Digest of Items of Interest to the Caucus of Academic Reps – December 6, 2013

Positions
- **DEPUTY DIVISION DIRECTOR FOR SOCIAL AND ECONOMIC SCIENCES, NATIONAL SCIENCE FOUNDATION**
- **Associate Professor, Data-Intensive Research Methodology, University of Florida College of Education**
- **Postdoctoral positions in statistics, University of Chicago, Department of Statistics**

Summer Research Opportunity
- **DHS Summer Research Opportunity Including up to $50,000 in Follow-on Funding**

Summer Internships:
- The call for applications for the Eric & Wendy Schmidt Data Science for Social Good fellowship just went out [http://dssg.io](http://dssg.io) They are also looking for mentors and project sponsors.
- There were five statistics DSSG fellows last summer and four did a Q&A for *Amstat News* last month: [http://magazine.amstat.org/blog/2013/11/01/dssgnov2013/](http://magazine.amstat.org/blog/2013/11/01/dssgnov2013/)
- Nathan Tintle sent an email around to this listserve a month or two ago and then posted it to a blog entry: [http://community.amstat.org/BlogsMain/BlogViewer/?BlogKey=30616e88-d565-4451-87ea-7dc92f8710b5](http://community.amstat.org/BlogsMain/BlogViewer/?BlogKey=30616e88-d565-4451-87ea-7dc92f8710b5)
- White House Office of Science and Technology Office Internships: [http://www.whitehouse.gov/administration/eop/ostp/about/student/](http://www.whitehouse.gov/administration/eop/ostp/about/student/)
- Mary Gray wrote an Amstat News article about internships: [http://magazine.amstat.org/blog/2012/03/01/internships/](http://magazine.amstat.org/blog/2012/03/01/internships/)

Student Competitions/Challenges:
- MIT Big Data Prediction and Visualization Challenge with $10,000 in prizes: [http://bigdatachallenge.csail.mit.edu](http://bigdatachallenge.csail.mit.edu)
Positions

DEPUTY DIVISION DIRECTOR FOR SOCIAL AND ECONOMIC SCIENCES, NATIONAL SCIENCE FOUNDATION

I am seeking your assistance in identifying potential candidates for the position of Deputy Division Director in the Division for Social and Economic Sciences (SBE/SES).

The Deputy Division Director, a key member of the SES Division’s and the SBE Directorate’s management team, provides leadership and direction for the support of research and education activities that develop and advance scientific knowledge focusing on political, economic, and social systems and how individuals and organizations function within them. The Deputy Division Director provides overall direction and management in the directorate that includes a staff of approximately 30 and a FY 2013 budget of approximately $92 million. Information about the SES mission and programs is provided on its Home Page http://www.nsf.gov/div/index.jsp?div=SES

I look forward to any help you may be able to offer as we search for candidates for this key NSF position. I am looking for a person whose strong research background in the Social and Economic Sciences and commitment to interdisciplinary research will enable the continued success of the Division during this exciting time. In addition to a commitment to research in the scientific domains supported by SES, we are also looking for someone with experience in managing a complex organization. NSF is an equal opportunity employer committed to employing a highly qualified staff that reflects the diversity of our nation. This is a permanent Senior Executive Service appointment.

You may access the announcement for this position electronically under Current Vacancies Executive at http://www.nsf.gov/publications/vacancy.jsp?org=SES&nsf_org=SES

I would be glad to discuss this position with you to describe the duties more fully or to hear suggestions for good candidates. Please feel free to contact me by email at jmumpowe@nsf.gov or by telephone at 703-292-7279. NSF's Division of Human Resource Management (HRM) is assisting me in this outreach. Lindsey Boswell (leboswel@nsf.gov; 703-292-4350) is the point of contact in the HRM Division. The application deadline is January 3, 2014.

Associate Professor, Data-Intensive Research Methodology, University of Florida College of Education

Information technology is providing remarkable opportunities to create, collect, compute, and communicate huge quantities of data. Future research in a host of fields will depend on the ability to leverage access to massive and complex data sets. In order to meet these challenges and create a campus-wide presence, the University of Florida has allocated a total of $3.8M in support for new tenure/tenure-track faculty hires into the UF Informatics Institute. These faculty members will have faculty appointments within academic units and will be active members of the Institute. As part of this effort, applications are invited for a tenure track position at the rank of Associate Professor in the Research and Evaluation Methodology (REM) Program of College of Education.

In education, e-learning is booming, and virtual k-12 schools, online tutoring systems, online games and simulations, e-learning management systems, and platforms for learning at scale are generating large
data sets that include section logs, click streams, time on task, question responses, discussion posts, and learning outcomes. The REM program aims to recruit a faculty member whose research focuses on methods for analysis of large-scale educational data, learning analytics, data mining, modeling and simulation in education. This list is not exhaustive, and applicants having research interests in other methods related to big data and informatics in education are encouraged to apply. This faculty member in College of Education will join similarly-targeted hires in the College of Liberal Arts and Sciences to build a cross-college and cross-disciplinary group of scholars active in large data (“Big Data”) applications in the social sciences to leverage the explosion of data in understanding people, culture, politics, and education.

Responsibilities of this position include conducting a program of research and scholarly publication, securing external funding to support research and training agendas, develop new on-campus and online courses, teach existing on-campus and online introductory and intermediate courses in research and analysis methods, supervising graduate student research and teaching, providing consultation to faculty and students, and providing service to the university and profession.

This is a nine-month tenure track position at the Associate Professor rank. Both associate professors and advanced assistant professors are invited to apply. The position requires a doctorate in quantitative research methods, psychometrics, statistics, or any related field. The applicant should have a history of successful grant funding, interdisciplinary collaboration, and publication in the area of expertise commensurate with the title. The successful candidate is expected to begin August, 2014. The University of Florida is strongly committed to diversity of its workplace. College of Education shares this commitment and eagerly invites applicants from diverse backgrounds to apply for the position.

To apply, please visit: https://jobs.ufl.edu Please reference requisition number 0904459. If you have any questions or need any technical help please contact Human Resources at 352-392-2477. Applicants must upload (1) a cover letter addressing research and teaching interests and qualifications, (2) a current curriculum vitae, (3) names, addresses, e-mail addresses, and telephone numbers of at least three references, (4) samples of professional writing, and (5) student assessments of instruction (if available).

Applications will be reviewed beginning January 31, 2014 as received and the position will be open until filled. Send email inquiries or nominations to Walter Leite at remsearch@coe.ufl.edu.

The University of Florida is an Equal Opportunity Institution. The selection process will be conducted in accordance with the provisions of Florida’s "Government in the Sunshine" and Public Records laws. Search Committee meetings and interviews are open to the public and all applications, resumes, and other documents related to the search will be available for public inspection.

ABOUT THE PROGRAM: The REM Program is part of the School of Human Development and Organizational Studies of College of Education. The mission of the REM program is to generate, evaluate, apply and disseminate knowledge about educational research methodology, to prepare exemplary educational research methodologists, and to collaborate with others to provide methodology for the advancement of educational research. It offers Ph.D., M.A.E., and M.Ed. degrees.

ABOUT THE COLLEGE: The UF College of Education, founded in 1906, is Florida’s highest ranking education college and consistently ranks among the top 30 public education colleges in the elite
Association of American Universities. Six of the college’s academic programs, including its online graduate education program, earned top 20 rankings in the latest US News & World Report survey of America’s Best Graduate Schools. Innovative, interdisciplinary research and public scholarship—often conducted in partnership with other UF colleges, school districts and communities—are yielding powerful learning systems and models that are helping to transform education in today’s changing world. The college has 99 full-time faculty members with distinguished records in teaching, research and service. UF education faculty last year held nearly $78 million worth in research grants supporting studies and projects addressing education’s most critical issues. Teaching is one of several areas of study from which UF education students can choose. Nearly 1,700 students are enrolled on campus in 27 bachelor’s and advanced degree programs and concentration areas, within nine academic specialties: K-12 Curriculum and Instruction • Counselor Education • Early Childhood Education • Educational Leadership • Education Administration and Policy • Research and Evaluation Methodology. • School Psychology • Special Education and Early Childhood Studies • Student Personnel in Higher Education. More than 4,000 students worldwide are enrolled in the college’s nationally ranked online programs. To sustain the college's innovative edge deep into the 21st century, heightened emphasis on emerging technology, advanced graduate studies and interdisciplinary research will effectively prepare tomorrow’s leaders in all education professions. The college's educator preparation programs have been continuously accredited by the National Council for the Accreditation of Teacher Education (NCATE) since 1954. Nearly 30,000 “EduGator” alumni are located throughout the world.

ABOUT THE UNIVERSITY: The University of Florida is the state’s only top-20 public research university and one of the most academically diverse universities in the nation. UF traces its beginnings to a small seminary in 1853 and opened its doors in Gainesville in 1906. Today, with more than 4,000 faculty, 50,000 students and 367,000 alumni, UF is home to 16 colleges and more than 150 research centers and institutes. Since 1985, the university has been a member of the Association of American Universities, which comprises the top 62 public and private institutions in North America. The University of Florida is consistently ranked among the nation’s top universities, including No. 14 in U.S. News & World Report “Top Public Universities” (2013) and No. 3 in Kiplinger’s “Best Values in Public Colleges” (2013). The Florida Legislature in 2013 designated UF as the state’s “preeminent” university and allocated $15 million annually to UF for five years to support the university’s goal of joining the nation’s top-10 public universities.

ABOUT THE AREA: UF is situated in Gainesville in North Central Florida, a progressive college town that blends big-city cultural and athletic offerings with small-town friendliness and Southern charm, along with excellent schools. Gainesville is easily accessible to three major metropolitan areas (Jacksonville, Orlando and Tampa). Add the allure of Florida’s famous sunshine, tropical breezes, and abundant springs and rivers nearby, and its little wonder that top-caliber faculty and students find our college and university to be the perfect balance of premier academics and a fulfilling lifestyle.

Postdoctoral positions in statistics, University of Chicago, Department of Statistics

The Department of Statistics at the University of Chicago invites applications for two postdoctoral positions with Professor Michael Stein as the primary mentor through STATMOS (Statistics in the Atmospheric and Oceanic Sciences), an NSF-funded network, which emphasizes interdisciplinary and multi-institution research. For more information, including a list of participating institutions, see
Position 1: This position is joint with RDCEP (Robust Decision Making on Climate and Energy Policy), an NSF-funded center that brings together researchers from a wide range of disciplines to improve the computational models used to evaluate climate and energy policy, see www.rdcep.org. In collaboration with PI Elisabeth Moyer (Geophysical Sciences, University of Chicago) and others, we are particularly interested in statistical emulation of climate model output and the simulation of actual future climates for use in policy analysis. Potential research topics include: the use of spatial statistics for grid-scale emulation; statistical climate model intercomparisons; the combination of model and reanalysis output for improved climate projections of surface temperature and precipitation at the daily time scale; and the characterization and comparison of space-time variability in climate and in climate model output. This position is available for a starting date as early as February 1, 2014.

Substantial computing resources are provided through the U. Chicago/Argonne Computation Institute.

Applicants should have experience in applications of statistics to atmospheric or oceanic science. A PhD in Statistics, Biostatistics, or a PhD in Geosciences with a strong statistical background is required. Strong collaborative skills are highly desirable.

Position 2: This position will be jointly funded through a grant from the US Department of Energy with PI Mihai Anitescu (Department of Statistics, University of Chicago and Mathematics and Computer Science Division, Argonne National Laboratory). The focus for this position is computational challenges in working with large spatial-temporal datasets with applications to climatology and meteorology among other areas. Specific possible projects include computation of exact and approximate likelihoods for Gaussian processes with unstructured covariance matrices, non-Gaussian process models for spatial-temporal data and spectral methods for nonstationary processes.

Applicants should have experience in applications of statistics or computational mathematics to the physical sciences. A PhD in Statistics, Applied Mathematics or a closely related field is required. Experience in programming and manipulation of large datasets is required. Desired starting date of September 1, 2014.

This one posting will be used to hire for both positions. STATMOS postdocs spend time at more than one institution within the STATMOS network, which includes Argonne National Laboratory, located in the suburbs of Chicago. For Position 2, Argonne will serve as the second institution, but for Position 1, other members of the STATMOS network, which includes many universities as well as NCAR, could also be the site of an extended visit.

Postdoctoral appointments are renewable annually but expected duration would be at least two years.

To apply, email a CV, statement of research interests, and names and contact information for at least two references to Michael Stein (stein@galton.uchicago.edu). Indicate position (possibly both) in which you are interested. Applications accepted until both positions are filled. The University of Chicago is an equal opportunity/affirmative action employer.
Summer Research Opportunity

DHS Summer Research Opportunity Including up to $50,000 in Follow-on Funding

DHS is offering faculty and students at Minority Serving Institutions an opportunity to participate in a ten-week summer research team experience at university-based DHS Centers of Excellence as part of its DHS Summer Research Program for Minority Serving Institutions. At the end of the summer, faculty participants are encouraged to apply for up to $50,000 in follow-on funding to continue the research collaboration at their home academic institutions during the following academic year.

More information, including eligibility guidelines and applications forms, can be found at [http://www.orau.gov/dhseducation/faculty/index.html](http://www.orau.gov/dhseducation/faculty/index.html)

Faculty from all science, technology, engineering and math (STEM) disciplines are encouraged to apply, including faculty in agricultural sciences, biological/life sciences, computer and information sciences, engineering, mathematics, physical sciences, psychology, and social sciences.

The program provides early career faculty with research and funding opportunities that can be advantageous when applying for tenure. The program also provides later career faculty with opportunities to apply their well-developed skill sets to homeland security research problems of vital interest to the nation.

Past faculty and student participants have enjoyed the summer research experience, conducted meaningful research, and made new professional connections, many of which have led to fruitful and ongoing research collaborations and additional funding opportunities. Profiles of some of our former participants may be found at [http://www.orau.gov/dhseducation/faculty/stories-srt.html](http://www.orau.gov/dhseducation/faculty/stories-srt.html).

Could you kindly forward this email to any faculty in your school or department who may be interested in applying?

Please note the upcoming faculty application deadline of January 6, 2014. The faculty application solicits information about faculty research interests and is designed to take little time to complete.

Completed faculty applications and CVs are forwarded to DHS Centers of interest to the faculty to determine if there is a good fit between faculty research interests and those of the Center. If a good fit can be found, the faculty receives assistance from the Center in developing a research proposal. The faculty then selects one or two students to apply the program as part of the summer research team. Team applications are reviewed by DHS and the Centers, with award winners announced beginning in early March.

Please feel free to contact me with any questions you or your faculty may have about the application process, the summer research experience, the follow-on funding opportunity at the end of the summer, and/or any other aspect of the program. I may be reached at (865) 576-2077 or at [DHSed@orau.org](mailto:DHSed@orau.org).

Thank you so much for your time and attention.
Lee-Ann Kiser
Program Manager, Science Education Programs
ORAU
Phone: 865-576-2077
Fax: 865-576-4197