscape of South India (Lucy Jarosz, 2013])
- Weng, Guilan "Moving Towards Neoliberal(izing) Urban Space? Housing and Residential Segregation in Beijing" (Luke Bergmann, 2014)

Masters (Arts):

- Crane, Annie "Uncaring Systems and the Production of Trans* Subjectivities: Exploring Digital Spaces of Trans* Care" (Michael Brown, 2014)
- Garcia, Lila "The Revolution Might Be Tweeted: Digital Social Media, Contentious Politics and the Wendy Davis Filibuster" (Sarah Elwood, 2013)

- McKeithen, William "Governing Pet Love: 'Crazy Cat Ladies,' Cultural Discourse, and the Spatial Logics of Inter-Species Intimacies" (Michael Brown, 2014)
- Turet, Lynda "Building Transformative Place-Making: Lessons From Washington Hall" (Katharyne Mitchell, 2013)
- Valencia, Yolanda "Leyes Crueles Lugares Violentos: Mexican Women's Testimonios Along the Migration Journey" (Vicky Lawson, 2014)

WEST VIRGINIA

MARSHALL UNIVERSITY

Masters (Arts): Click, Megan, 2015 Jiao, Jialun, 2015

Masters (Science):

Kirby, Daniel, "Effective Treatment Options for Acid Mine Drainage in the Coal Region of West Virginia" (2014).

Arcadipane, Britt, "West Virginia's Low Percentage of Population With At Least A Four-Year College Education" (2014).

WISCONSIN

UNIVERSITY OF WISCONSIN, MILWAUKEE

PhDs:

- Park, Isaac "Impacts of Spatial, Environmental, and Compositional Differences on Community-Level Flowering Phenology" (Schwartz, 2014)
- Sorenson, Jeremy "Food Fight: Sharing Meals and Confronting Biopolitics in the Disciplinary City" (Bonds, 2013)
- Yu, Rong "Examining Spring and Autumn Phenology in a Temperate Deciduous Urban Woodlot" (Schwartz, 2013)

Masters (Arts):

Schuelke, Nick "Urban River Restoration and Environmental Justice: Addressing Flood Risk Along Milwaukee's Kinnickinnic River" (Holifield, 2014)

Masters (Science):

- Jackson, Angela "Landscape Ecological Analysis of Patterns Influencing Bat Activity in the Southeast Glacial Plains of WF" (Fredlund, 2013)
- Larsen, Joseph "A Re-Examination of an Air-Mass Based Approach to Detecting Structural Climate Change, 1948-2011" (Schwartz, 2014)
- Viel, Jana "Habitat Preferences of the Common Nighthawk (Chordeiles minor) in Cities and Villages in Southeastern Wisconsin" (Fredlund, 2014)

Other: Non-thesis Masters degrees:

Miller, Matthew (MS, Schwartz, 2013)

WYOMING

UNIVERSITY OF WYOMING

Masters (Arts):

- Anderson, Ryan S. "Simulating agriculture management strategies to understand soil conservation best practices in rainfed agroecosystems" (Prager, 2014)
- Bom, Upendra "Opportunities and Barriers: Toward Sustainable Recycling in Laramie, Wyoming" (Prager, 2014)
- Hannah Carilyn Gunderman "The Music Never Stopped'": Naming Businesses As A Method For Memorializing The Legacy Of The Grateful Dead" (Harty, 2014)
- Devin Lea "Mapping spatial patterns of stream power and channel change along a gravel-bed river in northern Yellowstone" (Legleiter, 2014)
- Nontapon Nongharnpitak "Land Use Planning For Preservation of Agricultural Land: A Case Study in Ang-Thong Province, Thailand" (Gribb, 2013)
- C. L. Rawlins "Notes on a bedrock channel and paleostage indicators, Northgate Canyon, North Platte River, Wyoming, USA" (Legleiter, 2014)
- Deeppan Sapkota "Private Water Vendors and Water Security in the Kathmandu Valley, Nepal" (Prager, 2014)

CANADA

ALBERTA

UNIVERSITY OF CALGARY

PhD:

- Cully, Allison "Camera Evaluation for Use in Aerial Photography on Unmanned Aerial Vehicles (Calgary)" (Moorman Brian, Nov 2013)
- Cunnings, Adrienne "Modelling riparian recruitment dynamics: dispersal and germination of riparian tree seeds" (Martin Yvonne, Nov 2013)
- Detchev, Trista "Modelling riparian recruitment dynamics: dispersal and germination of riparian tree seeds" (Miller Byron, Nov 2013)
- Eadon, John "An Examination of Counterinsurgency Warfare: 'Civic Actions' as a Tool for 'Winning' Support of the Population" (Holden William, Nov 2013)
- Gautam, Sanjiv "Assessing Snow Distribution on First-Year Sea Ice in Franklin Bay, Canada" (Yackel John, Nov 2013)
- Hassanpour Fard, Golnoush "Carbon Dynamics in Extracted Minerotrophic Peatlands: An Analysis of the Effect of Plant Biodiversity" (Strack Miriam, June 2014)
- Hoyles, Vita "A Comparison of Methods for Evaluating the Distribution of Bacillus anthracis in Northern Canada" (Alexander Shelley, Nov 2013)
- Jiang, Hong "Web-based Multimedia GIS for Blind and Visually Impaired
- Khurshid, Rizwan "Comparison of texture and polarimetric backscatter parameters from RADARSAT-2 synthetic aperture radar data over snow covered first-year sea ice" (Yackel John, Nov 2013)
- Law, Siew "Modeling white alder distribution along the South Fork Eel River in Northern California using LiDAR data" (Martin Yvonne, Nov 2013)

Willems, Brad (MA, DeSousa/Choi, 2013)

Masters (Science):

- Odell, Daniel "Using Ground-penetrating Radar and Seismic Shothole Drillers Logs to Identify Massive Ice and Taliks in the Lower Mackenzie Corridor and the Colville Hills, Northwest Territories" (Moorman Brian, June 2014)
- Okonkwo, Nonyelum Winifred "Predicting Malaria Risk in Rivers State Nigeria" (Hall-Beyer Mryka, June 2014)
- Other (please specify):
- Ouko, Evans Mark "A Comparative Policy Framework Analysis of the Impact of International Environmental Agreements and Processes on Local Community Development in Kenya" (Grant Miriam, June 2014)
- People: Exploring the Potential for Acquiring Spatial Information"(Bender Darren, Nov 2013)
- Peters, Melissa Marie "Spatial and Temporal Evolution of Snow Cover on Landfast First-Year Sea Ice" (Yackel John, June 2014)
- Peterson, Kyle "Gentrification through Public Participation? Acceptance and Resistance in Calgary's Inner Suburbs" (Miller, Byron, Nov 2013)
- Pike, Andrew "Creating a Routing Tool for Cyclists. Calgary" (Bender Darren, Nov 2013)
- Shahid, Rizwan "Integrating Spatial Analysis and System Dynamics to Model Childhood Overweight and Obesity Prevalence"(Bertazzon Stefania, June 2014)
- Skett, Sarah "The role of 'mzungu' voluntourism in schools and community development in rural Mukono, Uganda" (Grant Miriam, June 2014)
- Smith, Brent "Multi-Temporal Remote-Sensing of Rangeland Vegetation for Investigation of Fire-Related Ecology at Canadian Forces Base Suffield Alberta" (Bender Darren, Nov 2013)
- Whitehead, Kenneth "An Integrated Approach to Determining Short-Term and Long-Term Patterns of Surface Change and Flow Characteristics for a Polythermal Arctic Glacier " (Moorman Brian, Nov 2013)
- Wilson, Cody William "Multi-Use GIS Software Strategies: ArcGIS and Open Source Geoprocessing Libraries, Calgary, Alberta" (Bender Darren, June 2014)
- Wood, Jessica Suzanne "Birds, Buildings and LEED Mitigation Design at the University of Calgary Campus" (Draper Dianne, June 2014)
- Zou, Huihui "Lithologic and Mineral Mapping in the Chocolate Mountains, California Using ASTER Data and Image Processing Techniques" (Jacobson R. Dan, Nov 2013)

UNIVERSITY OF LETHBRIDGE

Masters (Arts):

Montgomery, Jenna, "Table set for Five: Perceptions of Water Governance in Alberta" (Wei Xu, 2013)

BRITISH COLOMBIA

SIMON FRASER UNIVERSITY

PhD:

- Hunt, Sarah "Witnessing the colonialscape: lighting the intimate fires of indigenous legal pluralism" (Nick Blomley / March 2014)
- Place, Jessica "Law, Property and Power: A Critical Legal Geography of Matrimonial Real Property on Reserve" (Nick Blomley / May 2014)
- Ricker, Britta "Mobile Computers for Injury Surveillance: A Multifaceted Feasibility Assessment" (Nadine Schuurman / August 2015)

Masters (Arts):

- Aiello, Daniela "Vancouver's Downtown Eastside: An ethnography of restaurateurs and neighbourhood change" (Eugene McCann / August 2014)
- Baldwin, Kelly "The role of landscape understandings, transformations and the political economy of agriculture in attracting and averting young adults from farming in British Columbia" (Peter Hall / December 2013)
- Damon, William "Spacial Tactics in Vancouver's Judicial System" (Nick Blomley / April 2014)
- Guzman Flores, Laura "Beyond the Carbon Tax: Personal Carbon Trading and British Columbia's Climate Policy" (Alex Clapp / August 2014)
- Hodson, Victoria "Place, Race and Capital: A Political Ecology of Oil and Gas Expansion in Kitimat, British Columbia" (Janet Sturgeon / April 2014)

Masters (Science):

- Hatch, Kristopher "Integrating Soft Computing, Complex Systems methods, and GIS for modeling urban land-use change" (Suzana Dragicevic / April 2014)
- Hendershot, Megan "Low Angle Dune Response to Variable Flow, Dune Translation and Crestline Dynamics in Fraser Estuary, British Columbia, Canada" (Jeremy Venditti / April 2014)
- Herrington, Tyler "Dependence of regional climate change on greenhouse gas emission pathway" (Kristen Zickfeld/November 2013)
- Tokarska, Katarzyna "The Role of Negative Carbon Dioxide Emissions in Climate System Reversability" (Kirsten Zickfeld / June 2014)

UNIVERSITY OF BRITISH COLOMBIA

PhD:

- Belcher, Oliver, "The afterlives of counterinsurgency: postcolonialism, military social science, and Afghanistan 2006-2012." (Derek Gregory, 2013-11-20)
- Collard, Rosemary, "Animal traffic : making, remaking and unmaking commodities in global live wildlife trade." (Trevor Barnes and Juanita Sundberg, 2013-12-13)
- Lynch, Nicholas Andrew "Altared places the reuse of urban churches as loft living in the post-secular and post-industrial city." (David Ley and Elvin Wyly, 2013-04-11)
- Pottie-Sherman, Yolande, "Vancouver's night markets: intercultural encounters in urban and suburban Chinatowns." (Daniel Hiebert, 2013-09-09)
- Santiago, Mark, "Space of expertise and geographies of ethics: health worker recruitment and migration from the Philippines to Canada." (Merje Kuus and David Ley, 2014-01-03)
- Siemiatycki, Elliot "Consumption city: precarious labour and capital in Vancouver, British Columbia." (Jamie Peck, 2013-06-11)
- Tse, Justin, "Religious politics in Pacific space: grounding Cantonese Protestant theologies in secular civil societies." (David Ley, 2013-12-09)

Masters (Arts):

- Barrick, Leigh Christine "Everyday experiences of national security on the Olympic Peninsula." (Juanita Sundberg, 2013-08-13)
- Collard, Juliane "Tracing knowledge and the law: the Missing Women Commission of Inquiry." (Gerry Pratt, 2013-08-15)
- Donegan, Connor McElwee "Incarceration and state terror: racial capitalism in the American South, 1865-1945." (Trevor Barnes and Jamie Peck, 2013-08-30)
- Dumoulin, Lisa, "Children, caring, and contemporary environmental politics on the Peace River." (Matthew Evenden, 2014-01-23)
- Fu, Xiao "Commercialization of university research: the case of Nanjing, China." (David Edgington, 2013-06-04)

- Grego, Caroline "Imagining a community-oriented 'national park nature': conflict, management, and conservation in the proposed South Okanagan - Lower Similkameen National Park Reserve." (Graeme Wynn, 2013-08-29)
- Johns, Samuel Gregory "Living the dream' atop Whistler Mountain: the malaise of modernity and Vancouver's leisure culture." (David Ley, 2013-08-27)
- Patchin, Paige, "Pacific[ations] : security, nonviolence, and the 'war on drugs' in Mérida, Yucatán, 2007-2012." (Derek Gregory and Juanita Sundberg, 2013-11-29)
- Walker, Samuel "Growing ideology: urban agriculture in Vancouver and Detroit." (Elvin Wyly, 2013-08-23)

Masters (Science):

- Barrick, Leigh Christine "Everyday experiences of national security on the Olympic Peninsula." (Juanita Sundberg, 2013-08-13)
- Collard, Juliane "Tracing knowledge and the law: the Missing Women Commission of Inquiry." (Gerry Pratt, 2013-08-15)
- Donegan, Connor McElwee "Incarceration and state terror: racial capitalism in the American South, 1865-1945." (Trevor Barnes and Jamie Peck, 2013-08-30)
- Dumoulin, Lisa, "Children, caring, and contemporary environmental politics on the Peace River." (Matthew Evenden, 2014-01-23)
- Fu, Xiao "Commercialization of university research: the case of Nanjing, China." (David Edgington, 2013-06-04)
- Grego, Caroline "Imagining a community-oriented 'national park nature': conflict, management, and conservation in the proposed South Okanagan - Lower Similkameen National Park Reserve." (Graeme Wynn, 2013-08-29)
- Johns, Samuel Gregory "'Living the dream' atop Whistler Mountain: the malaise of modernity and Vancouver's leisure culture." (David Ley, 2013-08-27)
- Patchin, Paige, "Pacific[ations] : security, nonviolence, and the 'war on drugs' in Mérida, Yucatán, 2007-2012." (Derek Gregory and Juanita Sundberg, 2013-11-29)
- Walker, Samuel "Growing ideology: urban agriculture in Vancouver and Detroit." (Elvin Wyly, 2013-08-23)

MANITOBA

UNIVERSITY OF MANITOBA

PhD:

- Asplin, Matthew "Cyclone Forcing of Coupled Dynamic and Thermodynamic Processes In Arctic Sea Ice, and Across the Ocean-Sea Ice-Atmosphere Interface"(David Barber, 2013)
- Anderson, Colin "Growing Food and Social Change: Rural Adaptation, Participatory Action Research and Civic Food Networks in North America" (Stephane McLachlan, 2014)
- Kelley, Trish "Linking Feeding and Reproductive Ecology in Beluga (Delphinapterus leucas) and Narwhal (Monodon monoceros)" (Steve Ferguson, 2014)
- McCance, Erin "Understanding Urban White-Tailed Deer (Odocoileusvirginianus) Movement and Related Social and Ecological Considerations for Management" (Rick Baydack, 2014)

Masters (Arts):

Alaazi, Dominic "Aboriginality, Homelessness, and Therapeutic Landscapes of Home: Mapping the Experiences of Aboriginal Housing First Participants in Winnipeg" (Jeffrey Masuda, 2013)

Masters (Science):

Pind, Meredith "An Examination of the Spatial and Temporal Variability of Seawater pCO2 Within the Canadian Arctic Archipelago and Baffin Bay During the Summer and Fall Seasons" (Tim Papakyriakou/David Barber, 2014) Beattie, Sarah "Mercury Dynamics within Natural and Experimental Sea Ice"

(Feiyue Wang, 2013)

Masters of Environment (MENV):

- Anseeuw, Carmen "Developing a Process Map for Planning, Initiating and Operating Municipal Biosolids Composting Utilization Programs in Southern Manitoba" (Rick Baydack, 2014)
- Belton, Curtis "Successes, Drivers and Barriers of ESD In Canada, England and Australia" (Stephane McLachlan, 2013)
- Dupont, Daniel "Calving Ground Habitat Selection of Boreal Woodland Caribou (Rangifer tarandus Caribou) in the Owl-Flintstone Range" (Rick Baydack, 2014)
- Hu, Chia hao (John) "Exploring Holistic Urban Sustainability from a Transformative Learning Persective: The Southwood Precinct Project" (John Sinclair, 2014)
- Swaii, Heather "As Assessment of Indoor Air Quality, Lost Work Time, and Perceived Air Quality in a Winnipeg School Division" (Rick Baydack, 2014)
- Yunusi, Dilibai "An Assessment of the Quality of Domestic Drinking Water in Kumul, Xinjiang Province, China" (Mark Hanson/Thomas Henley, 2014
- Zahariuk, Shauna "Food Insecurity Within the Island Lake First Nation Communities in Northern Manitoba, Canada" (Shirley Thompson, 2014)

Bachelors Thesis:

- Birch, Allison "Isolating Environments: A Multidisciplinary Analysis on the Social Determinations of Health in a First Nation Reservation" (J. Masuda, 2013) (B.A.)
- Cormier, Leanne' "The Vertical Transport of Biomatter in Pyronadoes and its Implications for Tornado Detection" (J. Hanesiak, 2013) (B. Sc. Hons)
- Fares-Argue, Jacqueline "The Anthropogenic Impacts on Endangered Arctic Species: Identifying the Gaps in Research and Its Implications for Conservation Management" (R. Baydack, 2013) (B.A.)
- Hung, Ida "On the Role of Dust in Climate and Weather" (R. Stewart, 2013) (B.Sc.)
- McAulay-Weber, Kyle, "Spatial and temporal Validation on Gem-Lam Vertical Profiles During Project Unstable" (J. Hanesiak, 2013) (B.Sc.)
- Smith, Hilary' "On the Trends and Variability of Precipitation over Winnipeg" (R. Stewart, 2013) (B.Sc.)
- Wideman, Trevor "Our Winnipeg? Planning, Intensification, and Policy Mobilities in Winnipeg, Canada" (J. Oakes/R/ Baydack, 2013) (B.A.)

ONTARIO

BROCK UNIVERSITY

Masters (Arts):

- Aseidu Kuffour, Oscar "Disaster Risk Reduction in the Human Security Perspective: The Case of Urban Ghana" (major research paper) (Dr. David Butz, 2014)
- Boateng, Micheal "Rethinking fiscal decentralization policies in developing economies: the case of Ghana" (thesis) (Dr. Jeff Boggs, 2014)
- Hamal, Pushpa "Rural road construction in the Global South: how does process shape outcome?" (major research paper) (Dr. David Butz, 2014)
- Wierzba, Tomasz "Transforming Downtown St. Catharines into a 'Creative Cluster' (thesis) (Dr. Mike Ripmeester, 2014)

CARLETON UNIVERSITY

PhD:

- Dingle-Robertson, Laura "Evaluating Spatial and Seasonal Variability of Wetlands in Eastern Ontario GIS" (King, Winter 2014)
- Huggins, Christopher "Seeing Like a Neoliberal State? Authoritarian High Modernism, Commercialization and Governmentality in Rwanda's Agricultural Reform" (Dalby, Rutherford, Winter 2014)
- Mirabzadeh Ardakani, Parastu "Political ecology of conservation in the 'Alagol, Ulmagol, and Ajigol' glocal wetlands, Turkmen Sahra, northeast Iran" (Mitchell, Torrance, Winter 2014)
- Pyne, Stephanie "Sound of the Drum, Energy of the Dance Making the Lake Huron Treaty Atlas the Anishinaabe Way" (Taylor, Fall 2013)

Masters (Arts):

- Byam, Amelie "Strengthening the Integration of Traditional Knowledge in Environmental Impact Assessment: An analysis of Inuit place names near Steensby Inlet, NU" (Taylor, Aporta, Fall 2013)
- Kenny, Meaghan "Exploring Karen Experiences of Urban Agriculture in Ottawa: The Importance of Place-Making, Agriculture and Cultural Identity" (Ballamingie, Spring 2014)
- Simone, Ryan "Cascading Failure in Critical Infrastructure: An Actor-Network Analysis of the 1998 Ice Storm in Ottawa" (Brklacich, Dalby, Spring 2014)

Masters (Science):

- Crawford, Anna "Ice island deterioration in the Canadian Arctic: Rates, patterns and model evaluation" (Mueller, Fall 2013)
- deMontigny, Peter "The climatic implications of lake level expansion in the Mackenzie Bison Sanctuary, Fort Providence, Northwest Territories" (Pisaric, Richardson, Winter 2014)
- Muise, Phil "The Dendroclimatic Signal in White Spruce (Picea Glauca) Ring-Widths, Central Northwest Territories" (Pisaric, Patterson, Fall 2013)
- Perrault, Joelle "Impact of lake expansion on mercury concentrations in lake sediments, Mackenzie Bison Sanctuary, Northwest Territories, Canada" (Richardson, Pisaric, Spring 2014)

MCMASTER UNVIERSITY

PhDs:

- Brodeur, Jason. "Data-driven Approaches for Sustainable Operation and Defensible Results in a Long-term, Multi-site Ecosystem Flux Measurement Program." (A. Arain, 2013)
- Dalumpines, Ron. "GIS Data for Activity Analysis and Route Choice Modelling." (D. Scott, 2014)
- Dickin, Sarah. "Assessing Vulnerability to Water-associated Disease: an Ecosystem Approach to Health." (C. Wallace, 2014)
- Doughty, Mike. "Postglacial Seismicity in Ontario-Quebec Determined Through Analysis of Deformation Structure in Lake Sediments." (C. Eyles, 2014)
- Moniruzzaman, MD. "Mobility in Aging: Travel Behaviour and Implications for Physical Activity." (A. Paez, 2014)
- Moumblow, Rebecca. "ND Isotope Mapping of Crustal Boundaries Within the Eastern Grenville and Makkovik Provinces, Southern Labrador." (A. Dickin, 2014)
- Slomka, Jessica. "Architectural Element Analysis of Glaciated Terrains." (C. Eyles, 2014)
- Tschirhart, Victoria. "Geophysical and Geological Intergration of the Northeast Thelon Basin, Nunavut." (B. Morris, 2014)

Masters (Arts):

- Gallina, Melissa. "Variations In Sense of Place Across Immigrant Status and Gender: Relationship To Air Quality Perceptions Amongst Women In Hamilton, Ontario, Canada." (A. Williams, 2014)
- Hansen, Stine. "Exploring the Prevalence and Perception of Vision Impairment and Disability Among Canada's Immigrant Population." (B. Newbold, 2014)
- Nagib, Wasan. "Toward a Therapeutic and Autism-Friendly Home Environment." (A. Williams, 2014)
- Perski, Monica. "Examining the Daily Operations and Workplace Accommodations Within a Social Enterprise for Individuals Living With Mental Illness in Ontario, Canada." (R. Wilton, 2014)

Masters (Science):

- Braden Gregory. "Developing New Paleoenvironmental Approaches for Carribbean Coastal Systems - Case Studies from Punta de Cartas and Playa Bailen, Cuba and Little Salt Spring, Florida." (E. Reinhardt, 2014)
- Hokanson, Kelly. "Influence of Hydrogeological Setting on Peatland Burn Severity." (M. Waddington, 2014)
- Hrvoic, Doug. "High-resolution Near-shore Geophysical Survey Using an Autonomous Underwater Vehicle (AUV) with Integrated Magnetometer and Side-Scan Sonar." (J. Boyce, 2014)
- Kula, Michelle. "Biometric-based Carbon Estimates and Environmental Controls Within an Age-Sequence of Temperate Forests." (A. Arain, 2014)
- Lotimer, Leslea. "Subsurface Stratigraphy and Hydrogeology of the Peterborough Drumlin Field, Southern Ontario." (C. Eyles, 2014)
- Reid, Michelle. "Biogeochemical Zonation in An Athabasca Oil Sands Composite Tailings Deposit Undergoing Reclamation Wetland Construction." (L. Warren, 2014)
- Tang, Victor. "An Automated Toolkit for Hyteograph-Hydrograph Analysis." (S. Carey, 2014)
- Trant, Janelle. "Effects of Thinning and Extreme Weather Events on Carbon Dynamics in a Temperate Coniferous Forest." (A. Arain, 2013)
- Wyman, Jillian. "Oxygen and Boron Isotope Effects in Synthetic Calcite." (S. Kim, 2014).

QUEEN'S UNIVERSITY

PhDs:

- Blair, Margaret Jean "Development of Forest Biorefining in Canada: Overcoming the Feedstock Barrier." (Warren Mabee, 2013)
- Brooks, Meghan "Effective Institutionalized Antiracism: Negotiating Backlash, Neoliberalization, and Geopolitics." (Audrey Kobayashi, 2014)
- Brual, Janette "LATER-LIFE FILIPINO IMMIGRANTS IN THE GREATER TORONTO AREA: A Case Study of Health Status and Utilization of Services." (Mark Rosenberg, 2014)
- Calvert, Kirby Edward "Geographies of Biomass and Solar Energy: Spatial Decision Support for Regional Energy Sustainability." (Warren Mabee, 2013)
- Collingwood, Adam "Modelling Biophysical Variables in the Canadian High Arctic Using Synthetic Aperture Radar Data." (Paul Treitz, 2014)
- Habib, Abdul Alim "Globalizing the Informal City: Neoliberalism and Urban Transformation in Accra, Ghana." (Beverley Mullings, 2013)
- Massey, Jennifer "Legitimating Displacement: Exploring the Blamegame of Gentrification Discourse." (Anne Godlewska and David Wilson [University of Illinois at Urbana-Champaign], 2014)
- Waldbrook, Natalie "Homelessness, Stable Housing, and Opportunities for Healthy Aging: Exploring the Relationships." (Mark Rosenberg, 2013)

- Wasiuta, Vivian Leah "Sulfur and Reactive Nitrogen Deposited in the Alpine of the Southern Canadian Rockies: Quantification and Assessment of the Main Factors Influencing Deposition." (Melissa Lafrenière and Ann-Lise Norman [University of Calgary], 2014)
- Williams, Kay-Ann "Jamaican Middle-Class Immigrants in Toronto: Habitus, Capitals and Inclusion." (Beverley Mullings, 2014)

Masters (Arts):

- Christmas, Candice Marie "Disentangling the Effects of Material and Social Deprivation on Early Childhood Development in the KFL&A Public Health Planning Area." (Mark Rosenberg, 2013)
- Currie, Liam "The Role of Canadian Municipal Open Data Initiatives: A Multi-City Evaluation." (Betsy Donald, 2013)
- Gale, Keltie "Aging, Deprivation, and Health: A 'Triple Jeopardy' Faced by the Older Population." (Mark Rosenberg, 2013)
- Harhaj, Natalia "'They Come Here Because It's a Place of Refuge': Residential Care Facilities with Cultural Affiliations." (Mark Rosenberg, 2014)
- Mager, Andrea Lauren "Rapid Condominium Growth and the Emergence of the Ultra-Luxury Condominium Market in Toronto, Canada." (Betsy Donald, 2013)

Masters (Science):

- Bassutti, Anthony "The Response of Lakes to Climate Change and Anthropogenic Activity in the North Frontenac/Addington Highlands Region, Ontario." (Scott Lamoureux, 2013)
- Favaro, Elena Angelica "Downstream Patterns and Catchment Controls on Suspended Sediment Transport in a High Artic River." (Scott Lamoureux, 2013)
- Graham, Amanda "Fate and Turnover Time of Carbon Fixed by Chemoautotropic Microbes in a Continuously Cropped Soybeen Field." (N.A. Scott, 2013)
- Holloway, Jean "Hydroclimatic and Landscape Controls over Mudboil Formation in the Canadian High Arctic." (Scott Lamoureux, 2014)
- Louiseize, Nicole "Impact of Active Layer Detachments on Seasonal Dynamics of Nitrogen Export in High Arctic Watersheds." (Melissa Lafrenière, 2014)
- Rosu, Andrei "A New Approach for Geocoding Postal Code-Based Data in Health Related Studies." (Dongmei Chen, 2014)

UNIVERSITY OF GUELPH

PhD:

Holland, Tara "Adaptation to Climatic and Socioeconomic Change in Rural Regions: The Case of the Prince Edward County Wine Sector" (B. Smit, 2014)

Masters (Arts):

- Albrecht, Cayla "Reconnection in Local Food Initiatives: Purpose, Practice, and the Calibration of Value" (J. Smithers, 2014)
- Johnson, Rylea "Wholesale Produce Auctions: Assessing their Viability in a Changing Food Economy" (E. Fraser, 2014)
- Meeker, Alexandra "Volunteer Tourism for Marine Conservation: A Force for Positive Change in Northern Belize" (N. Gray, 2014)
- Sulpizio, Isabella "Exploring Representations Of Consumers And Interactions Amongst Governance Actors In The Sustainable Seafood Movement" (J. Silver, 2014)
- Valencia Fourcans, Lidia "Representations of Women in Micro-Financing Promotional Materials: The Case of Espoir Ecuador" (R. Hawkins, 2014)
- Withers, Julia "Consuming and Constructing Place: A Case Study on Winery Development in Lake Erie North Shore" (J. Smithers, 2013)
- Wittmer, Josie "Environmental Governance, Urban Change, and Health: An Investigation of Informal Recyclers' Perspectives on Well-Being in Vancouver, BC" (K. Parizeau, 2014)

Masters (Science):

- Fuss, Colleen "Digital Elevation Model Generation and Fusion" (J. Lindsay, 2013)
- Lung, Ivana "Examining The Water Quantity And Quality Effects Of Land Management Practices In A Canadian Prairie Subwatershed Using A GIS-Based Distributed Model" (W. Yang, 2014)
- Merchant, M. Allan "Examining The Influence Of Subarctic Boreal Ground Conditions On C-Band Radarsat-2 Polsar Variables For Target Separability And The Application Of A Support Vector Machine Classifier" (A. Berg, 2014)
- Molder, Bryce "Sediment and Sediment-Assisted Nutrient Transfer in Small Agricultural Watersheds in Southwestern Ontario" (J. Cockburn, 2014)
- Roy, Swapan "Simulation of Spatial and Temporal Variability of Soil Moisture Using the Simultaneous Heat And Water (SHAW) Model: Applications to Passive Microwave Remote Sensing" (A. Berg, 2014)
- Scriver, Rebecca "Evaluation Of The Local Urban Water Budget For Estimating Groundwater Recharge Potential" (A. Berg, 2014)
- Vetta, Matthew "Examining Slope Instability Dynamics on a Small Bank Slope Along the Schoharie Creek in New York State" (J. Cockburn, 2014)
- Woodrow, Kathryn "Evaluating the Effects of DEM Properties on the Spatial and Statistical Distribution of Hydrological Surface Attributes" (J. Lindsay / A. Berg, 2014)

UNIVERSITY OF OTTOWA

PhD:

Ladd, Matthew "Reconstructing the climate of North America during the past 2,000 years using pollen data" (A. Viau, 2014)

Masters (Arts):

- Jaja, Jessica "Beyond Climate Change Theory: What Contributes to
- Local-level Adaptive Capacity in Caribbean Small Island Communities?"(J. Dawson, 2014)
- Laferrière, Kathryn "Environmental Health Risk perceptions and protective actions: A mixed-method study of new mothers in Ontario, Canada" (E. Crighton) 2014
- Liu, Ziwei "Applying a Spatio-Temporal to the study of Urban Social Landscapes in Tianjin, China" (H. Cao, 2014)
- Mezdour, Amina "Le rôle des facteurs environnementaux dans la migration internationale: Etude de cas des immigrants haitiens au Canada" (L. Veronis, 2014)
- Obokata, Reiko, "Environmental Factors and Transnational Migration: A case study with Filipino newcomers in Ottawa, Canada" (L. Veronis, 2014)
- Ritsema, Roger "Community and Economic Development in Arctic Canada (CEDAC) A qualitative Study of resource development impacts on economic and social systems in Pond Inlet, Nunavut" (J. Dawson, 2014)

Masters (Science):

- Bevington, Alexandre "Towards a TTOP-model for permafrost distribution for three areas in Yukon and northern British Columbia" (A. Lewkowicz, 2015)
- Bourgeois-Roy, Andréanne "Les dépôts coquilliers de Baie-Comeau (Québec, Canada) : Communautés d'invertébrés marins, compositions isotopiques, géochimiques et reconstruction paléoenvironnementale" (D. Lacelle, 2014)
- Brooker, Alex "Investigating changes in retrogressive way slumps in the Richardson Mountains (Northwest Territories, Canada) based on Tasseled Cap trend analysis of Landsat image stacks" (D. Lacelle), 2014
- Herdes, Emilie "Relationships between mass balance and intra-annual and interannual variations in motion of the Kaskawulsh Glacier, Yukon Territory"(L. Copland, 2014)

- Paquette, Catherine "A Geospatial Approach to Display the Hydrological Impacts of Permafrost Disturbances on the Geochemistry of Streams, Lower Peel River and Western Mackenzie Basin, Northwestern Canada" (D. Lacelle, 2014)
- Tardif, Geneviève Multivariate Analysis of Canadian Water QualityData" (K.Gajewski, 2014)

UNIVERSITY OF TORONTO

PhD:

- Akers, Joshua "Decline Industry: the Market Production of Detroit." (Jason Hackworth, 2013)
- Catungal, John Paul "For Us, By Us: Political Geographies of Race, Sexuality and Health in the Work of Ethno-Specific AIDS Service Organizations in Toronto" (Deborah Leslie & Matt Farish, 2014)
- Cooke, Jason "The Fossil Fueled Metropolis: Los Angeles and the Emergence of Oil-Based Energy in North America" (Scott Prudham & Matt Farish, 2014)
- Levkoe, Charles "Mobilizing Collaborative Networks for a Transformative Food Politics: A Case Study of Provincial Food Networks in Canada" (Sarah Wakefield, 2014)
- May, Jeffrey "Race, Gender, Youth and Urban Space: Young Men of Colour and Homelessness in the Greater Toronto Area" (Susan Ruddick & Alan Walks, 2013)
- Preston, Michael "Microbial Community Composition and Activities across Northern Peatlands" (Nathan Basiliko, 2013)
- Snyder, Marcie "Aboriginal Peoples: Mobility and Health in Urban Canada - Traversing Ideological and Geographical Boundaries" (Kathi Wilson, 2013)
- Spigel, Benjamin "The Emergence of Regional Cultures and Practices: A Comparative Study of Canadian Software Entrepreneurship" (Harald Bathelt, 2013)
- Sun, Yajun "Mixing Patterns of Discharged Ballast Water and the Implications for Biological Invasions in the Lake Huron-Erie Corridor of the Great Lakes" (Mathew Wells, 2014)
- Tam, Andrew "The Impacts of Climate Change on Potential Permafrost Distributions from the Subarctic to the High Arctic Regions in Canada" (William Gough, 2014)
- VandeBerg, Brittany "Securitizing Piracy: Development, Security and the Containment of Piracy Off the Coast of Somalia" (Rachel Silvey, 2013)
- Vitale, Patrick "Nuclear Suburbs: the Westinghouse Corporation and the Everyday Politics of the Cold War in Suburban Pittsburgh, 1937-1979" (Robert Lewis, 2013)
- Wellen, Christopher "Quantifying Urban and Agricultural Nonpoint Source Phosphorus Fluxes Using Distributed Watershed Models and Bayesian Inference" (Tenley Conway & George Arhonditsis, 2013)

Masters (Arts):

- Buitenhuis, Amy "Public-private Partnerships and Prison Expansion in Ontario: Shifts in Governance 1995-2012" (Matti Siemiatycki & Deborah Cowen, 2013)
- Cadger, Kirstie "Development Interventions and Agricultural Adaptation in a Changing Environment: a Social Network Analysis of Farmer Knowledge Transfer in Ghana" (Marney Isaac, 2014)
- Dale, Bryan "A Beautiful Picture of Chaos": La Via Campesina and the Convergence of Food Sovereignty and Climate Justice (Scott Prudham & Kundan Kumar, 2013)
- Fridman, Joel "Settlement, Food Lands and Sustainable Habitation: the Historical Development of Agricultural Policy and Urban Planning in Southern Ontario" (Harriet Friedmann, 2014)
- Lee, Gillian "Perceptions about Crime and Safety in the Region of Peel: A Qualitative Assessment of the Connections between the Social and Built Environment and Crime in Three Neighbourhoods" (Dana Wilson, 2013)

- Mukhtar, Maria "Settlement Service Providers in Peel Region Ontario: Challenges, Barriers and Opportunities in the Shadow State" (Dana Wilson & Kathi Wilson, 2013)
- Plenderleith, Lisa "Sport and the Making of World Cities: a Case Study of South Africa" (Rajyashree Reddy, 2013)
- Short, Victor "Prairie Freigeld: Alberta Social Credit and the Keynesian Frontier of Monetary Economic Though in North America, 1929-1938" (Matt Farish & Emily Gilbert, 2014)
- Skinner, Ana "Unsettling the Currency of Caring: Promoting Health and Wellness at the Frontlines of the Welfare State Withdrawal in Toronto" (Sarah Wakefield, 2013)
- Snukal, Katia "Legal Absurdities and Wartime Atrocities: Postsovereign Lawfare and the Nisour Square Massacre" (Emily Gilbert, 2013)
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- Gagliardi, Stephanie "Intraspecific Trait Plasticity in Coffee Agroforestry Systems of Costa Rica" (Marney Isaac, 2014)
- Henshaw, Jennifer "Influences of Confluences on Reach Scale Morphology of Southern Ontario Stream Channels" (Joe Desloges, 2013)
- Link, Candice "Determining Tree Water Acquisition with Stable Isotope Analysis in a Temperate Agroforestry System" (Marney Isaac, 2014)
- Mazur, Maxwell "Factors Affecting Gaseous Mercury Emissions from Soils" (Carl Mitchell, 2013)
- McGovern, Peter "East-West Asymmetry in Coastal Temperatures of Hudson Bay as a Proxy for Sea Ice" (William Gough, 2013)
- Saliola, Assunta "Object-based Image Analysis for the Delineation of Canopy Gaps and Individual Tree Crowns Using Multi-Source Data: a Case Study in Haliburton Forest, Ontario" (Yuhong He & John Caspersen, 2014)
- Wang, Ze "Sunlit Leaf Photosynthesis Rate Correlates Best with Chlorophyll Fluorescence of Terrestrial Ecosystems" (Jing Chen, 2014)

UNIVERSITY OF WATERLOO

PhD:

- Appavoo, Donna "Recognizing the role of gender and food security in type 2 diabetes nutrition education in rural southwestern Ontario" (M.L. McAllister, 2014)
- Davidson, Seanna "Transformations in Water Governance: An Examination of the Lake Simcoe Watershed" (R. de Loe, 2013)
- Gartner, Candice Marie "The Agency of Infrastructure: A Critical Acquisition Framework for Understanding Infrastructure Development within Inequitable Societies" (J. Cukier, 2014)
- Guan, Haiyan "Automated Extraction of Road Information from Mobile Laser Scanning Data" (J. Li, 2014)
- King, Joshua "Remote Sensing Observations of Tundra Snow with Ku- and X-band Radar" (R. Kelly, 2014)
- Luus, Kristina "Improving estimates of net ecosystem CO2 exchange between the Arctic land surface and the atmosphere (R. Kelly & J. Lin, 2013)
- Neff, Brian Phillip "Traps and Transformations of Grenadian Water Management" (B. Doberstein, 2013)
- Tan, Wenxia "An Examination of Sea Ice Spring and Summer Retreat in the Canadian Arctic Archipelago: 1989 to 2010" (E. LeDrew, 2013)
- Yan, Haowen "Theory of Spatial Similarity Relations and Its Applications in Automated Map Generalization" (J. Li, 2014)

Masters (Arts):

Afrin, Sadia "The influence of winter weather on high-crash days in Southern Ontario" (J. Andrey, 2013) Williams-Richards, Charlene "Jamaica's Tourism Employment: The Role of Gender" (J. Cukier, MRP, 2013)

Masters (Science):

- Ahola, Ryan "Evaluation of a Soil Radar Backscatter Model with Applicability to Radar Observations of a sub-Arctic Environment" (R. Kelly, 2013)
- Aguayo, Paula "Solar Energy Potential Analysis at Building Scale Using LiDAR and Satellite Data" (J. Li, 2013)
- Apaloo, Jotham "Thermal and Hydrological Response of Rock Glaciers to Climate Change: A Scenario Based Simulation Study" (A. Brenning, 2013)
- Azocar Sandoval, Guillermo "Modeling of Permafrost Distribution in the Semi-arid Chilean Andes (A. Brenning, 2013)
- Fu, Anqi "Urban Growth and LULC Change Dynamics Using Landsat Record of Region of Waterloo from 1984 to 2013" (J. Li, 2014)
- Gerstein, Shira "Land Cover Change and Climate on the North American Great Plains" (C. Fletcher, 2014)
- Glasbergen, Kenneth "The Effect of Coarse Gravel on Cohesive Sediment Entrapment in an Annular Flume" (M. Stone, 2014)
- Ho, Jacqueline "Toxicity and bioaccumulation of sediment-associated metals and elements from wildfire impacted streams of southern Alberta on Hyalella Azteca" (M. Stone, 2013)
- Li, Dongrong "Using GIS and Remote Sensing Techniques for Solar Panel Installation Site Selection" (S-Y. Tan, 2013)
- Li, Junzhu "Spatial Patterns of Soil Organic Carbon Distribution in Canadian Forest Regions: An Eco-region Based Exploratory Analysis" (S-Y. Tan, 2013)
- Lockyer-Cotter, James "Web GIS Tools for Crime Mapping in Toronto" (S-Y. Tan, 2013)
- Svacina, Nicolas Andreas "Evaluation of the albedo parameterization of the Canadian Lake Ice Model and MODIS albedo products during the ice cover season" (C. Duguay, 2013)
- Wells, Corey Moran "The hydrology and geochemistry of a saline spring fen peatland in the Athabasca oil sands region of Alberta" (J. Price, 2014)
- Xiang, Qing "3D Reconstruction of 138 KV Power-lines from Airborne LiDAR Data" (J. Li, 2014)

Masters of Environmental Studies (MES)

- Cheresna, Mark "An Examination of Processes based on Open Standards in Support of Service Location" (P. Deadman, 2013)
- Kraljevska, Elena "Estimated Benefits of Achieving Passivhaus and Net Zero Energy Standards in the Region of Waterloo Residential Sector and the Barriers and Drivers to Achieve Them" (P. Parker, 2014)
- Karrow, Thomas "Inventory meta mapping of pre-settlement vegetation maps in Ontario, Canada from early land surveys" (R. Suffling, MRP, 2013)
- Langlois, Mélanie "Landscape Analysis & Boundary Detection of Bog Peatlands' Transition to Mineral Land: The laggs of the eastern New Brunswick Lowlands, Canada" (J. Price, 2014)
- Melnik, Matthew "The Issues and Implications of Boundary Definitions for Cordon Pricing: Toronto, Canada, as a Case Study" (J. Andrey, 2013)
- Shang, Chen "Land Cover Change Analysis of Big Creek Conservation Area with Satellite Remote Sensing" (E. LeDrew, 2013)
- Xia, Peiyao "An Evaluation of Trend and Anomalies of Arctic Sea Ice Concentration, 1979-2006" (E. LeDrew, 2013)

UNIVERSITY OF WESTERN ONTARIO

PhD:

- Dixon, Jenna Determinants of Health Insurance Enrolment in Ghana's Upper West Region (Luginaah 09/05/2014)
- Hundey, Elizabeth Jane Nitrate sources and lake response in high elevation lakes, Uinta Mountains, Utah" (Moser 17/04/2014)

- Jelokhani Niaraki, Mohammadreza "Web 2.0-based Collaborative Multicriteria Spatial Decision Support System: A Case Study of Human-Computer Interaction Patterns" (Malczewski 17/12/2013)
- Loebach, Janet Elizabeth "Examining Children's Perception and Use of Their Neighbourhood Environments for Healthy Activity" (Gilliland 02/11/2013)
- Nyantakyi-Frimpong, Hanson Hungry Farmers: A Political Ecology of Agriculture and Food Security in Northern Ghana (Bezner Kerr 30/08/2014)
- Ross, Karen Anne Struggling to Compete: Community-Based Research on Agrarian Change in the Caribbean (Weis 27/06/2014)
- Zeng, Chuiqing Automated Building Information Extraction and Evaluation from High-resolution Remotely Sensed Data (Wang 21/05/2014)

Masters (Arts):

- Cleave, Evan "Economic Development in the Contemporary Global Environment: The Role of Place Branding as a Tool of Local Economic Development in Ontario, Canada" (Arku 21/05/2014)
- Fitzpatrick, Stephen "Examining Children's Perceptions and Use of Their Neighbourhood Built Environments: A Novel Participatory Mapping Approach" (Gilliland 20/02/2014)
- Hussey, Lucia Kafui "Analytic Network Process (ANP) for Housing Quality Evaluation: A Case Study in Ghana" (Malczewski 31/08/2014)
- McIntosh, Leanne "Examining the Influence of Environmental Opportunities and Exposures on Children's Sleep Duration" (Gilliland 21/08/2014)
- Richard, Lucie "Exploring the Association Between Commute to School Duration and Children's Physical Activity Level and Bodyweight Status" (Gilliland 25/08/2014)
- Rishworth, Andrea "Women's Navigation of Maternal Health Services in Ghana's Upper West Region in the Context of the National Health Insurance Scheme" (Luginaah 02/07/2014)

Masters (Science):

- Dyce, Daniel Roy "A sensor view model to investigate the influence of tree crowns on effective urban thermal anisotropy" (Voogt 16/07/2014)
- Mambulu, Faith Nankasa "Agricultural Interventions as a Means to Improving Food Security: Experiences of HIV/AIDS-Affected Households in Northern Malawi" (Bezner Kerr / Luginaah 28/08/2014)

WATERLOO -LAURIER GRADUATE PROGRAM

PhD:

- Appavoo, Donna "Recognizing the role of gender and food security in type 2 diabetes nutrition education in rural southwestern Ontario" (M.L. McAllister, 2014)
- Davidson, Seanna "Transformations in Water Governance: An Examination of the Lake Simcoe Watershed" (R. de Loe, 2013)
- Fresque-Baxter, Jennifer. "Water is Life: Exploring the Relationship between Place Identity, Water, and Adaptive Capacity in Fort Resolution, Northwest Territories, Canada" (D. Armitage & M. Imort, 2014)
- Gartner, Candice Marie "The Agency of Infrastructure: A Critical Acquisition Framework for Understanding Infrastructure Development within Inequitable Societies" (J. Cukier, 2014)
- Guan, Haiyan "Automated Extraction of Road Information from Mobile Laser Scanning Data" (J. Li, 2014)
- King, Joshua "Remote Sensing Observations of Tundra Snow with Ku- and X-band Radar" (R. Kelly, 2014)
- Luus, Kristina "Improving estimates of net ecosystem CO2 exchange between the Arctic land surface and the atmosphere (R. Kelly & J. Lin, 2013)

- Neff, Brian Phillip "Traps and Transformations of Grenadian Water Management" (B. Doberstein, 2013)
- Prno, Jason "Establishing a Social License to Operate Amidst Complexity: Issues and Opportunities for Canadian Mining Sector Governance" (S. Slocombe, PhD)
- Rashid, Ibrahim "Evaluation of the Soil and Water Assessment Tool (SWAT) Model Applicability in a First-Order Agricultural Watershed in Southern Ontario" (M. English, 2014)
- Tan, Wenxia "An Examination of Sea Ice Spring and Summer Retreat in the Canadian Arctic Archipelago: 1989 to 2010" (E. LeDrew, 2013)
- Yan, Haowen "Theory of Spatial Similarity Relations and Its Applications in Automated Map Generalization" (J. Li, 2014)

Masters (Arts):

- Afrin, Sadia "The influence of winter weather on high-crash days in Southern Ontario" (J. Andrey, 2013)
- Dordi, Huzan. "Fleeting Image of India Abroad: The Representation of India through Canadian Newsprint Media in the 21st Century" (M. Walton-Roberts, 2014)
- Morin, Grant "Developing an Ontario Maple Syrup Sector Profile: A Value Chain Analysis" (B. Murphy, MRP, 2014)
- Schimmelfing, Kara. "Powering up: Assessing the Growing Municipal Energy Resilience Building Efforts in North America" (S. Slocombe 2013)
- Williams-Richards, Charlene "Jamaica's Tourism Employment: The Role of Gender" (J. Cukier, MRP, 2013)

Masters (Science):

- Ahola, Ryan "Evaluation of a Soil Radar Backscatter Model with Applicability to Radar Observations of a sub-Arctic Environment" (R. Kelly, 2013)
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- Li, Junzhu "Spatial Patterns of Soil Organic Carbon Distribution in Canadian Forest Regions: An Eco-region Based Exploratory Analysis" (S-Y. Tan, 2013)
- Lockyer-Cotter, James "Web GIS Tools for Crime Mapping in Toronto" (S-Y. Tan, 2013)
- Phillips, Tahni "Characterizing and Quantifying Evapotranspiration in a Natural Saline Fen within the Western Boreal Plain, Fort McMurray, AB" (R. Petrone, 2014)
- Soltani-Pour Lazerjan, Mohammad "Moisture Controls on Regenerating and Reclaimed Aspen Forest Evapotranspiration in the Western Boreal Plain" (R. Petrone & M. English 2014)
- Svacina, Nicolas Andreas "Evaluation of the albedo parameterization of the Canadian Lake Ice Model and MODIS albedo products during the ice cover season" (C. Duguay, 2013)
- Wells, Corey Moran "The hydrology and geochemistry of a saline spring fen peatland in the Athabasca oil sands region of Alberta" (J. Price, 2014)
- Xiang, Qing "3D Reconstruction of 138 KV Power-lines from Airborne LiDAR Data" (J. Li, 2014)

Masters of Environmental Studies (MES)

- Cheresna, Mark "An Examination of Processes based on Open Standards in Support of Service Location" (P. Deadman, 2013)
- Kraljevska, Elena "Estimated Benefits of Achieving Passivhaus and Net Zero Energy Standards in the Region of Waterloo Residential Sector and the Barriers and Drivers to Achieve Them" (P. Parker, 2014)
- Karrow, Thomas "Inventory meta mapping of pre-settlement vegetation maps in Ontario, Canada from early land surveys" (R. Suffling, MRP, 2013)
- Langlois, Mélanie "Landscape Analysis & Boundary Detection of Bog Peatlands' Transition to Mineral Land: The laggs of the eastern New Brunswick Lowlands, Canada" (J. Price, 2014)
- Melnik, Matthew "The Issues and Implications of Boundary Definitions for Cordon Pricing: Toronto, Canada, as a Case Study" (J. Andrey, 2013)
- Pike, Brandon "Evaluating the Yukon's Regional Land Use Planning Framework as a Tool for Managing Cumulative Effects in the Kluane Region" (S. Slocombe, 2014)
- Qazi, Saba "Developing Climate Scenarios for Cumulative Effects Assessment: A Case Study of Southwest Yukon" (S. Slocombe, 2014)
- Shang, Chen "Land Cover Change Analysis of Big Creek Conservation Area with Satellite Remote Sensing" (E. LeDrew, 2013)
- Xia, Peiyao "An Evaluation of Trend and Anomalies of Arctic Sea Ice Concentration, 1979-2006" (E. LeDrew, 2013)

YORK UNIVERSITY

PhDs:

- Abnizova, Anna 'Hydrology, Carbon Dynamics and Hydrochemical Properties of Ponds in an Extensive Low Gradient High Arctic Wetland, Polar Bear Pass, Bathurst Island, Nunavut, Canada' (Kathy Young, 2013)
- Addie, Jean-Paul 'Mobilizing City-Regional Urbanization: The Political Economy of Transportation and the Production of the Metropolis in Chicago and Toronto' (RogerKeil, 2013)
- Bardoloi, Sudarshana 'The Political Economy of Uneven Rural Development: The Case of the Nonfarm Sector in Kerala, India ' (Raju Das, 2013)
- Mccallum, Judith 'Murle Identity in Post-Colonial South Sudan' (Jamie Scott, 2013)
- McCreary, Tyler 'New Relationships on the Northwest Frontier: Episodes in the Gitxsan and Witsuwit'en Encounter with Colonial Power' (Patricia Wood, 2013)
- Tan, Serene 'Landscape, Home, & Nation: Chinatown Identities in Urban Southeast Asia' (Lisa Drummond, 2013)

Masters (Arts):

- Carey, Jeffrey 'To What Extent a 'Green Fix'? AN Analysis of the Canadian Autoworkers' (CAW) Response to the Dual Crises of Global Climate Change and the Great Recession' (Steven Tufts, 2013)
- Chen, Ashley 'Placing Children in the Belly of Capitalism: A Historical-Geographical Materialist Investigation' (Raju Das, 2013)
- Choi, Lisa 'Suburban Pasts, Imagined: Placing Memories and Imaginaries of Home' (Alison Bain, 2013)
- Kuszczak, Alyssa 'Social Sustainability in Educational Spaces: Local, Regional and Provincial Relationships ' (Ranu Basu, 2013)
- Masse, Francis 'Wildlife, Cattle, and People in the Limpopo National Park: A More-than-human Political Ecology of Conservationinduced Displacement and Resettlement' (Roth, Lunstrum, 2013)
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Masters (Science):

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Masters of Environment (Environmental Assessment) - Internship based:

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- Annelise Grube-Cavers "The Effects of Urban Rapid Rail Transit on the Onset of Gentrification in Canadian Urban Centres."(Zachary Patterson, PhD)
- Christopher Harding "Household Activity Spaces and Neighbourhood Types: a spatial and temporal comparative analysis of the effects of clustered land use indicators on the travel behaviour of households." (Zachary Patterson, PhD)
- Guénolé Choné "The mobility space of rivers in southern Quebec: implications for river management and habitats in a context of climate changes." (Pascalel Biron, PhD)
- Jessie Smith "The Construction of Quebec's Green Economy." (Norma Rantisi, PhD)
- Julia deMontigny "Negotiating Everyday Spaces, Making Places: Queer & Trans* Youth in Montréal." (Kevin Gould, PhD and Julie Podmore, PhD)
- Naghmeh Nazar Nia "Monitoring urban sprawl in the metropolitan areas of Montreal and Quebec." (Jochen Jaeger, PhD)
- Qui Feng "A Typo-morphological Enquiry into the Evolution of Urban and Architectural Forms in the Huangpu District of Shanghai, China." (Pierre Gauthier, PhD)
- Rushdia Mehreen- "How are inner-city population densities affected by freeways?: A study of eight Canadian cities." (Craig Townsend, PhD and Jochen Jaeger, PhD)

- Shaun Weadick "Entangled Plants and Property: A Landscape of Domestic Gardens and Alleys." (Alan Nash, PhD)
- Travis Roger Moore- "Quantifying the extent of change in extreme weather events in response to global warming." (Damon Matthews, PhD)
- Ye Li "A Typo-morphological Enquiry into the Evolution of Residential Architecture and Urban Tissues of the Guangfunan area of Guangzhou, China." (Pierre Gauthier, PhD)

MCGILL UNIVERSITY

PhD:

- Bonnell, Tyler "Spatial simulations of infectious disease: environment, behaviour, and their interaction in a primate population" (Raja Sengupta, May 2014)
- Wang, Meng "The C:N:P:K stoichiometry in an ombrotrophic peatland" (Tim Moore, October 2014)
- Wood, Sylvia "Land-use legacies in shifting cultivation systems of the Peruvian Amazon: the influence of land-use and land management practices on forest fallow composition, function and rural livelihoods" (Jeanine Rhemtulla, October 2014)

Masters (Arts):

- Brandusescu, Ana "Community development crowdmapped and texted" (Renee Sieber, October 2014)
- Brandusescu, Ana (Sieber). Community development crowdmapped and texted (October 2014)
- Delisle, Sarah "The weather is like the game we play" Hmong and Yao food security and emerging livelihood vulnerabilities in the northern uplands of Vietnam" (Sarah Turner, May 2014)
- MacDonald, Melanie (Meredith). Community perception of slum upgrading initiatives in Soweto East, Kibera (Nairobi, Kenya) (October 2014)
- MacDonald, Melanie (Meredith). Community perception of slum upgrading initiatives in Soweto East, Kibera (Nairobi, Kenya) (October 2014)
- Petrasek MacDonald, Joanna "From the minds of youth: exploring Inuit youth resilience within a changing climate and applications for climate change adaptation in Nunatsiavut, Labrador, Canada" (James Ford, October 2014)
- Petrasek MacDonald, Joanna (Ford). From the minds of youth: exploring Inuit youth resilience within a changing climate and applications for climate change adaptation in Nunatsiavut, Labrador, Canada (October 2014)
- Sherman, Mya (Ford). Vulnerability and adaptive capacity of community food systems in the Peruvian Amazon: a case study from Panaillo (October 2014)
- Sherman, Mya (Ford). Vulnerability and adaptive capacity of community food systems in the Peruvian Amazon: a case study from Panaillo (October 2014)

Masters (Science):

- De Young, Allison "Nitrous oxide and methane dynamics in two Canadian peatlands" (Tim Moore, October 2014)
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- McLaughlin, Fraser "Using regional flow regime classes to identify flow anomalies in a set of Canadian rivers regulated by dams" (Michel Lapointe, May 2014)
- Svob, Sienna "The creation of a forestry relational database and assessment of aboveground biomass variability across Costa Rica using forest management data" (Margaret Kalacska, October 2014)

UNIVERSITÉ DE MONTRÉAL

Masters (Science):

- Akkari, Chérine, La co-construction des outils de la planification des pratiques agricoles entre les parties prenantes concernées comme aide à l'adaptation des agriculteurs aux CVC : le cas de la Montérégie Ouest (Québec), Christopher Bryant et Claude Marois 2013
- Amado Rohten Rodrigo Andres, La fluoration artificielle de l'eau potable au Canada : une géographie d'équité ou d'opportunité, Kathryn Furlong 2013
- Boily, Marie-Élaine, L'avenir de l'agriculture périurbaine dans la communauté métropolitaine de Montréal : le cas de Laval, Claude Marois 2013
- Brisson, Philippe, Le Plan Nord du gouvernement du Québec : analyse du design, de la planification et du positionnement stratégique des projets d'infrastructures de transport, Claude Comtois 2014
- Champagne-Gélinas, Alex, Positionnement et mise en valeur des gares de train à grande vitesse : Impacts sur la répartition modale au sein d'un corridor de transport, Claude Comtois 2013
- Choquette, Martin, Évaluation des stratégies de réhabilitation des sites contaminés dans une perspective de développement durable : proposition d'une démarche méthodologique, Pierre André 2013
- Constantineau, Simon, Distribution des éléments traces dans les compartiments de trois cultivars de saule utilisés à des fins de phytoremédiation, François Courchesne 2013
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- Pau-Corfa, Erwan, Cartographie des particules fines d'aérosol en milieu urbain par imagerie de télédétection : le cas de Montréal, François Cavayas 2013
- Payette, Fanny, Regard sur l'évapotranspiration et les flux d'énergie et leurs contrôles biophysiques pour trois sites de forêt boréale et de toundra aux Territoires du Nord-Ouest avec différents climats et types de pergélisol, Oliver Sonnentag 2014
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- Régnier-Pelletier, Myriam, Comment les demandeurs d'asile mexicains déboutés par le Canada vivent-ils la réintégration à la société mexicaine? Patricia Martin 2013
- Sliger, Michel, Régime hydrogéologique au site routier expérimental de Beaver Creek (Yukon), Daniel Fortier et Oliver Sonnentag 2013
- Tremblay, Gilbert, Séquestration de carbone atmosphérique dans la biomasse racinaire des plantations de saules, François Courchesne et Nicolas Bélanger 2013
- Verpaelst, Manuel, Mouvements de masse par solifluxion et dynamique syngénétique du pergélisol du haut arctique, île Ward Hunt, haut arctique canadien, Daniel Fortier 2014

LATIN AMERICA

ARGENTINA

INSTITUTO DE GEOGRAFÍA "ROMUALDO ARDISSONE" DE LA UNIVERSIDAD DE BUENOS AIRES

Doctorados:

Hortensia Castro. "Crónicas de desastres, tramas del riego.

Contribuciones para una historia ambiental de la Quebrada de Humahuaca" dirigida por Maria del Rosario Prieto y codirigida por Carlos Reboratti,2013.

Marina MIRAGLIA. "La historia ambiental y los procesos de construcción territorial de dos cuencas hidrográficas de la provincia de Buenos Aires (1776 y 2006)" dirigida por Claudia Natenzon,2013.

Maestrías:

Erasmo Puente Casas. "POLÍTICAS AMBIENTALES DE CONSERVACIÓN Y CONFLICTOS EN ÁREAS PROTEGIDAS: EL CASO DE LA SIERRA DE LA MACARENA (1948-2009)" dirigida por la Dra. Mariana Arzeno, 2014.

BOLIVIA

UNIVERSIDAD MAYOR DE SAN ANDRÉS

Maestrías:

- FABIO ARNALDO POMAR AVALOS. APLICACIÓN DEL MODELO UNIVERSAL DE VARIACIÓN ESPACIAL EN LA ESTIMACIÓN DE LA SALINIDAD SUPERFICIAL DEL SUELO, CASO VIACHA, ALTIPLANO NORTE.
- JULIA ELENA SILLO CONDORI. ANALISIS DE CALIDAD DE USO DE LA INFORMACION ESPACIAL EN LA CARTOGRAFIA DE TRABAJOS DE CONSULTORIA AMBIENTAL PARA ADMINISTRACIONES PUBLICAS.
- HUASCAR IGNACIO MORALES QUINTELA. ANALISIS DE LA GESTION TERRITORIAL INTEGRAL EL CASO DEL PUEBLO INDIGENA LECO DE LARECAJA.
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- RONALD STIBEN TARQUI DELGADO. LOCALIZACION OPTIMA DE SITIOS PROPUESTOS PARA LA INSTALACIÓN DE UN RELLENO SANITADIO MEDIANTE ANÁLISIS MULTICRITERIO PARA EL MUNICIPIO DE ESCOMA.
- LUIS MARCELO FLORES MEDRANO. GRADUACION POR EXCELENCIA.
- JAVIER VELASQUEZ ALAVI. ESTRUCTURACION DE UNA GEODATABASE EN EL PROCESO DE SANEAMIENTO DE LOS TERRITORIOS DE LOS PUEBLOS INDIGENAS DEL NORTE DE LA PAZ.
- DAVID RAMIRO QUISBERT MUJICA. FLUJOS DE INFORMACION GEOGRAFICA EN INSTITUCIONES PUBLICAS DEL ESTADO PLURINACIONAL DE BOLIVIA.

- ANDREA GLADIS BLANCO TORREZ Y SUSANA ESPEJO TICONA. DISEÑO DE ATLAS VIRTUAL INTERACTIVO TERRITORIOS INDIGENAS Y ORIGINARIOS EN BOLIVIA.
- JACOBO CHOQUE RIOS. ANALISIS ESPACIAL DE LOS INDICADORES SOCIODEMOGRÁFICOS DE EDUCACIÓN Y SU RELACIÓN CON LA DISTRIBUCIÓN DE LOS CENTROS EDUCATIVOS EN LA CIUDAD DE EL ALTO.
- FABIOLA ANDREA CHINO FLORES. PROPUESTA DE PLANIFICACIÓN DEL USO DEL SUELO PARA ASENTAMIENTOS HUMANOS, TIERRA FISCAL COMARAPA MUNICIPIO SAN RAFAEL, SANTA CRU.
- OLIVIA QUISPE AGUILAR Y LILIAN GRISEL PACHECO GUZMAN. DETECCION DE CAMBIOS EN LA FORMA DE RELIEVE CON IMÁGENES DE SATELITE DE ALTA RESOLUCION ESPACIAL Y FOTOGRAFIAS AEREAS EN EL BARRIO DE CALLAPA (1938-2012).
- SHARAI STHEPANNY VARGAS FLORES. IMPACTOS AMBIENTALES DERIVADOS DE LA ACTIVIDAD MINERA EN LA PARTE ALTA DEL RIO COROICO.
- ARSENIO FLORES TITO. IMPLEMENTACION DEL SERVICIO DE MAPAS VIA INTERNET APLICADA A LA INFORMACION CARTOGRAFICA DEL DEPARTAMENTO DE LA PAZ.
- ROGER LEONARDO MAGNE MANZANEDA Y JOSUE MIGUEL SILVA PACO. ESTRUCTURACION DE LA GEODATA BASE DEL SISTEMA HIDRICO TITICACA, DESAGUADERO, POOPÓ Y SALAR DE COIPASA.
- NELLY DANITZA PIZA CASTILLO Y ZULMA YHOANA PUSARI RAMOS. CATASTRO MULTIFINALITARIO EN BASE A PUNTOS DE CONTROL GNSS Y PLANIMETRIA VALIDADA PARA LA ZONA DE SAN ANTONIO NORTE DEL MUNICIPIO DE LA PAZ.
- JUAN PABLO RODRIGUEZ ESCALERA Y SERGIO ENRIQUE SANJINES FLORES. PROPUESTA DE ZONIFICACION TURISTICA DE LA REGION DEL PANTANAL BOLIVIANO COMO MODELO PARA LA PLANIFICACION TURISTICA TERRITORIAL.
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- SILVIA PAULA TORREBLANCO DAVILA Y HUGO LEONARDO FUENTES NAY. ESTIMACION DE LA TASA DE AREAS QUEMADAS (CICATRICES DE QUEMAS) EN EL DEPARTAMENTO DE PANDO PERIODO 2005-2010.

BRASIL

UNIVERSIDADE FEDERAL DO RIO DE JANEIRO

Doutorados:

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CHILE

UNIVERSIDAD ACADEMIA DE HUMANISMO CRISTIANO

Otro (por favor especifique): Pregrado:

- Crecimiento urbano insular y escasez de suelo para el dominio efectivo; caso de estudio Hanga Roa, Isla de Pascua. Arcos Linares, Juan Pablo; Garrido Pereira, Marcelo, profesor guía; Valdés Subercaseaux, Ximena, profesor guía (Universidad Academia de Humanismo Cristiano, 2014)
- La regularización de las tierras tanto rurales como urbanas es un problema a nivel global y que se da con mayor fuerza en las zonas rurales, pero también en los sectores urbanos con asentamientos irregulares.
- Territorialidades femeninas del barrio comercial de la Chimba; caso de estudio: vendedoras ambulantes de "La Vega del Mapocho, comuna de Recoleta, Región Metropolitana." Cordovez Ramírez, Francisco; Garrido Pereira, Marcelo, profesor guía; Valdés Subercaseaux, Ximena, profesor guía (Universidad Academia de Humanismo Cristiano, 2014)
- (No autorizada su publicación a solicitud del autor, disponible para préstamo en Biblioteca UAHC Sede Condell)
- Estudio comparativo, a través de una evaluación ambiental estratégica, a dos instrumentos de planificación territorial: plan maestro de Chaitén, y la modificación del plan regulador de Puerto Varassector Los Alerces de Maullín. Abeleida Corvalán, Jesús Alonso; González Quiroz, Pilar, profesor guía (Universidad Academia de Humanismo Cristiano,2014)

- Relaciones entre enfermedades respiratorias y la distribución espacial de contaminantes atmosféricos asociados al Complejo Industrial de Ventanas. *Méndez Ríos, Felipe; Rivera Hutinel, Antonio, profesor guía (Universidad Academia de Humanismo Cristiano, 2014)*
- Las transformaciones del agua desde la política hasta la espacialidad. Caso de estudio: Cajón del Maipo, Región Metropolitana. Villalobos Gálvez, Nicole Paz; Escalona Thomas, Daniela, profesor guía (Universidad Academia de Humanismo Cristiano, 2014)
- (No autorizada su publicación a solicitud del autor, disponible para préstamo en Biblioteca UAHC Sede Condell)
- Identidad barrial en zonas patrimoniales el caso del barrio Santa Lucía-Mulato Gil de Castro- Parque Forestal. Valenzuela Rojas, Camila Fernanda; Gallegos Castillo, Rocío, profesor guía; Escalona Thomas, Daniela, profesor guía(Universidad Academia de Humanismo Cristiano, 2014)
- Plan de desarrollo ecoturístico en la localidad de Caleu para contribuir en su desarrollo local. Ugarte Villanueva, Catalina Ninoska Tamara; Rivera Hutinel, Antonio, profesor guía; Pastor Castilla, Alvar, profesor guía(Universidad Academia de Humanismo Cristiano, 2014)
- Evaluación de la calidad de suelos para plan de reforestación del volcán Poike, Isla de Pascua, V Región . León Plaza, José Cristóbal; Rivera Hutinel, Antonio, profesor guía; Pastor Castilla, Alvar, profesor guía (Universidad Academia de Humanismo Cristiano, 2014)
- Impactos espaciales provocados por la extracción de arena en las playas "Las Agatas" y "La Castilla." López Muñoz, Danilo Alexander; Rivera Hutinel, Antonio, profesor guía; Pastor Castilla, Alvar, profesor guía (Universidad Academia de Humanismo Cristiano, 2014)
- Distribución oceánica de metales pesados asociados a la actividad del Complejo Industrial Ventanas en la Bahía de Quintero, V region. Valdés Quilodrán, Rodrigo Daniel; Rivera Hutinel, Antonio, profesor guía; Pastor Castilla, Alvar, profesor guía (Universidad Academia de Humanismo Cristiano, 2014)
- Paisajes de resistencia en la población Lo Hermida la llegada de las antenas de celulares. *Ibarra Riroroco, Marilyn Nicol; Gallegos Castillo, Rocío Amparo, profesor guía; Escalona Thomas, Daniela, profesor guía(Universidad Academia de Humanismo Cristiano, 2014)*
- De la organización territorial al derecho de la ciudad. Un acercamiento cualitativo a las motivaciones y producciones espaciales que generan movimientos sociales urbanos. Caso de estudio Asamblea Ciudadana "No a la autopista por Avenida La Florida." *Fernández Navarro, Hans Andrés; Gallegos Castillo, Rocío Amparo, profesor guía; Escalona Thomas, Daniela, profesor guía (Universidad Academia de Humanismo Cristiano, 2014)*
- Análisis de eficiencia en la red del Servicio de Salud Metropolitano Sur Oriente. Gutiérrez Cifuentes, Alejandro Guillermo; Rivera Hutinel, Antonio, profesor guía; Pastor Castilla, Alvar, profesor guía(Universidad Academia de Humanismo Cristiano, 2014)
- El aparecer del cuerpo y la acción política como irrupción en el espacio público. Caso de estudio Agrupación de Deudores Habitacionales, ANDHA Chile a luchar democrático. Godoy Shultz, Samuel Vicente; Gallegos Castillo, Rocío Amparo, profesor guía; Escalona Thomas, Daniela, profesor guía (Universidad Academia de Humanismo Cristiano, 2014)
- Movilidad espacial e imaginario de ciudad, en personas que se desplazan en silla de ruedas en la ciudad de Santiago. Esquivel Calderón, Marjorie Alejandra; Gallegos Castillo, Rocío Amparo, profesor guía; Escalona Thomas, Daniela, profesor guía (Universidad Academia de Humanismo Cristiano, 2014)

- Espacio público y prácticas urbanas subversivas. La transformación de la Plaza Italia a partir del significado y función del espacio. Ortega Bello, Javiera; González Quiroz, Pilar, profesor guía; Barahona Jonas, Macarena, profesor guía (Universidad Academia de Humanismo Cristiano, 2013)
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- Construcción de las representaciones de la ciudad de Santiago: paisajes en movimientO. Frías Montecinos, Daniela; González Quiroz, Pilar, profesor guía; Barahona Jonas, Macarena, profesor guía (Universidad Academia de Humanismo Cristiano, 2013)
- El lugar del espacio público. Identificación, usos y apropiación del espacio público barrial en la población Las Américas. Comuna de Colina. Améstica Barrera, Carolina; González Quiroz, Pilar, profesor guía; Barahona Jonas, Macarena, profesor guía (Universidad Academia de Humanismo Cristiano, 2013)
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COLOMBIA

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Maestrías:

- Arango Lopez, Cindia Caterine. "Minería y dinámicas de poblamiento en el altiplano de Los Osos en el siglo XVII". (Marta Herrera, 2013)
- Castillo Ardila, Angela Milena. "Los retreros y la gente del río Condoto. Minería y transformaciones sociomabientales en Chocó, 1975-2013". (Claudia Leal, 2013)
- Duica Amaya, Liliana. "Geografía de la Violencia en El Carmen de Bolívar 1990-2010."(Luis Sánchez)
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- Montoya Upegui, Laura. "En busca de sus misionados: estrategias de evangelización y catequización de las misioneras Lauritas en el occidente antioqueño (1914-1925)" (Shawn van Ausdal, 2013)
- Preciado Zapata, Bibiana Andrea. "Canalizar para industrializar: la domesticación del río Medellín en la primera mitad del siglo XX"(Marta Herrera, 2013)
- Ramirez Elizalde, Laura Astrid. "¿Irse, quedarse o llevar el territorio a cuestas? El proceso de reorganización territorial nasa después del terremoto de 1994 en Tierradentro, Cauca" (Claudia Leal, 2013)
- Vasquez Delgado, Teofilo. "Territorios, conflicto armado y política en el Caguán: 1900-2010." (Claudia Leal, 2013)
- Villamizar Santamaria, Sebastian Felipe: "Desigualdades sociales, ¿inequidades espaciales?: Análisis de la segregación sociorracial y el acceso a bienes públicos en Bogotá (2005-2013)" (Andrés Guhl, 2013)
- RUBIANO GALVIS, SEBASTIAN ENRIQUE RUBIANO GALVIS. "El oro en la selva. Minería y ordenamiento territorial en la Amazonía colombiana, Taraira y el bajo río Apaporis (1984-2014)" (Claudia Leal, 2014)
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PEREIRA SOTELO, MARÍA FERNANDA. "Maglares Costa Pacífica" (Claudia Leal, 2014).

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- Almonacid-Velosa Jheniffer. "Lógicas contemporáneas de la segregación residencial en tres casos representativos de Bogotá D.C." (Jhon Williams Montoya G., 2014).
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- Rojas, Paula Judith. "La expresión del cambio global en las variables físico-químicas del medio marino regional y su impacto en los ecosistemas marino-costeros colombianos". (José Daniel Pabón, 2013).
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- Sánchez, Diana Patricia. "Minería, territorio y territorialidad: el caso del hallazgo aurífero de "La Colosa" en el municipio de Cajamarca (Tolima-Colombia)". Tesis meritoria. (Astrid Ulloa, 2013).
- Santana, Luis Daniel. "Precariópolis y privatópolis en la periferia metropolitana. transformaciones residenciales, metropolización y globalización en Bogotá (1990-2010)" Tesis meritoria. (Jhon Williams Montoya, 2013)

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Maestría:

- Méndez Duran, Edgar. "Implementación de sistema de gestión de contenido modular drupal para publicación de un sitio informativo de la romería en Costa Rica." 2013.
- Arce Anchia, María. "Propuesta de un diseño de un SIG para los registros familiares del IMAS, de los distritos Central de Grecia, Alajuela y San Pablo de Turrubares." 2013.
- Chaves Mondragón, Alexander. "Creación De un Mapa interactivo que facilita la población del distrito de Hatillo la movilización hacia sitios de interés por medio del transporte público en forma exacta." 2013.
- Vaughan Watson, Sven Amed. "Cartografía del sistema arrecifal en el refugio de vida silvestre Gandoca Manzanillo, Limón, Costa Rica." 2013
- Vega Salas, Paul Antonio. "Modelación Hidrológica de la cuenca alta del Rio Toro, Costa Rica, Usando el Software HBV-EC, SIG y teledetección." 2013

- Romero Chávez, Raquel. "Distribución espacial y descripción de la ictiofauna de los emisores fríos de Costa Rica." 2013
- Barrientos Ortiz, Oscar. "Implementación de un SIG para el análisis de eventos extremos invernales, como un posible escenario futuro de cambio climático en Costa Rica durante el periodo 1980-2010 y 2070-2100." 2013
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- Garro Fallas, Juan Carlos. "Modelado de valores de terrenos basado en métodos de análisis espacial, cantón Santa Ana." 2013.
- Córdoba Marín, Néstor Raúl. ^cAnálisis de la accesibilidad geográfica de la población a los servicios de las sedes regionales del tribunal supremo de elecciones ubicadas en Heredia." 2013
- Análisis de la accesibilidad geográfica de la población a los servicios de las sedes regionales del tribunal supremo de elecciones ubicadas en Heredia Licenciatura:
- León Alfaro, Yazmín y Granados Martínez, Andrés Ricardo. Análisis de fragmentación del bosque en la microcuenca del río Tapezco, Zarcero, Alajuela, Costa Rica. Asesor: Dr. Gilbert Vargas Ulate. 2013.
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- Gómez Solano, Juan. Cambios en el paisaje generados por el turismo y el cultivo del chayote en el Valle de Orosi, Cartago, Costa Rica. 2013.
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- Alemán Montes, Bryan. Pérdida y fragmentación de ecosistemas boscosos en un sector de la Reserva Forestal Golfo Dulce. Puntarenas, Costa Rica 1979-2011. Asesor: MSc. Guillermo Artavia Rodríguez. 2014

ECUADOR

CENTRO PANAMERICANO DE ESTUDIOS E INVESTIGACIONES GEOGRÁFICAS, CEPEIGE

Otro (por favor especifique): TESINAS DE INVESTIGACIÓN ELABORADAS POR LOS PARTICIPANTES A LOS CURSOS INTERNACIONALES DICTADOS POR EL CEPEIGE:

- MANRIQUEZ TIRADO HERMANN FERNANDO. "Riesgo de Deslizamientos en la Costa Chilena: Pichidangui – Pichicuy". (Marín Cambranis Rafael Humberto, 2014
- PAZ TENORIO JORGE ANTONIO. "Deslizamientos Urbanos en el Sur de Tuxtla Gutiérrez, Chiapas". (Carreño Collatupa Raúl, 2014)

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- TOMAS PILO MÓNICA LETICIA. "Elaboración de Cartografía de Riesgo de Caída de Bloques en Escenarios de Ocupación Intermitente, Mediante Sistemas de Información Geográfica. Sierra La Barrosa, Partido de Balcarce, República Argentina". (Moncada Rigoberto y Hiromitsu Yamagishi, 2014)
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- ZULUAGA CORREA JUAN PABLO. "Infraestructura Sensible a Deslizamientos, Corregimiento Río Blanco-Municipio de Manizales". (Moncada Rigoberto y Hiromitsu Yamagishi, 2014)
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MEXICO

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Doctorados en Geografía, UNAM:

- Aguilar, Yameli. "Modelo conceptual y cartográfico de la vulnerabilidad a la contaminación de las aguas subterráneas en karst tropical con un enfoque geopedológico y uso de árboles de decisión" (Francisco Bautista, 2014).
- Corona, Nestor. "Evaluación de vulnerabilidad a Tsunamis en Coyutlán, Colima" (Maria Teresa Ramirez, 2013).
- Espinoza, Fabricio. (2014) "Precariedad urbana y política de vivienda social en la ciudad de Morelia". (Claudio Garibay y Antonio Vieyra, 2014).
- Kieffer, Maxime. "Análisis de las condiciones de un territorio para la integración del turismo rural comunitario. Una aproximación a la investigación-acción en el Bajo Balsas, Michoacán". (Ana Burgos, 2014).
- Muñiz, Arturo. "Procesos de remoción en masa en el sector occidental de la Sierra Norte de Chiapas: Evaluación del factor antropogénico". (Víctor Hernández, 2014).
- Ramírez, Luís. "Evaluación de la heterogeneidad de los paisajes físico-geográficos de Michoacán." (Ángel Priego, 2013).
- Reyes, Miriam. "Territorio y Migración Internacional: Una aproximación teórico-analítica a la relación movilidad y apropiación simbólico-perceptiva del espacio. El caso de San
- Jerónimo Purhenchécuaro y Woodburn, Oregón". (Oliver Kozlarek, 2014).Sánchez, Mónica. "La interrelación funcional en la periferia regional de Morelia" (Antonio Vieyra, 2013).
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- Álvarez, María Guadalupe. "Evaluación espacio-temporal de los cambios de cobertura y uso del terreno en los fragmentos del bosque mesófilo de montaña en el estado de Michoacán". (Manuel Mendoza, 2013).

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- Dobler, Carlos. "Fragmentación y distribución potencial del bosque mesófilo de montaña de Michoacán México: estudio para establecer sitios prioritarios a conservar" (Manuel Mendoza y Jean Francois Mas, 2013).
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- Falcón, Oswaldo. "Análisis comparativo de los patrones de cambio en la cobertura del suelo de dos regiones mexicanas, como respuesta a las políticas ambientales". (Jean FrancoisMas, 2014).
- González, Jaime. "Modelación espacial del potencial de captura de carbono en los bosques de Quercus de la Cuenca del Lago de Cuitzeo, Michoacán". (Adrián Ghilardi, 2013).
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- Osorio, Laura. "Análisis y modelación de los procesos de deforestación en la cuenca del Río Coyuquilla, Guerrero. (Jean Francois Mas, 2013)
- Paniagua, Ignacio. "Sistema de información geográfica en portal web, como apoyo en el manejo local de recursos naturales de la reserva de la biosfera Mariposa Monarca.". (Isabel Ramírez, 2013).
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- Ramirez, Paulina. "Evaluación de pérdidas de carbono en la Reserva de la Biosfera Sierra de Huautla" (Margaret Skutsch, 2014)
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- Segundo, Itzi. "El uso del suelo en geoformas de origen fluvial en valles de la sierra costa de Michoacán" (Gerardo Bocco, 2014)
- Velasco, Wildrido. "Evaluación del estado del medio ambiente de Michoacán a partir de la tipología físico-geográfica regional". (Manuel Bollo, 2014).
- Villaseñor, Casael. "Dinámicas de pobreza en el periurbano de Morelia, el caso de Tarímbaro, Michoacán". (Antonio Vieyra y Yadira Mendez, 2014)
- Vizcaíno, María José. "La percepción de los actores locales sobre los bienes y serviciosambientales: retos y oportunidades ante el cambioclimático". (Manuel Bollo, 2013).

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Doctorados:

Sandoval Granados, José Luis, "Efectos del crecimiento urbano sobre el sistema ambiental en la región Paso del Norte" (Dr. Erick Sánchez Flores, 2014).

Maestrías:

Cabriales Esparza, Fátima del Carmen. "Estructura urbana y evolución de los centros de empleo terciario, oportunidades para la planificación de Ciudad Juárez, Chihuahua (2004-2009)". (Dr. Vladimir Hernández Hernández, 2004)

- Espino Padilla, Julio César. "Evaluación de los riesgos de contaminación del agua subterránea en zonas periurbanas de Ciudad Juárez, Chihuahua, México". (Dr. Alfredo Granados Olivas, 2014)
- Landa Rivera, Frida. "La medición del ambiente peatonal, una propuesta para vecindarios en Ciudad Juárez, Chihuahua 2013-2014". (Dr. Vladimir Hernández Hernández, 2014)
- Rodríguez Alvarado, Lidia Berenice. "Consecuencias sociales del abandono de viviendas en el suroriente de Ciudad Juárez, 2013-2014". (Dr. Javier Chávez, 2014)
- Torres Macías, Sergio. "Cambios de uso de suelo y riesgo por inundación fluvial en la zona poniente de Ciudad Juárez, Chih. Propuestas de planificación para su control". (Dr. Erick Sánchez Flores, 2014)

Licenciatura:

- Ojeda Ramírez, Luis Ángel. "Evolución espacio temporal del nicho ecológico de PICEA CHIHUAHUANA. Una caracterización mediante modelos con base en el algoritmo de máxima entropía, métricas de ecología del paisaje y el Índice de la Diferencia Normalizada de la vegetación". (Dra. Maria Elena Torres Olave, 2014)
- Medina Enríquez, Ramiro Jose. "Análisis de la evolución temporal de la actividad vegetal en áreas de manglar (1990-2010): Deltas de los ríos Yaqui y Mayo (Sonora), y Rio Fuerte (Sinaloa), México". (Dr. Luis Carlos Alatorre Cejudo, 2014)
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- Servín Corpus, Yesenia. "Delimitación de áreas potenciales para el cultivo de Naranja (Citrus sinensis) en el Estado de Chihuahua mediante el método de máxima entropía". (Dra. Maria Elena Torres Olave, 2014)
- Villescas Olivas, Lizbeth. "Cambio de la cubierta vegetal dentro del área de distribución actual de la tortuga Mapimì (Gopherus flavomarginatus)". (Dra Maria Elena Torres Olave, 2014)
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- Moreno Robles, Nydia Edith. "Estudio de factibilidad de la implementación de línea morada en Cd. Cuauhtémoc, Chihuahua, utilizando los Sistemas de Información Geográfica, SIG'S". (Mtro. Hugo Luis Rojas Villalobos, 2014)
- González Aragón, Emmanuel. "Ordenamiento territorial comunitario para el aprovechamiento hidrológico en Colonia Cusihuiriachi". (Dr. Luis Carlos Bravo Peña, 2014)
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- García Peña, Ana Karen. "Cartografías de variables climáticas de la región central de Chihuahua: una serie temporal 2000-2011 de las estaciones climatológicas de UNIFRUT". (Dr. Luis Carlos Alatorre Cejudo, 2014)
- Erives Beltrán, Vladimir. "Estimación de zonas con probabilidad a incendio forestal en las ANP Tutuaca y Papigochic: Una Exploracion mediante regresion logistica". (Dr. Luis Carlos Bravo Peña, 2014) (2014)

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Maestría en Análisis Espacial y Geoinformática:

- Alpízar Manjarrez, César. "Análisis espacial para la ubicación, diseño y ampliación de la red automática de monitoreo atmosférico del gobierno del Estado de México". (Dr. Delfino Madrigal Uribe, 2013)
- Estrada Bastida, Enrique. "Diseño y desarrollo de un sistema para el análisis espacial a través del cálculo de índices por el método de componentes principales y su clasificación con el teorema de Dalenius y Hodges". (Dr. Edel Gilberto Cadena Vargas , 2013).
- García Hinojosa, Iván. "Modelo para el análisis multidimensional de la pobreza" (Dr. Juan Campos Alanís, 2013).
- García Pérez, Roberto. "Evaluación y propuesta de localización de equipamiento público de salud, en el municipio de Temoaya, México". (Mtro. Leonardo Alfonso Ramos Corona, 2013).
- Huerta Noyola, Marciano. "Análisis de permeabilidad en el campo geotérmico los humeros Puebla, con un radioisótopo natural y sus correlaciones geofísicas en un sistema de información geográfica". (Dr. Noel Bonfilio Pineda Jaimes, 2013).
- Izquierdo Peralta, Francisco Alejandro. "Análisis de mercado y locacional de estructuras racionalizadas de comercio global de fast food en la ciudad de Toluca con SIG" (Dr. Rodrigo Huitrón Rodríguez, 2013).
- León González, Araceli. "Análisis de la degradación del paisaje en el volcán Jocotitlán, desde la perspectiva morfoedáfica" (Dr. Luis Miguel Espinosa Rodríguez, 2013)
- Mejía Mata, María Xóchitl. "Propuesta metodológica para zonificar proceso de vertientes y vulnerabilidad" (Dr. Luis Miguel Espinosa Rodríguez, 2013).
- Albarrán Camacho, Enrique. "Sistema geográfico de gestión de información de puentes en el Estado de México". (Mtro. Luís Ricardo Manzano Solís, 2014).
- Reyes López, Héctor Alonso. "Observatorio geoinformático poblacional de la migración internacional de México hacia Estados Unidos y su representación espacial 2000-2010" (Dr. José Francisco Monroy Gaytán, 2014).
- Martínez Martínez, José Luis Dr. "Análisis espacial del impacto del programa de ahorro y subsidio para la vivienda en el estado de México 2009 2012" (Fernando Carreto Bernal, 2014).
- Sanabria Santana, Néstor. "Análisis espacial de los resultados de la prueba ENLACE en el área metropolitana de Toluca (AMT), 2006 y 2011" (Dr. Bonifacio Pérez Alcántara, 2014).
- Villarreal Hernández, Erik. "Análisis espacial de la distribución biogeográfica, de árboles y arbustos medicinales en el valle de Malinalco, México" (Dr. Jesús Gastón Gutiérrez Cedillo, 2014).
- Avalos Ortiz, Denisse Roxana . "Análisis espacial de subsidencias por el abatimiento del acuífero a partir de imágenes multiespectrales y el comparativo de dos técnicas inSAR. Estudio de caso: Cuenca alta del río Lerma". (Dra. Norma Angélica Dávalos Hernández, 2014).
- Pérez García, Héctor "Análisis espacial de asentamientos prehispánicos del sur de la huaxteca. Álamo-Temapache, Veracruz" (Dr. Héctor Víctor Cabadas Báez, 2014).
- Reyna Sáenz María Del Rocío. "Diseño y aplicación del índice de desarrollo educativo en el Estado de México, en ambiente de SIG" (Dr. Bonifacio Pérez Alcántara, 2014).
- Reyna Zavala María Sanjuana. "Análisis espacial de la percepción social por inundación de la zona metropolitana en San Luis Potosí – Soledad de Graciano Sánchez, México" (Dra. Brisa Violeta Carrasco Gallegos, 2014).
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Ilisagvik College, Alaska** University of Alaska Southeast

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Mesa Community College

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Arkansas State University

- * University of Arkansas, Fayetteville
- * University of Central Arkansas

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American River College Bakersfield College Cabrillo College California State University, Dominguez Hills California State University, East Bay California State University, Fresno California State University, Los Angeles California State University, San Marcos Canada College Cerritos College Chaffey College City College of San Francisco College of Alameda College of the Desert Columbia College Contra Costa College Cypress College De Anza College Diablo Valley College East Los Angeles College Foothill College Fresno City College Fullerton College Glendale Community College Grossmont College Humboldt State University Irvine Valley College Laney College Las Positas College Los Angeles City College Los Angeles Pierce College Los Angeles Southwest College Los Angeles Valley College Merritt College Miracosta College Mission College

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1953-19545891197081552514144925111954-1955496130626116251414444481955-195553411765112932161433461956-195757412569915626182452471957-1958730119849156281844779561958-19597751289031522918143388511960-1961789150939165281934773501961-19629101571.06721230242544581962-19639581641.1222344002745774611961-19629101571.06721230242544581962-19639581641.1222344002745774611961-19641.0612351.206246600306625671961-19682.0515732.62446188549942961961-19682.6167223.3384689556312041241969-1972.9458023.747524113637140521451970-19713.289946 <th>1952-1953</th> <th>533</th> <th>114</th> <th>647</th> <th>158</th> <th>27</th> <th>185</th> <th>36</th> <th>3</th> <th>39</th>	1952-1953	533	114	647	158	27	185	36	3	39
1954-195549613062611625141444481955-1956534117651129321614333461957-195873011984915626182452471957-1958730119849156281844790561958-1959775128903152291814338511959-196085811597217729206644681961-19629101571.06721230242544611961-19629101571.06721230242544611961-19629101.571.06721230242544611961-19629101.571.06721230242544611961-19641.0612351.29624660306625701965-19661.5294372.16339661746375479196-19671.7264372.1633966746375472196-19682.0515732.624461885499429422196-19692.6468023.7452411363714052145196-19712.946802<	1953-1954	589	119	708	155	25	141	49	2	51
1955-195653411765112932161433461956-1957574125699156261824452471957-1958730119849156281844779561958-1950775128903152291814338511959-1960858115972177292066444681960-1961789150939165281934773501961-19629101571,06721230242544681962-19639581641,122234400274574611963-19641,0612351,2962466003066225701965-19661,5294051,93430961370526581966-19671,7264372,163396674637541241969-19702,9458023,74752411363714051451970-19713,2809284,167528121649147171641971-19733,2809284,208667142809211162271973-19743,2809464,231618145763199182171974-19753,616<	1954-1955	496	130	626	116	25	141	44	4	48
1956-1957 574 125 699 156 26 182 45 2 471 1957-1958 730 119 849 156 28 184 47 9 56 1958-1950 775 128 903 152 29 181 43 8 51 1959-1960 858 115 972 177 29 206 644 4 68 1960-1961 789 150 939 165 28 193 477 3 50 1961-1962 910 157 1,067 212 30 242 54 4 58 1961-1962 1,306 291 1,296 244 40 274 57 4 67 1964-1965 1,306 291 1,597 307 488 549 94 2 96 1967-1968 2,051 573 2,624 461 888 563 120	1955-1956	534	117	651	129	32	161	43	3	46
1957-1958 730 119 849 156 28 184 47 9 56 1958-1950 775 128 903 152 29 181 433 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 1,122 234 400 274 57 4 61 1964-1965 1,306 291 1,597 307 48 355 65 58 1965-1966 1,529 405 1,934 309 67 463 75 4 79 1967-1968 2,051 573 2,624 461 88 549 94 2	1956-1957	574	125	699	156	26	182	45	2	47
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 61 1962-1963 958 164 1,122 234 400 274 57 4 61 1961-1962 1,306 291 1,597 307 48 355 65 5 70 1966-1967 1,726 437 2,163 309 61 370 52 6 58 1967-1968 2,051 573 2,624 461 88 549 94 2 96 1967-1968 2,616 722 3,338 468 95 563 120	1957-1958	730	119	849	156	28	184	47	9	56
1959-1960 858 115 972 177 29 206 64 4 68 1906-1961 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 67 463 142 96 1968-1969 2.616 722 3.338 468 95 563 120 4 <th>1958-1959</th> <th>775</th> <th>128</th> <th>903</th> <th>152</th> <th>29</th> <th>181</th> <th>43</th> <th>8</th> <th>51</th>	1958-1959	775	128	903	152	29	181	43	8	51
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 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 3.38 468 95 563 120 12	1959-1960	858	115	972	177	29	206	64	4	68
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 1,974 307 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	1960-1961	789	150	939	165	28	193	47	3	50
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 1,934 309 617 463 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 3,280 928 4,208 667 142 809 211 16 227 1971-1972 3,016 899 3,950 589 132 721 <th>1961-1962</th> <th>910</th> <th>157</th> <th>1,067</th> <th>212</th> <th>30</th> <th>242</th> <th>54</th> <th>4</th> <th>58</th>	1961-1962	910	157	1,067	212	30	242	54	4	58
1963-19641,0612351,29624660306625671964-19651,3062911,59730748355655701965-19661,5294051,93430961370526581966-19671,7264372,16339667463754791967-19682,0515732,62446188549942961968-19692,6167223,3384689556312041241969-19702,9458023,74752411363714051451970-19713,2988694,167528121649147171641971-19723,4169104,326672114786191122031972-19733,2809284,208667142809211162271973-19743,2859464,231618145763199132121974-19753,0518993,950589132721199132121974-19752,6009443,574444177621114221361976-19772,6009443,573444177621114221361978-19782,6431,0363,7194421575791191913	1962-1963	958	164	1,122	234	40	274	57	4	61
1964-19651,3062911,59730748355655701965-19661,5294051,934309613705266581966-19671,7264372,16339667463754791967-19682,0515732,62446188549942961968-19692,6167223,3384689556312041241969-19702,9458023,74752411363714051451970-19713,2988694,167528121649147171641971-19723,4169104,326672114786191122031972-19733,2809284,208667142809211162271973-19743,2859464,231618145763199182171974-19753,0518993,950589132721199132121975-19762,7809533,733489176665147211681976-19772,6039943,5945021886901362571611977-19782,6831,0363,71944221575791991381978-19792,5161,0613,57744417762111422136<	1963-1964	1,061	235	1,296	246	60	306	62	5	67
1965-19661,5294051,934309613705266581966-19671,7264372,16339667463754791967-19682,0515732,62446188549942961968-19692,6167223,3384689556312041241969-19702,9458023,74752411363714051451970-19713,2988694,167528121649147171641971-19723,4169104,326672114786191122031972-19733,2809284,208667142809211162271973-19743,2859464,231618145763199132121973-19753,0518993,950589132721199132121975-19762,7809533,733489176665147211681976-19772,6009943,594502188690136251611971-19782,6831,0363,719492156648128301581978-19792,5161,0613,577444177621114221361979-19802,3441,0993,443422157579119	1964-1965	1,306	291	1,597	307	48	355	65	5	70
1966-19671,7264372,16339667463754791967-19682,0515732,624461888549942961968-19692,6167223,3384689556312041241969-19702,9458023,74752411363714051451970-19713,2988694,167528121649147171641971-19723,4169104,326672114786191122031972-19733,2809284,208667142809211162271973-19743,2859464,231618145763199182171974-19753,0518993,950589132721199132121975-19762,7809533,733489176665147211681976-19772,6009943,594502188690136251611971-19782,6831,0363,719492156648128301581978-19792,5161,0613,577444177621114221361979-19802,3441,0993,443422157579119191381980-19812,1841,0893,27341015256295 <th>1965-1966</th> <th>1,529</th> <th>405</th> <th>1,934</th> <th>309</th> <th>61</th> <th>370</th> <th>52</th> <th>6</th> <th>58</th>	1965-1966	1,529	405	1,934	309	61	370	52	6	58
1967-19682,0515732,62446188549942961968-19692,6167223,3384689556312041241969-19702,9458023,74752411363714051451970-19713,2988694,167528121649147171641971-19723,4169104,326672114786191122031972-19733,2809284,208667142809211162271973-19743,2859464,231618145763199182121974-19753,0518993,950589132721199132121975-19762,7809533,733489176665147211681976-19772,6009943,5945021886901362551611977-19782,6831,0363,719492156648128301581978-19792,5161,0613,577444177621114221361979-19802,3441,0993,443422157579119191381980-19812,1841,0893,27341015256295241191981-19822,3661,0793,4453931605531	1966-1967	1,726	437	2,163	396	67	463	75	4	79
1968-19692,6167223,3384689556312041241969-19702,9458023,74752411363714051451970-19713,2988694,167528121649147171641971-19723,4169104,326672114786191122031972-19733,2809284,208667142809211162271973-19743,2859464,231618145763199182171974-19753,0518993,950589132721199132121975-19762,7809533,733489176665147211681976-19772,6009943,594502188690136251611977-19782,6831,0363,719492156648128301581978-19792,5161,0613,577444177621114221361979-19802,3441,0993,443422157579119191381980-19812,1841,0893,27341015256295241191981-19822,3661,0793,445393160553101221231981-19842,1751,0203,195406177583	1967-1968	2,051	573	2,624	461	88	549	94	2	96
1969-19702,9458023,74752411363714051451970-19713,2988694,167528121649147171641971-19723,4169104,326672114786191122031972-19733,2809284,208667142809211162271973-19743,2859464,231618145763199182171974-19753,0518993,950589132721199132121975-19762,7809533,733489176665147211681976-19772,6009943,594502188690136251611977-19782,6831,0363,719492156648128301581978-19792,5161,0613,577444177621114221361979-19802,3441,0993,443422157579119191381980-19812,1841,0893,27341015256295241191981-19822,3661,0793,445393160553101221231982-19832,2341,1073,31438319057388361241983-19842,1751,0203,105360194554 </th <th>1968-1969</th> <th>2,616</th> <th>722</th> <th>3,338</th> <th>468</th> <th>95</th> <th>563</th> <th>120</th> <th>4</th> <th>124</th>	1968-1969	2,616	722	3,338	468	95	563	120	4	124
1970-19713,2988694,167528121649147171641971-19723,4169104,326672114786191122031972-19733,2809284,208667142809211162271973-19743,2859464,231618145763199182171974-19753,0518993,950589132721199132121975-19762,7809533,733489176665147211681976-19772,6009943,594502188690136251611977-19782,6831,0363,719492156648128301581978-19792,5161,0613,577444177621114221361979-19802,3441,0993,443422157579119191381980-19812,1841,0893,27341015256295241191981-19822,3661,0793,445393160553101221231982-19832,2341,1073,31438319057388361241983-19842,1751,0203,105360194554100311311986-19872,1249313,055360194554<	1969-1970	2,945	802	3,747	524	113	637	140	5	145
1971-19723,4169104,326672114786191122031972-19733,2809284,208667142809211162271973-19743,2859464,231618145763199182171974-19753,0518993,950589132721199132121975-19762,7809533,733489176665147211681976-19772,6009943,594502188690136251611977-19782,6831,0363,719492156648128301581978-19792,5161,0613,577444177621114221361979-19802,3441,0993,443422157579119191381980-19812,1841,0893,27341015256295241191981-19822,3661,0793,445393160553101221231982-19832,2341,1073,34138319057388361241983-19842,1751,0203,19540617758395251201984-19852,1001,0003,100380182562103311341985-19862,1299273,056352212564	1970-1971	3,298	869	4,167	528	121	649	147	17	164
1972-19733,2809284,208667142809211162271973-19743,2859464,231618145763199182171974-19753,0518993,950589132721199132121975-19762,7809533,733489176665147211681976-19772,6009943,594502188690136251611977-19782,6831,0363,719492156648128301581978-19792,5161,0613,577444177621114221361978-19802,3441,0993,443422157579119191381980-19812,1841,0893,27341015256295241191981-19822,3661,0793,445393160553101221231982-19832,2341,1073,34138319057388361241983-19842,1751,0203,19540617758395251201984-19852,1001,0003,100380182562103311341985-19862,1299273,05635221256490411311986-19872,1168973,013369179548<	1971-1972	3,416	910	4,326	672	114	786	191	12	203
1973-19743,2859464,231618145763199182171974-19753,0518993,950589132721199132121975-19762,7809533,733489176665147211681976-19772,6009943,594502188690136251611977-19782,6831,0363,719492156648128301581978-19792,5161,0613,577444177621114221361979-19802,3441,0993,443422157579119191381980-19812,1841,0893,27341015256295241191981-19822,3661,0793,445393160553101221231982-19832,2341,1073,34138319057388361241983-19842,1751,0203,19540617758395251201984-19852,1001,0003,005360194554100311311985-19862,1299273,05635221256490411311986-19872,1168973,01336917954894271211989-19902,2299813,210350205555 </th <th>1972-1973</th> <th>3,280</th> <th>928</th> <th>4,208</th> <th>667</th> <th>142</th> <th>809</th> <th>211</th> <th>16</th> <th>227</th>	1972-1973	3,280	928	4,208	667	142	809	211	16	227
1974-19753,0518993,950589132721199132121975-19762,7809533,733489176665147211681976-19772,6009943,594502188690136251611977-19782,6831,0363,719492156648128301581978-19792,5161,0613,577444177621114221361979-19802,3441,0993,443422157579119191381980-19812,1841,0893,27341015256295241191981-19822,3661,0793,445393160553101221231982-19832,2341,1073,34138319057388361241983-19842,1751,0203,19540617758395251201984-19852,1001,0003,100380182562103311341985-19862,1299273,05635221256490411311986-19872,1249313,055360194554100311311987-19882,0489002,94836221057299361351988-19892,1168973,013369179548 </th <th>1973-1974</th> <th>3,285</th> <th>946</th> <th>4,231</th> <th>618</th> <th>145</th> <th>763</th> <th>199</th> <th>18</th> <th>217</th>	1973-1974	3,285	946	4,231	618	145	763	199	18	217
1975-19762,7809533,733489176665147211681976-19772,6009943,594502188690136251611977-19782,6831,0363,719492156648128301581978-19792,5161,0613,577444177621114221361979-19802,3441,0993,443422157579119191381980-19812,1841,0893,27341015256295241191981-19822,3661,0793,445393160553101221231982-19832,2341,1073,34138319057388361241983-19842,1751,0203,19540617758395251201984-19852,1001,0003,100380182562103311341985-19862,1299273,05635221256490411311986-19872,1249313,055360194554100311311987-19882,0489002,94836221057299361351988-19892,1168973,01336917954894271211989-19902,2299813,210350205555 <th>1974-1975</th> <th>3,051</th> <th>899</th> <th>3,950</th> <th>589</th> <th>132</th> <th>721</th> <th>199</th> <th>13</th> <th>212</th>	1974-1975	3,051	899	3,950	589	132	721	199	13	212
1976-19772,6009943,594502188690136251611977-19782,6831,0363,719492156648128301581978-19792,5161,0613,577444177621114221361979-19802,3441,0993,443422157579119191381980-19812,1841,0893,27341015256295241191981-19822,3661,0793,445393160553101221231982-19832,2341,1073,34138319057388361241983-19842,1751,0203,19540617758395251201984-19852,1001,0003,100380182562103311341985-19862,1299273,05635221256490411311986-19872,1249313,055360194554100311311987-19882,0489002,94836221057299361351988-19892,1168973,01336917954894271211989-19902,2299813,21035020555510937146	1975-1976	2,780	953	3,733	489	176	665	147	21	168
1977-19782,6851,0363,719492156648128301581978-19792,5161,0613,577444177621114221361979-19802,3441,0993,443422157579119191381980-19812,1841,0893,27341015256295241191981-19822,3661,0793,445393160553101221231982-19832,2341,1073,34138319057388361241983-19842,1751,0203,19540617758395251201984-19852,1001,0003,100380182562103311341985-19862,1299273,05635221256490411311986-19872,1249313,055360194554100311311987-19882,0489002,94836221057299361351988-19892,1168973,01336917954894271211989-19902,2299813,21035020555510937146	1976-1977	2,600	994	3,594	502	188	690	136	25	161
1978-19792,5161,0615,5774444177621114221361979-19802,3441,0993,443422157579119191381980-19812,1841,0893,27341015256295241191981-19822,3661,0793,445393160553101221231982-19832,2341,1073,34138319057388361241983-19842,1751,0203,19540617758395251201984-19852,1001,0003,100380182562103311341985-19862,1299273,05635221256490411311986-19872,1249313,055360194554100311311987-19882,0489002,94836221057299361351988-19892,1168973,01336917954894271211989-19902,2299813,21035020555510937146	1977-1978	2,683	1,036	3,/19	492	156	648	128	30	158
1979-19802,3441,0993,443422157579119191381980-19812,1841,0893,27341015256295241191981-19822,3661,0793,445393160553101221231982-19832,2341,1073,34138319057388361241983-19842,1751,0203,19540617758395251201984-19852,1001,0003,100380182562103311341985-19862,1299273,05635221256490411311986-19872,1249313,055360194554100311311987-19882,0489002,94836221057299361351988-19892,1168973,01336917954894271211989-19902,2299813,21035020555510937146	19/8-19/9	2,510	1,001	3,577	444	1//	621 570	114	10	130
1930-19312,1641,0893,27341013230293241191981-19822,3661,0793,445393160553101221231982-19832,2341,1073,34138319057388361241983-19842,1751,0203,19540617758395251201984-19852,1001,0003,100380182562103311341985-19862,1299273,05635221256490411311986-19872,1249313,055360194554100311311987-19882,0489002,94836221057299361351988-19892,1168973,01336917954894271211989-19902,2299813,21035020555510937146	1979-1900	2,544	1,099	2 272	422	157	562	05	24	130
1981-19822,3001,0793,443393100533101221231982-19832,2341,1073,34138319057388361241983-19842,1751,0203,19540617758395251201984-19852,1001,0003,100380182562103311341985-19862,1299273,05635221256490411311986-19872,1249313,055360194554100311311987-19882,0489002,94836221057299361351988-19892,1168973,01336917954894271211989-19902,2299813,21035020555510937146	1900-1901	2,104	1,009	3,275	303	152	553	101	24	119
1982-19832,2.541,1073,5413651965756656101983-19842,1751,0203,19540617758395251201984-19852,1001,0003,100380182562103311341985-19862,1299273,05635221256490411311986-19872,1249313,055360194554100311311987-19882,0489002,94836221057299361351988-19892,1168973,01336917954894271211989-19902,2299813,21035020555510937146	1901-1902	2,300	1,079	3 3 4 1	393	100	573	88	36	123
1985-1984 2,113 1,020 3,103 400 111 363 93 23 120 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	1902-1903	2,234	1,107	3,341	406	170	583	00	25	124
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	1905-1904	2,175	1,020	3,195	380	182	562	103	31	120
1985-1980 2,127 3,050 352 212 304 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	1904-1905	2,100	927	3,100	352	212	564	90	41	134
1980-1987 2,124 991 3,003 360 194 534 100 51 151 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	1086-1087	2,12)	931	3,050	360	194	554	100	31	131
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	1987.1988	2,124	900	2.948	362	210	572	90	36	131
1989-1990 2,229 981 3,210 350 205 555 109 37 146	1988-1989	2,040	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	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	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	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	1993-1994	3,011	1,438	4,449	481	242	723	105	36	141

Geography Degrees Conferred in the United States 1947-1948 to 2012-2013

	BA/BS			MA/MS		PhD			
	М	F	Total	М	F	Total	М	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	1490	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

Source: The Integrated Postsecondary Education Data System of the National Center for Education Statistics.

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