



The Association of American Geographers Spatial Analysis and Modeling Specialty Group Newsletter

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FROM THE CHAIR

Dear SAM Members,

The 2013 AAG Annual Meeting is coming soon, and SAM has sponsored a total of 88 sessions in a variety of topics with substantial theoretical contribution or practical/policy importance! In particular, we look forward to a few transitions or exciting events in Los Angeles.

First, current vice chair Fang Qiu, board member Changjoo Kim, and student representative Daniel Miller Runfola have come to the end of their term—we thank them sincerely for their wonderful service to the SAM community! Also congratulations to the three newly elected officers: vice chair Tony Grubestic from Drexel University, board member Jennifer A. Miller from the University of Texas at Austin, and student representative Jing Gao from University of Wisconsin! We look forward to working with you all to continue our excellence in service to the SAM community. During the Spatial Analysis and Modeling Specialty Group Business Meeting that is scheduled on Wednesday, 4/10/2013, from 8:00 PM - 9:00 PM in Santa Barbara A, Westin, Lobby Level, we will have opportunities to introduce these new SAM officers and say thank-you to those officers stepping down.

The two sessions for John Odland Award (SAM Student Paper Competition) are scheduled on Wednesday, 4/10/2013, from 2:40 PM - 4:20 PM (session I) and 4:40 PM - 6:20 PM (session II) in Santa Barbara A, Westin, Lobby Level. I would like to thank SAM board member Joni Downs for her dedication and the judges for their hard work. Please attend at least part of the paper presentations to support our student members!

The Spatial Analysis and Modeling Plenary Lecture and Geographical Analysis Reception will be held on Thursday, 4/11/2013, from 4:40 PM - 6:20 PM in San Gabriel B, Westin, Lobby. Our Plenary Speaker Dr. Morton E. O'Kelly from The Ohio State University will present his lecture in the title of *Hub Location: A Geographical Analysis*. You are welcome to attend the lecture.

The SAM board has agreed in principle to establish SAM Outstanding Service Award to recognize SAM members who have contributed to the specialty group through outstanding service. We will discuss and vote on this during the SAM board meeting. The tentative agenda of SAM board meeting will be posted through the SAM email list later. I would like to thank all of you for your support to the SAM group, and look forward to seeing you all in Los Angeles!

Best regards,

Li An

Department of Geography, San Diego State University



Plenary Lecture and Geographical Analysis Reception

Time: April 11, 2013 from 4:40 PM – 6:20 PM (Thursday)

Location: San Gabriel B, Westin, Lobby Level

Sponsored by

Spatial Analysis and Modeling Specialty Group of the AAG
Department of Geography, The Ohio State University
Geographical Analysis

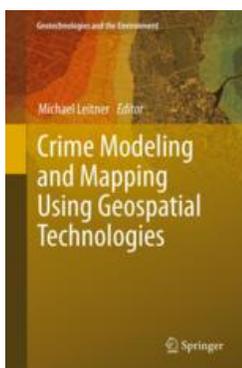
Speaker

Dr. Morton E. O’Kelly
The Ohio State University

Hub Location: A Geographical Analysis

About the Speaker: Dr. O’Kelly is a professor of the Department of Geography at The Ohio State University. He works on transport/network analysis, location theory, and spatial analysis and modeling with a specific emphasis on spatial interaction modeling. His research interests include the applications of network analysis to specific accessibility problems, especially in the study of hub network, urban transportation, and Internet accessibility. He has more than 90 scholarly publications including his two internationally recognized books, *Geography of Transportation* (1996) and *Spatial Interaction Models: Formulations and Applications* (1989). His research has been recognized by various fellowship and awards including Edward L. Ullman Award (1998), Warren G. Nystrom Award (1982), SBC Faculty Fellow (2003-2004), and Ameritech Faculty Fellow (1997-1999). Dr. O’Kelly has served to more than 10 scientific journals as editor, associate editor, and editorial board member. He also had been a chair of the Department of Geography and Associate Dean of the College of Social and Behavioral Sciences, and is currently the director of the Center for Urban and Regional Analysis (CURA) at The Ohio State University. Dr. O’Kelly’s research epitomizes the mission of SAM.

NOTEWORTHY



Michael Leitner published a new edited book: *Crime Modeling and Mapping using Geospatial Technologies*.

The research and application of geospatial technologies for studying crime began in the 1980s resulting from advancement in computing hardware and software

technology, the desktop computer, Geographic Information Systems (GIS), and other analytical and mapping software. In 1997, the NIJ again played a crucial role in the development of spatial crime modeling and mapping by establishing the Crime Mapping Research Center (CMRC), now called

Mapping and Analysis of Public Safety (MAPS).

This program supports research into spatial aspects of crime, spatial data analysis, mapping and analysis for evaluating programs and policy, as well as development of mapping, data sharing, and spatial analysis tools.

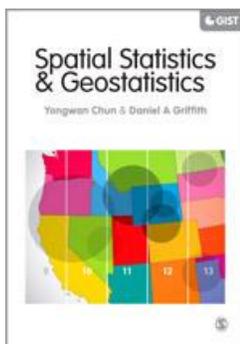
The 18 chapters in this book address fundamental spatial problems, such as the modifiable areal unit problem (MAUP) or the identification of valid boundaries of drug market activities. Chapters with a spatial analysis focus discuss sex offender residential movement patterns, exploring both spatial and temporal variations in violent crime at the street level, crime hot spot detection, and important research into the criminals’ journey-to-crime travel. Crime modeling chapters explore, among other things, the relationship between dynamic fine scale environments and criminal activities, the influence of spatial contagion and

neighborhood socioeconomic character on drug offense juvenile delinquency and recidivism, the simulation of changes in property crime as a response to increased foreclosure rates, or the relationship between methamphetamine lab seizures and county characteristics. Chapters with a focus on crime mapping discuss the applicability of the bivariate mapping technique for comparing actual campus crime with participants' self-reported cognitive fear of crime, the practicality of using time geography within a crime mapping context, and a data mining and visual analytics approach, called VIS-STAMP, to analyze crime data. The final two chapters, devoted to applications and implementations, report on a successful partnership between university researchers and practitioners to first identify and solve community problems across multiple law enforcement jurisdictions and second to implement a geospatial data infrastructure to enable the seamless integration of data from different sources, platforms, and systems.

The editor of this book, Michael Leitner, has almost thirty years of research and teaching experience in the field of Geographic Information Science (GISc). He is a professor of geography at the Louisiana State University in Baton Rouge and a faculty member of the Doctoral College "GIScience" at the University of Salzburg. He has co-authored two books, co-edited two journal volumes, and published about 30 articles in refereed journals. He is the current editor of *Cartography and Geographic Information Science* (CaGIS). His main research interests are in the geographies of crime and health and geo-spatial privacy concerns in GISc.

Publisher's page:

<http://www.springer.com/book/978-94-007-4996-2>



Yongwan Chun and Daniel A. Griffith published a book: *Spatial Statistics and Geostatistics*.

Spatial Statistics and Geostatistics is the definitive text on spatial statistics. Its focus is on spatial statistics as a distinct form of statistical analysis and it includes computer components for

ArcGIS, R, SAS, and WinBUGS. The teaching and learning objective of the text is to illustrate the use of basic spatial statistics and geostatistics, as well as

the spatial filtering techniques used in all the relevant programs and software.

The text is a systematic overview of the canonical spatial statistical and geostatistical methods. It explains and demonstrates methods and techniques in spatial sampling; spatial autocorrelation; spatial composition (heterogeneity, homogeneity) and configuration (contiguity), spatially adjusted regression and related spatial econometrics; local statistics: hot and cold spots; geostatistics and related techniques in measuring spatial variance and co-variance; and methods for spatial interpolation in two-dimensions. A concluding section discusses advanced topics in spatial statistics: these include Bayesian methods, the Monte Carlo simulation, and error and uncertainty.

Fully explanatory, *Spatial Statistics and Geostatistics* uses boxed computer code, diagrams, illustrations; and includes further readings. Case study and exemplary materials and data sets are also included.

Publisher's page:

<http://www.sagepub.com/books/Book236769>

NEWS

Dr. Richard Church (UCSB) recently received the 2012 Lifetime Achievement in Location Analysis Award from INFORMS. The award was presented at the ISOLDE XII held in Japan this past summer (<http://www.ms.nanzan-u.ac.jp/uor/isolde/>). The below photo was taken from the award ceremony:



Atsuo Suzuki (Nanzan University), Richard Church, and Carla Church [Courtesy of Antonio Medrano (UCSB)].

JOBS

Redlands, California, 92373.

The University of Redlands is seeking a forward-thinking **Director of Spatial Studies**. Reporting to the Vice President for Academic Affairs, the Director of Spatial Studies provides leadership, coordination, and support for spatial curriculum and research at the University of Redlands and for outreach to communities, businesses, and professional organizations. Requirements include an academic and professional background and a Ph.D. in GIS, geography, environmental studies, and/or other fields. Please view the full position announcement at www.redlands.edu/offices-directories/human-resources/jobs.aspx. To apply, submit application materials to apply@redlands.edu.

Founded in 1907, the University of Redlands is a private liberal arts and sciences university, consistently ranked among the best universities in the west. The city of Redlands boasts small-town charm, a commitment to education at all levels, a community of service to others, environmental preservation and sustainability, historic preservation, and a passion for the arts. Redlands is located halfway between Los Angeles and Palm Springs in the shadow of Southern California's highest peaks.

Review of applicant materials will begin on February 11, 2013. E.O.E.

Miami, Florida, 33101.

The Department of Geography and Regional Studies at the University of Miami has an opportunity for a **Postdoctoral Associate** to work under the direction of Dr. Douglas Fuller. The postdoc will collaborate with scientists from University of Miami (UM) and various research institutes and universities based in the Middle East-North Africa (MENA) region. He/she will apply remote sensing and GIS techniques to monitor and model regional environmental change related to irrigation practices and other land surface changes in MENA that influence disease vectors. Primary responsibilities will involve developing study designs, analyzing time series of vegetation indices derived from satellite data sets, writing scientific papers, and collaborating on ecological modeling studies.

Duties include: Compile and analyze multitemporal and multi-resolution satellite data sets; Integrate data derived from GIS and remote sensing with spatial-

ecological models; Develop, maintain, edit, and document project databases and analyze data using statistical methods; Prepare results for peer-reviewed publications, co-author peer-reviewed papers, as well as prepare manuscripts as first author.

Hays, Kansas, 67601.

Fort Hays State University Department of Geosciences invites applications for an **Assistant Professor** of Geography. Responsibilities include teaching undergraduate and graduate courses, advising students, student recruitment, research and service. PhD required (ABD considered). Starting August 2013. For additional details visit: www.fhsu.edu/geo or www.fhsu.edu/positions/
APPLY: Send letter of application, resume, copy of graduate transcripts, statement of teaching and research interests, names and contact information for three professional references, vita status (if applicable) and, if available, evidence of teaching effectiveness to geosciences@fhsu.edu or mail to:

Department of Geosciences
Fort Hays State University
600 Park Street
Hays, KS 67601

Attn: Search Committee

Fort Hays State University is an EOE. Final candidate will have consented to and successfully completed a criminal background check

Ann Arbor, Michigan, 48109.

The School of Natural Resources and Environment (SNRE) at the University of Michigan invites individuals to apply for the position of **LEO Lecturer I**. SNRE's mission is to contribute to the protection of the Earth's resources and the achievement of a sustainable society. The successful applicant(s) will be expected to teach one or both courses to our graduate students during the Fall 2013 semester.

NRE 531 "Principles of GIS" is a four credit course to be offered in Fall term 2013. The course involves a 1.5 hrs lecture and a two hour lab. The aim of the course is to provide a firm understanding of the conceptual and technical issues that affect the use of geographic information for research and a variety of planning and management applications. Topics include maps and projections, raster and vector data structures, database design and construction, and spatial analysis based on spatial proximity, overlay, neighborhoods, networks, terrain, and modeling. The course will have three hours of lecture and two-hour

laboratory sections each week. Weekly laboratory sections dovetail with concepts in lecture and will center on analysis of real-world problems and data using ArcGIS v10. In-class examples and laboratory problems should focus on natural resource, environmental, and ecological issues and experiments.

NRE 543 "Environmental Spatial Data Analysis" is a three credit course also to be offered in Fall term 2013. The course includes two hours of discussion on state-of-the-art research and applications of various spatial analysis tools and techniques, and two hours of laboratory sections each week. Class topics should include important spatial data concepts and definitions, geovisualization and analysis, spatial transformation and interpolation, first and second order point-pattern analysis, geostatistics (variograms, kriging, and trend surface analysis), spatial autocorrelation and local statistics, geographically weighted regressions, spatial lag regressions, analysis of residuals, and error analysis. Laboratory exercises explore these various approaches using a number of GIS-based techniques within ArcGIS v10, GeoDa, R, and other appropriate software.

The Lecturer will be responsible for overall course organization and content, examinations, assignments, exercises, and laboratory content. For the "Principles of GIS" course, the Lecturer will supervise one to two (depending on enrollment) graduate student instructors (GSIs) who will instruct the weekly laboratory sections. For the "Environmental Spatial Data Analysis" course, the Lecturer will instruct both the lab and lecture components.

For each course, a PhD degree in geography, natural resources, ecology, or environmental science with an emphasis in GIS, or a closely related field is required to be completed by August 30, 2013. At least one year of postdoctoral or teaching experience at the college/university level is expected.

Review of applicants will begin on April 10, 2013. To apply, submit a letter of application explaining your qualifications and teaching philosophy, a current CV, and three letters of recommendation to:

c/o Jennifer Knauf
School of Natural Resources and Environment
University of Michigan
440 Church Street
Ann Arbor, MI 48109-1041

East Lansing, Michigan, 48824.

The Department of Geography (geo.msu.edu) and the Environmental Science and Public Policy Program (espp.msu.edu) at Michigan State University invite applications for a tenure track appointment at the rank of **Assistant / Associate Professor** in the area of Medical / Health Geography. The prospective joint appointment is available August 2013. We seek an outstanding candidate in the area of international health and infectious diseases who will enhance our growing reputation in Medical / Health Geography. The applicant's primary research interests should include topics on waterborne infectious diseases, preferably with an international perspective and informed by the consequences of climate change. Successful applicants also will have evidence of expertise in either epidemiological methods or health policy. We especially welcome applicants who can teach some combination of quantitative or qualitative methods, spatial modeling, or geotechnologies. The use of these tools in teaching and research is expected.

This position is part of MSU's Global Water Initiative (water.msu.edu), an effort to mobilize research expertise across our campus to address the world's most compelling water issues. With over 100 faculty members already working in water-related disciplines, the university has expertise spanning academic units within the natural, social, and engineering sciences. Over the next few years, the MSU Global Water Initiative will coordinate recruitment of 16 new faculty researchers across the disciplinary spectrum. New hires will collaborate with current faculty to enhance disciplinary expertise, strengthen linkages across disciplines, and create new advances in water science, technology, and policy.

Candidates must be committed to both undergraduate and graduate education and must display evidence of excellence in research. Regardless of rank, all candidates must demonstrate a funding plan or related strategy, and candidates to be considered at Associate Professor should have existing or recent extramural funding. A Ph.D. in Geography or related field is required by the date of appointment. All applications should be accompanied by curriculum vitae, statement of interest, examples of published research, and names (only) of three references. Please include a list of grants received (including funding amounts) and sponsored research as part of your vita. Questions may be directed to Dr. Joe Messina, Chair of the

Search Committee (jpm@msu.edu). All applications must be submitted through the MSU Applicant Page website at <https://jobs.msu.edu> posting 7491.

Review of applications will begin on April 26, 2013 and will continue until the position is filled.

MSU is an affirmative action, equal-opportunity employer. MSU is committed to achieving excellence through a diverse workforce and inclusive culture that encourages all people to reach their full potential. The University actively encourages applications and/or nominations of women, persons of color, veterans and persons with disabilities.

Mount Pleasant, Michigan, 48859.

The Department of Geography at Central Michigan University invites applications for a Post-Doctoral Teaching and Research Fellowship in Geography, with specialization in Geographic Information Science effective August, 2013. The appointment is for up to 3 years. The Post-Doctoral Fellow will work closely with regular faculty for mentoring in teaching and research. Responsibilities for this appointment will include teaching 2 courses per semester, during the academic year, and working as a research associate with the Center for Geographic Information Science at CMU.

This is intended to be a 12-month appointment with duties as follows: 50% teaching, 30% research during the fall/spring academic year and 80% research during the summer. The intention is to encourage and allow the person to earn additional compensation through external grants during the appointment.

Successful candidates will have a strong background in Geographic Information Science with an ability to teach introductory and advanced courses in GIS, Spatial Statistics, and Cartography; a Ph.D. in Geography at time of appointment; demonstrated effective communication skills. Candidates with previous teaching experience and demonstrated ability securing and completing externally funded research projects preferred.

The department offers a B.S. and B.A. (major and minor) in Geography and M.S. in Geographic Information Sciences as well as Geography minors and majors for teacher education students. CMU has a strong commitment to undergraduate instruction.

Typical class sizes for GISci courses range from 15-40 students. Geographic and GISci research and teaching computing facilities are state-of-the-art and include two GIS teaching labs with industry-standard software and a newly renovated Center for GISci. To learn more about the department, visit the departmental website

http://www.cmich.edu/academics/sci_tech/Geography/Pages/default.aspx

Screening will begin April 1, 2013 and continue until the position is filled. You must submit an on-line application in order to be considered as an applicant for this position
<https://www.jobs.cmich.edu>

For enquiries, please contact David Patton, Department Chair, at pattod1d@cmich.edu or 989 774-2798.

Raleigh, North Carolina. Full Professor – Geospatial Analytics Faculty Excellence Position.

The Geospatial Analytics Program at NC State University is implementing a major expansion in our research and graduate instruction program. As part of the University wide Chancellor's Faculty Excellence Program (<http://workthatmatters.ncsu.edu/>) we are recruiting for 3 new positions in any combination of advanced remote sensing, geospatial analytics, and geospatial digital visualization. These flexible rank tenure track slots will be attached the University Center for Earth Observation and will join the 25 member interdisciplinary graduate faculty in Geospatial Information Sciences (<http://gis.ncsu.edu/>).

The position and application procedures are described in detail at:
<https://jobs.ncsu.edu/postings/16360>.

Review of applications will begin in the second week of March 2013 and the interview process for the College of Natural Resources senior position will begin at the end of March. Applications for the other 2 positions will begin the review process at the end of March with a planned interview schedule in mid to late April.

Raleigh, North Carolina. NC State Department of Computer Science. Associate/Assistant Professor – Geospatial Analytics Faculty Excellence Position.

1) leading a vigorous spatial computing research group, which will require strong evidence scholarly impact, such as publications in quality journals and securing significant external funding; 2) mentoring outstanding graduate students and post-docs; and 3) developing and expanding collaborative research initiatives with internal and external partners that grow the domain of the university geospatial science and program.

The NCSU Computer Science Department is one of the largest and oldest in the country. It is part of NCSU's College of Engineering, which has recently received significant increases in private and public funding, faculty positions, and facilities that will assist the Department in achieving its goals. The department's research expenditures and recognition are growing steadily. For example, we have one of the largest concentrations in the country of prestigious NSF Early Career Award winners (total of 21). Founded in 1887, North Carolina State University is a land-grant institution distinguished by its exceptional quality of research, teaching, extension, and public service. Located in Raleigh, North Carolina, NC State is the largest university in the state, with more than 34,000 students and 8,000 faculty and staff. National rankings consistently rate Raleigh and its surrounding region among the five best places in the country to live and work, with a highly educated workforce, moderate weather, reasonable cost of living, and a welcoming environment. A collaborative, supportive environment for business and innovation and research collaborations with area universities and the Research Triangle Park are compelling reasons for relocation to the area. Our faculty regularly engage in teaching and research activities with the vibrant North Carolina games industry, including over 40 games companies ranging from industry leaders like Electronic Arts, Epic Games and Ubisoft to serious games studios like Lockheed Martin's Virtual Worlds Lab and Virtual Heroes, Inc.

In addition, the hired candidate will have the opportunity to participate in a new geospatial research team with the two other Geospatial Analytics hires, as well as to collaborate with other the other 30+ new Chancellor's Faculty currently being recruited. This is in addition to the 25+ current GIS faculty that are spread among 15 of the University's colleges and departments. The position will be supported by not only lab space in computer science, but also the Center for Earth Observation's

entirely new 2,000 square foot geo-visualization laboratory and newly renovated 1,800 square foot experimental teaching facility. The Center research program has active initiatives in climate modeling, 3D visualization, tangible modeling and geospatial intelligence.

Raleigh, North Carolina. NC State Department of Marine Earth and Atmospheric Sciences.
Assistant/ Associate Professor – Geospatial Analytics Faculty Excellence Position.

The position duties include: 1) establishing an externally-funded cutting edge research program with an emphasis on new technologies in remote sensing and RS data analytics (for example, lidar mapping, hyperspectral imaging, sensors mounted on UAV's); 2) teaching upper undergraduate and graduate Remote Sensing and GIST courses and mentoring MEAS and GIST graduate students; 3) developing and expanding collaborative research initiatives with internal and external partners that grow the domain of the University's Geospatial Analytics program and contribute to the mission of the MEAS department.

The anticipated time distribution among these duties is 45% research, 45% teaching and mentoring, and 10% service.

Preferred experience, skills, training/education:
 Experience with modern 3D remote sensing technologies, such as lidar, IFSARE/InSAR, GPS Geodesy, 3D photogrammetry;
 Background in geospatial intelligence or hyperspectral imaging;
 Familiarity with development or applications of open source geospatial software;
 Experience with UAV and robotic mapping technologies.

The position and application procedures are described in detail at
<https://jobs.ncsu.edu/postings/19853>

Norman, Oklahoma, 73019

The Department of Geography and Environmental Sustainability at the University of Oklahoma (<http://geography.ou.edu/>) has a **one year replacement faculty position** (open rank) beginning on August 15, 2013 and ending on May 15, 2014. Salary will be commensurate with qualifications.

The Department of Geography and Environmental Sustainability is an actively growing and dynamic department. Over the past three years, we have doubled the number of our undergraduate majors to over 140 and increased the number of permanent faculty positions by 50%. The department offers undergraduate and graduate degrees in Geography, GIS, and Environmental Sustainability. The College of Atmospheric and Geographic Sciences hosts the Southern Climate Science Center as well as the Center for Spatial Analysis. The department is home to the Oklahoma Wind Power Initiative, the Land Use Land Cover Institute, the Working Group on the Geographies of Race and Representation of the Americas, and the Environmental Verification and Analysis Center. These centers and many others on the Norman campus offer tremendous opportunities for collaborative research.

Application Process: Interested persons should submit a curriculum vita and letter of interest explaining how their qualifications fit the job description, as well as the names and contact information of three referees. Please submit all materials electronically, preferably in PDF. All application information and inquiries should be directed to:

Dr. Aondover Tarhule, Chair
Department of Geography and Environmental Sustainability
100 E. Boyd Street, Sarkeys Energy Center, Rm 510
University of Oklahoma
Norman, Oklahoma, 73019-1007
Email: atarhule@ou.edu

Deadline: Review of applications will begin April 2, 2013 and continue until the position is filled.

The University of Oklahoma. Established in 1890, the University of Oklahoma is a comprehensive public research university offering a wide array of undergraduate, graduate and professional programs and extensive continuing education and public service programs. Its 2000 acre Norman Campus houses 16 colleges with approximately 1300 faculty members serving more than 26,000 students.

The University of Oklahoma is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

College Station, Texas, 77843.

The Department of Geography at Texas A&M University invites applications for a **GIST laboratory manager** (August 2013) to facilitate GIST instruction, student and faculty research, and applied projects and outreach activities. Qualified candidates will have a Masters degree in Geography, Computer Science, Earth Science, or a related discipline, expertise in remote sensing and geographic information systems (GIS), computer programming, database administration, and be able to effectively communicate and manage laboratory personnel, equipment, and servers. The department is involved in multidisciplinary research and projects in remote sensing and GIS, spatial database development, health and urban systems, biogeography, climate change, geomorphology, hydrology and cryosphere applications. We seek individuals who are capable of: 1) overseeing day-to-day operations; 2) addressing data storage, management and access issues; 3) facilitating student and faculty projects; 4) analyzing geospatial data using remote sensing and GIS software; 5) developing software to facilitate technology transfer; and 6) can assist in technical and applied problem solving as well as teaching short courses.

The application deadline is April 1, 2013. Apply online at: tamujobs.tamu.edu/applicants/Central?quickFind=202963. The application package should include a complete application, a cover letter that addresses the applicant's background, expertise and interests. Special emphasis should be placed on GIST expertise including remote sensing and GIS, computer programming, database administration, and communication and project management skills. A CV and two letters of recommendation are also requested. Incomplete applications will not be considered. Review of applications will begin immediately, and applications will continue to be accepted until April 1, 2013. Texas A&M University is committed to diversity and equality in education and employment, and women and members of under-represented groups are strongly encouraged to apply.

St. Catharines, Ontario, L2S 3A1, Canada.

The Department of Geography invites applications for a probationary tenure-track appointment in Geomatics, subject to final budgetary approval, at the rank of Lecturer or Assistant Professor, effective July 1, 2013. We are seeking a specialist in Geographical Information Systems (GIS) with a background in Physical Geography. The successful

candidate is expected to participate in the concentration in Geomatics and engage in research that compliments current faculty interests.

Candidates should hold a Ph.D. in Geography or a related discipline, or be close to completion, and must demonstrate strong research potential and successful teaching. Applicants must submit a curriculum vitae; a statement outlining teaching and research interests, including evidence of research potential and successful teaching; a writing sample; and a statement of teaching philosophy to: Dr. Phillip Gordon Mackintosh, Chair, Department of Geography, Brock University, St. Catharines, Ontario, Canada L2S 3A1. Electronic submissions, either by Fax (905-688-6369) or Email (vwagg@brocku.ca) must be followed by a hard copy. Applicants must also arrange for three academic reference letters to be submitted directly by the referees.

While the deadline for application submission is April 1, 2013, review of applications will continue until the position is filled. All applicants will receive confirmation of receipt of their application, but only short-listed applicants will be contacted for interviews.

All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority. Brock University is actively committed to diversity and the principles of Employment Equity and invites applications from all qualified candidates. Women, Aboriginal peoples, members of visible minorities, and people with disabilities are especially encouraged to apply and to voluntarily self identify as a member of a designated group as part of their application. Candidates who wish to be considered as a member of one or more designated groups should fill out the Self-Identification Form available at http://www.brocku.ca/webfm_send/1095 and include the completed form with their application. More information on Brock University can be found on the University's website www.brocku.ca.

Guangzhou, China.

Guangzhou, China. School of Geography and Planning, Sun Yat-sen University. We invite applications for 20 faculty positions in the areas of Physical and Environmental Geography, Human Geography and Regional Science, GIScience and Remote Sensing, Water Resources and Hydrology,

and Urban Planning. These positions will be appointed at the rank of **full professor, associate professor or lecturer** (equivalent of **assistant professor**). We seek applicants with expertise in the aforementioned areas, with a Ph.D. in geography or related fields. Successful candidates must demonstrate strong evidence of quality publications, funded research and effective teaching. Salaries and startup packages are highly competitive and commensurate with experience and qualification.

Our Geography program is among top 8 in China. More information about School of Geography and Planning is available at <http://gp.sysu.edu.cn/>. Evaluation of applications will begin May 1, 2013, and the search will remain open until all positions are filled. Please contact Professor Shenjing He for further information.

Auckland, New Zealand.

Landcare Research is recruiting an experienced and motivated geographer or economist to conduct and lead research in natural resource economics and/or economic geography, focusing on multi-sector modelling and analysis.

We are specifically seeking a researcher with strong technical and analytical skills in spatially explicit modelling, computable general equilibrium modelling, partial equilibrium modelling, and/or other computational approaches. The incumbent will also have strong programming skills in high-level language(s) used for mathematical/economic modelling (e.g., GAMS, MATLAB, Mathematica) and experience with programming languages typically used in scientific applications (e.g., Python, C++, Fortran). A Ph.D. in geography, economics, agricultural or natural resource economics, or other relevant discipline with 3+ years of post-Ph.D. experience is desirable, although exceptional candidates with Masters degrees and Ph.Ds. with less experience are encouraged to apply.

The incumbent will join the Economics and Integrated Land Use Modelling group, part of Landcare Research's Governance and Policy science team. This multi-disciplinary team holds expertise in environmental economics, geography, spatial modeling, sustainable business, Maori research, collaborative governance, planning, and risk management. As an organisation, Landcare Research is leading innovation in protecting and enhancing the terrestrial environment while growing prosperity.

We collaborate with research institutes in New Zealand and abroad in fulfilling this mission.

As an employee of Landcare Research, you will enjoy generous employment benefits, including generous leave, a contribution to retirement savings, and relocation costs, if required. This full-time, permanent position is based at our Auckland office. However, other Landcare Research locations (Hamilton, Palmerston North, Wellington, and Christchurch (Lincoln)) may be considered in exceptional cases.

To view the position description and to apply, please visit our website: www.landcareresearch.co.nz/jobs. Enquiries may be directed to brownp@landcareresearch.co.nz or +64-9-574-4151.

Leicester, UK. Two Lectureships in GIScience or Remote Sensing at the University of Leicester, UK.

At Leicester we're going places. Ranked in the top 20 universities in Britain our aim is to climb further. A commitment to high quality fused with an inclusive academic culture is our hallmark and led the Times Higher Education to describe us as "elite without being elitist". As part of its ongoing development the Department of Geography, University of Leicester, is seeking to appoint a Lecturer in GIScience.

POST 1:

The areas of research and teaching are open, but we seek to appoint a person whose interests either complement or supplement those of others in the GIScience and Remote Sensing Research Group and who will further enhance the high quality research and teaching work of the Department. You should have a relevant PhD, a strong publication record and evidence of research potential. You will be required to teach on both undergraduate and postgraduate programmes and to supervise undergraduate, Masters and PhD students.

Members of the current GIScience and Remote Sensing group conduct research in the following areas:

- Spatial Literacy and Digital Geographies
- Applied Geocomputation
- Earth Observation

Informal enquiries are welcome and should be made to Professor Pete Fisher on pff1@le.ac.uk or Susan Page on Hodgeog@le.ac.uk

Applications

We use a web based, e-recruitment system, which allows you to apply on-line. Please upload a copy of your CV and a covering letter including the names and addresses of three referees. One of your referees should be your current or most recent employer.

The closing date for this post is midnight on 11 April 2013. We anticipate that interviews will take place on 2 May 2013.

Candidates short-listed for interview will be contacted by the University. If you do not receive a communication from the University within 4 weeks of the closing date, please assume that your application has been unsuccessful.

For further information and to apply on-line

- apply here: <http://tinyurl.com/bqhj7g7>

- further information/ details:

http://www.le.ac.uk/jobs/external/SEN00312_Further_Particulars.pdf

POST 2:

Centre for Landscape and Climate Research:
Lecturer in Geographical Information Science/
Remote Sensing, Ref SEN00337

As part of its ongoing development the Centre for Landscape and Climate Research, University of Leicester, is seeking to appoint a Lecturer in Geographic Information Science / Remote Sensing. We aim to appoint a candidate whose research interests add to the research centre's strategy and complement the GIScience and Remote Sensing Research Group in the Department of Geography. This post will predominantly strengthen the evolution of the centre's research programme and contribute elements to the teaching programme in the Department of Geography. You should have a relevant PhD, a strong publication record and evidence of research excellence. You will be required to supervise PhD students, win research grants and teach on undergraduate and/or postgraduate programmes including supervision of undergraduate and postgraduate dissertation students.

Informal enquiries are welcome and should be made to the Centre Director, Professor Heiko Balzter on hb91@le.ac.uk or 0116 252 3820

Applications

We use a web based, e-recruitment system, which allows you to apply on-line. Please upload a copy of your CV and a covering letter including the names and addresses of three referees. One of your referees should be your current or most recent employer.

The closing date for this post is midnight on 11 April 2013. We anticipate that interviews will take place on 2 May 2013.

Candidates short-listed for interview will be contacted by the University. If you do not receive a communication from the University within 4 weeks of the closing date, please assume that your application has been unsuccessful.

For further information and to apply on-line

- apply here: <http://tinyurl.com/dyjea3b>

- further information/ details:

http://www.le.ac.uk/jobs/external/SEN00337_Further_Particulars.pdf

CALLS AND MEETINGS

Call for Papers: The 21st International Conference on GeoInformatics (Geoinformatics 2013), Henan University, Kaifeng, China, June 20-22, 2013. <http://www.GeoInformatics2013.org>

The Geoinformatics conference series was initiated by the International Association of Chinese Professionals in Geographic Information Sciences (CPGIS) in 1992. This annual international conference has provided a unique forum for exchanging ideas and knowledge on geographic information science between GIS professionals worldwide. The 21st International Conference on Geoinformatics (Geoinformatics 2013) will be held on June 20-22, 2013 at Kaifeng, Henan Province, China. The conference is organized by College of Environment and Planning at Henan University, Key Lab of Geospatial Technology for Middle & Lower Yellow River Regions, Ministry of Education (Henan University), and the International Association of Chinese Professionals in Geographic Information Sciences (CPGIS), and co-organized by Center for Yellow River Civilization and Sustainable Development, Ministry of Education

(Henan University), and Geographical Society of Henan.

In response to the increasing concerns on globalization, regional economic development, and carbon emission and environmental issues, the theme of 2013 conference is "GIS in Economic Development, Regional Planning and Environmental Protection." Geospatial technologies shall play an essential role in regional planning, economic development, environment protection, emergency management, and sustainable development. This conference will provide an excellent opportunity for professionals and students in the geographic information science area to exchange innovative ideas, demonstrate cutting-edge technologies, and present inspiring applications. The conference will include plenaries, special, oral, and poster sessions.

Conference Theme:

GIS in Economic Development, Regional Planning, and Environmental Protection

Publications:

Authors can choose to submit either extended abstract or full paper (but not both). Authors of accepted extended abstract or full papers will be invited to give oral presentations at the conference and their submissions will be included in the CD published by the conferences. Priority will be given to submissions with concrete research results. The length of an extended abstract is 800-1000 words in English. By the tradition, selected full papers from those presented at the conference will be included in the EI-indexed Conference Proceedings published by IEEE GRSS (Geoscience & Remote Sensing Society). Selected papers in specific topics will also be published in peer-reviewed journals as special issue. Please see details in the conference website.

Note: Full papers that are accepted to be included in the Conference proceedings will be charged publication fee, which is separate from the conference registration fee.

Call for Abstracts/Papers:

With regards to "Important Dates" as follows, authors are invited to submit an extended abstract OR a full paper via the conference website (<http://www.geoinformatics2013.org>).

The abstract should clearly indicate the existing results of research and applications related to the themes of the conference.

Important Dates:

March 31, 2013: Abstract/Paper submission deadline

April 30, 2013: Notification of acceptance

May 10, 2013, 12:00 noon (Beijing Time) Close of early registration

Contact information:

E-mail: Geoinformatics2013@gmail.com ,

Telephone/Fax: +86-378-3881850

Call for Papers: ICA Workshop on Street Networks and Transport, August 23-24, 2013 In conjunction with 26th International Cartographic Conference, August 25-30, 2013, Dresden, Germany

Street networks, as one of the oldest infrastructure of transport in the world, play a significant role in modernization, sustainable development, and human daily activities in both ancient and modern times. Although street networks have been well studied in a variety of engineering and scientific disciplines including for instance transport, geography, urban planning, economics and even physics, our understanding of street networks in terms of their structure and dynamics is still very limited to deal with real world problems such as traffic jams, pollution, and human evacuations in case of disaster management. Thanks to the rapid development of geographic information science and related technologies, abundant data of street networks have been collected for better understanding the networks' behavior, and human activities constrained by the networks. This ICA workshop is intended to gather researchers together to present the state of the art research and studies, in an interdisciplinary setting, on street networks and transport. Suggested topics include, but not limited to as long as they address issues related to street networks and/or transport:

Spatial statistics and spatial analysis along networks
 Topological analysis and space syntax
 Pattern recognition with street networks
 Map generalization on street networks
 Complexity measurement of street networks
 Human evacuations and simulations
 Transport modeling based on street networks

Geospatial analysis of the OpenStreetMap data

SUBMISSION:

All manuscripts in a length of 6000-7000 words should be in English, single column, single-spaced with figures and tables within the text. The manuscripts in MS Word 2003 format should contain authors' affiliation and email, abstract (no longer than 200 words), and up to five keywords. To submit, please use EasyChair at <http://www.easychair.org/conferences/?conf=icaworkshop2013>

IMPORTANT DATES:

Deadline for receiving papers: April 25, 2013

Acceptance notification: May 25, 2013

Workshop: August 23-24, 2013

PUBLICATION:

The papers selected for the workshop will follow a peer-review process for publication as a theme issue of the international journal Geographical Analysis.

Inquiries on the workshop can be directed to the workshop organizers, Bin Jiang (bin.jiang@hig.se) or Atsuyuki Okabe (atsu_okabe@sccs.aoyama.ac.jp).

**Spatial Statistics 2013
 Revealing intricacies in spatial and spatio-temporal data with statistics
 Columbus, Ohio, USA, June 4-7, 2013**

You are cordially invited to attend the Spatial Statistics 2013 conference, which will be held in the Ohio Union at The Ohio State University, Columbus, OH, June 4-7, 2013. This conference provides state-of-the-art paper sessions in the field of spatial statistics, including the quantitative analysis of spatial data and the statistical modeling of spatial variability and uncertainty. Researchers participating in this conference come from various fields, including agriculture, geology, ecology, epidemiology, geography, hydrology, and spatial econometrics, and will present in paper, keynote and plenary sessions, participate in panel discussions, and contribute to poster presentation.

KEYNOTE SPEAKERS:

Robert Haining (University of Cambridge, UK)

Pierre Legendre (University of Montreal, Canada)

Jean Paelinck (George Mason University, USA)
 Lance A. Waller (Emory University, USA)
 Jinfeng Wang (Chinese Academy of Science at
 Beijing, China).

PLENARY SPEAKERS:

Sudipto Banerjee (University of Minnesota, USA)
 Montserrat Fuentes (NC State University, USA)
 Jorge Mateu (University of Navarra, Spain)
 Ronny Vallejos (Universidad Técnica Federico
 Santa María, Chile)
 Tonglin Zhang (Purdue University, USA).

For further information, please visit the conference
 web site:

<http://www.spatialstatisticsconference.com/>

COMPETITIONS

John Odland Award

The SAM Student Paper Competition is now the John Odland award, named for the original founder of SAM. This year we have ten submissions for the award, with prizes expected to total \$1000.

Students entered in the competition write a paper of a theoretical or applied nature in the field of spatial analysis and modeling and then present their research in an organized session. The entries are judged by members of the SAM board based on a number of factors, including originality, potential contributions, methodology, paper composition and organization, and overall quality of the work.

The two paper sessions are scheduled back-to-back on **Wednesday 10 April 2013 from 2:40 PM - 4:20 PM and 4:40 PM - 6:20 PM** in Santa Barbara A, Westin, Lobby Level. Winners will be announced later that evening at the SAM Business Meeting. The student presenters include:

2:40 PM Xingjian Liu - Department of Geography, University of Cambridge. Title: Mapping shifting hierarchical and regional tendencies in intercity corporate networks through alluvial diagrams.

3:00 PM Eun-Kyeong Kim - Department of Geography, Pennsylvania State University. Title: Bursts of Spatiotemporal Event.

3:20 PM Qiaojuan Wang - University of Cincinnati, Department of Geography. Title: An Integrated Multilevel Approach of Urban Development by Grid

and Municipality Level: A Case Study of Hamilton County, Ohio.

3:40 PM Jing Gao - University of Wisconsin – Madison. Title: Bias-variance Error Decomposition for Geospatial Regression Models.

4:00 PM Jing Yao - Arizona State University. Title: Geographical Access to Sexual and Reproductive Health Care for Women in Rural Mozambique.

4:40 PM Luyang Ren and Laura Hansen - Clark University. Title: Implementing Visual Contrast in Viewshed Determination.

5:00 PM Ruoqing W Scholz - Texas State University - San Marcos. Title: Detecting Dynamic Activity Patterns at Collective Scale from Large Volume Trajectory Data.

5:20 PM Yue Dou - University of Waterloo. Title: Exploring scenarios for reducing emissions from deforestation and forest degradation in the Brazilian Amazon.

5:40 PM Eric Shook - University of Illinois at Urbana-Champaign. Title: Investigating the Influence of Spatial and Temporal Granularities in a Parsimonious Epidemic Agent-based Model.

6:00 PM Yu Sun. Title: A Fast Algorithm on Calculating Fetch Distance in Raster Space.

INFORMATION

Spatial Analysis and Modeling (SAM)

Our mission is to foster and maintain interaction, cooperation and community among individuals interested in the analysis of geo-referenced data, modeling of spatio-temporal processes and the use of analytical and computational techniques in solving geographic problems. The specialty group promotes the scientific study of physical, environmental and socioeconomic geography and the development, use and teaching of analytical cartography, GIS, remote sensing, spatial statistical, mathematical and computational techniques for spatial analysis.

Membership Dues

Regular: \$6
Student: \$1

Submissions

This newsletter reaches a large number of readers and is therefore an excellent venue for getting the word out on community news, departmental happenings, research findings, media appearances, and the like. It is also a good place to post calls for proposals, awards, grants, fellowships, and jobs. We also invite you to submit commentaries or features of broad interest to specialty group members.

The newsletter relies on volunteers to submit articles, so please take a moment to send along relevant items.

Please send your submission by email to Yongwan Chun (ywchun@utdallas.edu) in text or rich text format. Photos or other images, with captions, are also welcome (GIF, JPG, or PNG).

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