Caucus of Academic Reps (CAR) Weekly Digest
January 6, 2017
http://www.amstat.org/education/aboutthecaucus.cfm

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Positions

(1) University of Georgia, Department of Statistics: assistant professor

The Department of Statistics at the University of Georgia invites applications for a tenure-track position at the rank of assistant professor in statistics, starting August 2017. To apply for the position, candidates should visit facultyjobs.uga.edu/postings/1246 and provide all of the requested information.

(2) Missouri University of Science and Technology: open rank positions

Missouri University of Science and Technology has two positions open at the tenure-track Assistant Professor level or at mid-career level for those interested in interdisciplinary work within the University's "Smart Living" signature research area. Smart living environment connects its inhabitants with smart devices, everyday objects, and living structures through sensors, actuators, and similar devices via a real-time network, with the aim of improving the efficiency of the whole system and optimizing living conditions. Mathematical modeling will play an integral role in optimizing the performance of this complex feed-back system. Use of innovative statistical approaches that overcome the challenges posed by high dimensional and high-throughput data will be essential to making meaningful and valid inferences from the massive amount of data arising out of the Smart Living network. Statisticians interested in these positions will fall under the mathematics and statistics cluster.

Mathematics and Statistics Cluster Description

Candidates interested in Mathematics and Statistics as their home department should have a Ph.D. with doctoral research in statistics or applied dynamical systems with an emphasis on stochastic modeling and data analysis. The candidate must show evidence of strong interests in, and the capability for, developing cutting-edge methodology, theory, and computational tools for solving massive, high-dimensional, and complex data intensive problems. Those with skills and experience in the application of mathematics or statistics in the modeling of complex systems, extracting knowledge and providing insights into mechanisms underlying noisy high-dimensional data, and making causal inference will be highly desirable. Training and experience in the use of data visualization tools for high-dimensional data will be a plus. While establishing a successful collaboration with computer, behavioral, and social scientists working on the smart living initiative, the ideal candidate will be able to contribute to establishing a new Big Data analytic paradigm that offers mathematically/statistically optimal yet practical solutions to the challenges posed by massive, high dimensional and high throughput (high frequency) data.

For application details go here.

(3) Duke University, Department of Statistics: Open Rank Teaching Professor/MS Administrator position

The Department of Statistical Science invites applications for an open rank position in the Professor of the Practice of Statistical Science track to begin in Fall 2017. This is a term renewable position. The appointee will serve as the full-time Master’s Program Administrator (MPA) in the department for the Master’s in Statistical Science (MSS) program. The MSS, launched in 2014 and already successful and
visible, is a 2-year degree that provides a modern, comprehensive education in statistical theory, methods and computation, brings students into challenging, real-world research areas, and prepares students for positions in industry, government and other sectors as well as for PhD programs. Roughly half of the graduating MSS students move to R&D in industry, and about half to PhD programs. In concert with the graduate faculty leadership, the Master’s Program Administrator will build on the existing foundation of the program to extend and develop partnerships in industry, government, non-profit, and other sectors, expanding internships and post-graduation job opportunities, as well collaborate with departmental faculty on aspects of the MSS administration and curriculum, and contribute to teaching and mentoring. Full details of the department and the MSS program can be found at www.stat.duke.edu

Preference will be given to candidates with post-PhD experience in R&D in relevant areas, track records in statistical research and education, and a strong interest in program development and administration with relevant experience in leadership and mentoring. To apply, submit a letter, curriculum vitae, personal statement of research and teaching and names/letters from three references via academicjobsonline.org/ajo/jobs/8716.

Enquiries can be emailed to search@stat.duke.edu. The application pool will remain open until the position is filled; screening will begin on February 1, 2017.

(4) Medical University of South Carolina, Department of Public Health Sciences: Two Postdoctoral Researcher Positions in Biostatistics/Bioinformatics

The research group led by Dr. Dongjun Chung in the Department of Public Health Sciences at the Medical University of South Carolina (Charleston, SC) invites applications for two postdoctoral researchers in Biostatistics/Bioinformatics. These positions will provide exciting research opportunities to develop novel statistical methods to solve cutting edge problems in statistical genetics and cancer genomics. The postdoctoral researchers will work with the established interdisciplinary research team consisting of statisticians, bioinformaticians, and laboratory and clinical scientists.

Duties and Responsibilities: The primary focus of the first position will be to develop statistical methods to investigate pleiotropic architecture and to improve statistical power in identification of risk genetic variants, by integrating genome-wide association studies (GWAS) data for multiple phenotypes with various types of genomic annotation and biomedical literature text mining data. The primary focus of the second position will be to develop statistical methods to identify novel cancer subtypes, by integrating multiple types of cancer genomics data with various pathway and biomedical literature text mining data. Additional opportunities may be available to conduct analysis and modeling of GWAS, cancer genomics, genomic annotation, pathway, and biomedical literature text mining data. More information about these positions can be found in the following research group webpage: sites.google.com/site/statdchung

Qualifications:
- PhD in statistics, biostatistics, or related field.
- Interest in statistical genetics, cancer genomics, or bioinformatics.
- The ideal candidate is expected to have experience in developing and implementing Bayesian models to solve bioinformatics problems. Previous experience working with genetic or genomic datasets will be a plus but not required.

**Salary Range:** These positions are full-time two-year appointments with salary of $65,000/year.

**Application Information:** To apply, please submit (1) a cover letter describing research interests and experience, (2) curriculum vitae, and (3) the names and contact information of three references to chungd@musc.edu with the subject line "[POSTDOC]". Informal enquiries about these positions are welcome and can be made to chung@musc.edu.

**Application Deadline:** Review of applications will begin immediately, until the positions are filled.

(5) **Boston University School of Public Health, Department of Biostatistics: multiple positions**

The Department of Biostatistics at the Boston University School of Public Health seeks candidates for one or more faculty positions to lead on innovative biostatistical scholarship and to work collaboratively with Biostatistics faculty and investigators from various biomedical disciplines, and to teach and mentor students. Preference will be given to the Assistant Professor level, but exceptional candidates at Associate or Full Professor will receive consideration.

The Department of Biostatistics is comprised of 29 full-time faculty, who are internationally recognized for their innovation in research and scholarship in various areas of biostatistics including statistical genetics, clinical trials, surveillance, longitudinal studies, Bayesian statistics and risk prediction. Biostatistics faculty play leading roles in several large clinical trials and observational studies such as the renowned Framingham Heart Study, Long Life Family Study, and the Black Women’s Health Study. Their work has contributed new knowledge on genetic and non-genetic factors for cardiovascular disease, dementia and Alzheimer's disease, osteoporosis and arthritis, nutritional epidemiology, healthy aging and extreme longevity. Many of these findings have been effectively translated into current clinical practice.

The department has a large and successful graduate program (PhD and MA), and a federally funded doctoral program for interdisciplinary training of biostatisticians. The department will also start a new MS in Applied Biostatistics in Fall 2017.

Successful applicants will actively engage in both methodological and collaborative research; participate in teaching and mentoring students in the Master of Science, Master of Arts, and Ph.D. programs in Biostatistics, in the Master of Public Health program, and in other programs across the university; and provide service to the department, university, and profession.

Applicants should have a Ph.D. in Biostatistics, Statistics, or other quantitatively oriented field. Applicants must have a demonstrated research record, a strong commitment to teaching, and excellent communication and writing skills.

Applicants should provide their curriculum vitae, a cover letter, a research statement describing their research interests and previous experience, a teaching statement, and three letters of reference at https://academicjobsonline.org/ajo/jobs/8721.
Application review begins January 15, 2017 and will continue to be accepted until the positions are filled.

(6) Rutgers, The State University of New Jersey, Department of Statistics & Biostatistics, Center for Integrative Proteomics Research: Open Rank Faculty Search

The Department of Statistics and Biostatistics and the Center for Integrative Proteomics Research at Rutgers, The State University of New Jersey seek to hire an outstanding faculty member with strong research and teaching interests in statistical analyses of biological and biomedical information. The search is open to all faculty ranks, including tenure-track Assistant Professor, tenure-track Associate Professor, tenured Associate Professor, and tenured Full Professor. Applicants must have Ph.D. in Statistics or related fields, and also a proven track record in research at the interface between advanced analytics and the biological/biomedical sciences. Responsibilities of the position include: teaching and academic advising of both undergraduate and graduate students in statistics, biostatistics or proteomics, and conducting original research. Pursuit of external research funding is expected.

More information about our programs can be found in the websites: www.stat.rutgers.edu; www.proteomics.rutgers.edu; iqbrutgers.edu; rcsb.org.

Interested individuals should apply online through the Rutgers Interfolio website link (http://apply.interfolio.com/36128) by providing a curriculum vitae, research summary, current research support, and teaching statement, and arranging for submission of at least three confidential letters of reference. Review of applications is expected to conclude in December 2016.

Rutgers University-New Brunswick, School of Arts & Sciences, Department of Statistics & Biostatistics: Open Rank Tenure-Track Faculty Positions

The Department of Statistics & Biostatistics of Rutgers University seeks outstanding applicants for two tenure-track positions of all ranks to start fall 2017. Applicants must have a Ph.D. in statistics or a related field by September 1, 2017. Responsibilities of the position include: teaching and supervising both undergraduate and graduate programs in statistics, and conducting original research in broad areas of statistics, particular strength in big-data, data science, and interdisciplinary research of statistics with biology or medicine are preferred. Pursuit of external research funding is expected.

Interested individuals should apply online through the Rutgers Interfolio website link (http://apply.interfolio.com/37771) by providing curriculum vitae, research statement and teaching statement, and arranging for submission of at least three confidential letters of reference.

(7) CSIRO Canberra, Australia Postdoctoral Opportunity

Please bring the following to the attention of your graduating PhD students? This is a unique opportunity to work in the application area of digital agriculture and develop an “uncertainty toolbox” to aid in the quantification, visualization and communication of uncertainty for decision making.

The link to the position is: jobs.csiro.au/job/...
The Department of Information Systems, Statistics, and Management Science in the Culverhouse College of Commerce at The University of Alabama is seeking candidates for the position of Department Head. The Department Head is responsible for providing the leadership needed to work with faculty to establish and accomplish the goals, objectives, and policies of the department. The Department Head will take the necessary actions to enhance instructional quality in the department, facilitate the research mission of the department, and coordinate the service functions of the department. The Department Head is responsible for managing the departmental faculty and staff, including annual evaluations, goals/activities planning, and counseling. The Department Head will be the principal faculty liaison with the administration of the College and University and with external constituencies to assist in obtaining and managing resources needed to accomplish the goals and objectives of the Department. The Department Head should have a commitment to high quality teaching, scholarship, and service.

Successful candidates must be a faculty member who has a research and teaching record consistent with a tenured, full professor in information systems, applied statistics, operations management, or a closely related field at a major research university and who has a broad understanding of information systems, applied statistics, and operations management education at the undergraduate, master's, and Ph.D. levels. Ideal candidates will have a demonstrated record of leadership and administrative experience.

Salary is competitive and commensurate with experience and achievements.

Appointment is effective August 16, 2017.

Review of nominations/applications will begin immediately. All applicants will be required to submit a Curriculum Vitae/Resume, cover letter describing their qualifications and interest in the position, and contact information for three references. Only on-line applications will be accepted. Applicants may apply online at https://facultyjobs.ua.edu. Applications will be accepted until January 22, 2017. Inquiries about the position can be directed to the search committee chair, Jim Cochran, at ismdeptheadsearch@culverhouse.ua.edu.

For the full ad please go to: facultyjobs.ua.edu/postings/40078

(9) Feinstein Institute for Medical Research: Assistant Director - Biostatistics Unit

Our growing research program is seeking an Assistant Director of Biostatistics to assist the Director in managing a large, health system-wide biostatistics department, consisting of 12 masters and doctoral statisticians, which consults and collaborates on a wide variety of translational and clinical research projects. Responsibilities also include consulting, collaboration, grant writing, teaching, methodologic research, and mentoring.

Requirements: Doctoral degree in Statistics, Biostatistics or related field. Minimum of five (5) years managerial experience in overseeing large, complex research projects and associated staff. Extensive experience in writing, developing and collaborating on NIH and other funded research grants. Strong background in statistical consulting, data analysis, statistical computing (SAS), programming, data
management and other statistical software packages. Excellent oral and written communication skills. Good sense of humor.

The Feinstein Institute for Medical Research, which ranks in the top 10th percentile of all NIH grants awarded to research centers, is the research arm of Northwell Health, the largest healthcare provider in New York. Home to 50 research laboratories and to clinical research throughout dozens of hospitals and outpatient facilities, the 2,000 researchers and staff of the Feinstein are making breakthroughs in molecular medicine, genetics, oncology, brain research, mental health, autoimmunity, and bioelectronic medicine – a new field of science that has the potential to revolutionize medicine. For more information about how we empower imagination and pioneer discovery, visit FeinsteinInstitute.org.

Apply On-Line: jobs.northwell.edu Job# 000Z9E

You may also send your CV via email to:

Martin L Lesser, PhD
Assistant Vice President, Biostatistics
Biostatistics Unit
Professor, Feinstein Institute for Medical Research
Professor, Hofstra North Shore-LIJ School of Medicine
mlesser@northwell.edu

(10) Yale University: Three faculty searches

Interdisciplinary Search For Social Sciences

Yale University is conducting an interdisciplinary open rank search for social scientists who develop and apply techniques at the research frontier of statistics and data science. Each appointment will be in the relevant social science department. It is expected that half of the associated teaching will involve courses that will be cross-listed in statistics. Candidates whose work demonstrates both technical mastery and creativity in applications to anthropology, economics, linguistics, political science, psychology, or sociology are especially welcome. Yale University is an Affirmative Action/Equal Opportunity employer. Yale values diversity among its students, staff, and faculty and strongly welcomes applications from women, persons with disabilities, protected veterans, and underrepresented minorities.

Application Instructions: Candidates for a tenured position (associate professor with tenure or full professor) should submit a CV and letter of interest. Candidates for an untenured position should submit a CV and letter of interest, 3 letters of reference and a writing sample. Apply electronically via AcademicJobsOnlineEconJobMarket.org academicjobsonline.org/ajo/jobs/8485. The positions are listed as Social Science/Stat & Data Science, Yale University. Review of applications will begin November 30, 2016 and will continue until the positions are filled.

Assistant, Associate, or Full Professor of Statistics

Yale University Department of Statistics invites applications for an open rank faculty position in Statistics and Data Science, beginning July 2017. The Department seeks candidates who have expertise in both the theory and practice of Statistics, with significant interests in work with real data. The Department
encourages excellence in teaching. Typically faculty members teach a broad range of courses at both graduate and undergraduate levels. Ample opportunities exist for collaboration and cooperative teaching with faculty in other Yale departments and programs. Candidates for a tenured position (associate professor with tenure or full professor) should submit a CV and letter of interest. Candidates for an untenured position should submit a CV and letter of interest, 3 letters of reference and a writing sample. Apply electronically via apply.interfolio.com/39405. More information regarding the department and the position can be found at statistics.yale.edu. Please direct questions to faculty-positions@yale.edu. Evaluation of applicants will begin November 30th and continue until the position is filled.

Search Committee, Yale University Department of Statistics, P.O. Box 208290, New Haven, CT 06520-8290

Joint Opening for an Assistant, Associate, or Full Professor

Yale University's Department of Computer Science and Department of Statistics invite applications for a joint, tenure-track position (at the rank of Assistant, Associate, or Full Professor) to start in the 2017-18 academic year. Researchers with expertise in areas of importance in both CS and Stat (including Machine Learning, Data Mining, and Data Science) and a strong interest in working with real data are encouraged to apply. Applicants are expected to excel in both research and teaching. There are many opportunities for research collaborations across campus, and interdisciplinary work is encouraged. Yale faculty members regularly have the opportunity to teach excellent students, both graduate and undergraduate. Candidates for a tenured position (Associate Professor with tenure or Full Professor) should submit a CV and letter of interest. Candidates for an untenured position should submit a CV and letter of interest, three letters of reference, a research statement, and a teaching statement. More information about the departments can be found at http://cpsc.yale.edu and statistics.yale.edu/. Please direct questions to faculty-positions@yale.edu. Evaluation of applicants will begin on November 30, 2016, and continue until the position is filled. Yale is an affirmative action equal opportunity employer. Yale values diversity among its students, staff, and faculty and strongly welcomes applications from women, persons with disabilities, underrepresented minorities, and protected veterans.

Job requirements: A candidate should hold (or expect to receive by the end of 2017) a Ph.D. in computer science, statistics, or a related discipline. Please apply online at apply.interfolio.com/39534.

(11) AAAS Mas Media Science and Engineering Fellows Program

The AAAS Mass Media Science & Engineering Fellows Program is 10-week summer program placing science, engineering, and mathematics students at media organizations nationwide. Applications due January 15.

(12) University of Rhode Island, Department of Computer Science and Statistics: Assistant Professor in Statistics

The Department of Computer Science and Statistics in the College of Arts and Sciences (A&S) at the University of Rhode Island invites applications for a Tenure Track Assistant Professor in Statistics position with appointment to begin the academic year 2017-2018.
The selected candidate for this position will be expected to teach a variety of undergraduate and graduate courses in statistics, develop new statistics classes at the undergraduate and graduate level, keep an active research program, seek external funding, supervise capstone projects for undergraduate students, advise graduate students in statistics or related fields (through joint supervisions), participate in service activities and provide consulting services to students and other faculty in the Department, College and University.

While all areas of research in statistics or related fields will be considered, statisticians with research focus/interest in areas such as missing values, functional data analysis, stochastic processes, penalized regression, multilevel modeling, hierarchical modeling, meta-analysis, environmental statistics or social statistics are especially encouraged to apply.

Application Deadline: Search is open until filled. First consideration will be given to applications received by January 20, 2017. Second consideration may be given to applications received by February 20, 2017. Applications received subsequent to second consideration date (February 20, 2017) may not be given full consideration. Visit the URI jobs website at https://jobs.uri.edu to apply and view complete details for posting (F00009). APPLICATIONS MUST BE SUBMITTED ONLINE ONLY.

(13) National Commission on Forensic Science: Commissioner with expertise in statistics

The Federal Register Notice for the National Commission on Forensic Science Statistician vacancy was posted on Tuesday, Dec 27. Application instructions are included in the notice and should be submitted by Wednesday, January 11, 2017.


(14) Case Western Reserve University, Department of Epidemiology and Biostatistics: Research Associate

The Department of Epidemiology and Biostatistics at Case Western Reserve University has an immediate opening for a full time Research Associate. Candidates should have a Ph.D. in Biostatistics, Statistics, or related field. The person in this position will provide support and leadership to methodological development and data analyses involving causal mediation analysis with applications to dental and behavioral health. Duties will include programming in R and SAS for data analyses and simulation studies, and participating, both in collaboration and in a lead role, in writing of papers and development of R packages. For the full ad please go to: case.edu/academic-careers

Interested individuals should submit a curriculum vitae, and a brief statement of research interests and career goals to: Jeffrey M. Albert, PhD [jma13@case.edu], Professor, Department of Epidemiology and Biostatistics, Case Western Reserve University, Webpage: epbiwww.case.edu/?p=73
NIJ: Director's Corner: Upcoming Funding Opportunities for Fiscal Year 2017

Be the First to Know!

Sign up to receive an email whenever we release a new solicitation.

Here is an update about NIJ’s upcoming funding opportunities, which will be released over the next several months. To see a list of open funding opportunities, please visit our current funding page.

Our FY17 solicitations will continue to invest in the goals that we defined last year to: (1) Encourage a multidisciplinary approach that emphasizes how social science, forensic science, physical science, and technology are all necessary to solve the range of challenges faced by the criminal justice system and fill gaps in our understanding; and (2) Foster partnerships between researchers and practitioners to ensure that research is relevant and responsive to the needs of those working in criminal justice who will eventually be applying the research through evidence-based practices.

Though the specific research questions in our solicitations change each year to reflect current gaps in our understanding of crime and justice and to meet the needs of policymakers and practitioners, we remain steadfast in our commitment to rigorous and innovative science that develops evidence-based knowledge about issues of great importance to the country.

This year, we are building upon many of the topical priorities set out last year, but targeting our research questions to directly look at key issues affecting the criminal justice system. A selection of our upcoming solicitations include:

- Research and Evaluation in Safety, Health, and Wellness in the Criminal Justice System: Drawing from our safety, health, and wellness strategic research plan, this solicitation will promote multidisciplinary research on stress and trauma within law enforcement, corrections, and individual communities; the impact of parental incarceration on children; and the efficacy of services that respond to children exposed to violence. We do not anticipate releasing any separate research solicitations this year dealing with children exposed to violence or corrections issues.

- Research to Improve Officer Decision-Making: Policing involves interactions between officers and individuals in the communities that they serve, which may require rapid decision-making in potentially dangerous environments. NIJ seeks proposals for interdisciplinary research or evaluation projects to provide knowledge that can improve officer decision-making and enhance outcomes in police-citizen interactions. This may include research on how an officer’s attributes, environment, and training impact their decision-making.

- Understanding the Impacts of Policing Strategies and Practices: When crime reduction is the primary measure of the impact of a policing practice or strategy, its collateral impacts on the community and the police organization, both positive and negative, are not explored. In this solicitation, NIJ seeks research to develop measures of impact that take into consideration how policing strategies positively or negatively impact the individuals, neighborhoods, and
communities policed, particularly as they relate to public trust and police legitimacy. *We do not anticipate releasing any additional policing research solicitations this year beyond the two listed here.*

- **Research on Reducing Violence in Communities:** This new NIJ solicitation seeks research designed to produce sustainable reductions in violence and develop recommendations to reduce violence through community-focused efforts in communities that have suffered from persistently high levels of violence.

- **Investigator-Initiated Research and Evaluation on Firearms Violence:** This solicitation seeks research and evaluation projects related to reducing intentional, interpersonal firearms violence and understanding its causes and effects. NIJ will be focusing on research that can build knowledge; evaluate prevention or intervention programs; assess the effects of legislation; and analyze illicit, secondary firearms markets.

- **New Investigator/Early Career Program:** In the second year of this program, NIJ will be providing new investigators the opportunity to build experience managing federal research grants. Scholars awarded a terminal degree within the last four years are eligible to propose research using either the social and behavioral or STEM disciplines to answer questions or address needs related to crime and justice. [View last year’s awardees.](#)

- **W.E.B. Du Bois Program of Research on Race and Crime:** NIJ will be continuing this long-standing program to identify and understand the dynamics of the criminal justice system that may result in disparities based on gender, race or ethnicity, and culture. Funding will be provided to W.E.B. Du Bois Scholars who are advanced in their careers (awarded a terminal degree at least six years ago) as well as W.E.B. Du Bois Fellows who are early in their careers (awarded a terminal degree within the last six years). [View past and present fellows.](#)

This list is just a glimpse of the funding opportunities that NIJ will open in FY17. Other solicitations will continue to support our nation’s crime laboratories, through capacity building and research; test and assess technology to improve public safety; and build our understanding of diverse crime and victimization issues.

I hope you will consider our priorities for using interdisciplinary research approaches and meaningful partnerships between researchers and practitioner when reviewing our upcoming funding opportunities. For more information about our forthcoming solicitations, visit our [Forthcoming Funding Opportunities page](#). From our [Funding page](#), you can subscribe to receive alerts when solicitations are open, read descriptions of our past awards, and get details on how to apply.

For information about how to ensure your proposal is competitive, read the Director’s Corner message "[Tips for Making Your Proposal Competitive.](#)"

### (2) NSF: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers (ADVANCE)

[www.nsf.gov/funding/...](#)

Preliminary Proposal Deadline Date   April 12, 2017
SYNOPSIS

Despite significant increases in the proportion of women pursuing science, technology, engineering, and mathematics (STEM) doctoral degrees, women are significantly underrepresented as faculty, particularly in upper ranks, and in academic administrative positions, in almost all STEM fields. The problems of recruitment, retention, and advancement that are the causes of this underrepresentation vary by discipline and across groups of women faculty (e.g., by race/ethnicity, disability status, sexual orientation, foreign-born and foreign-trained status, and faculty appointment type). The ADVANCE program is designed to foster gender equity through a focus on the identification and elimination of organizational barriers that impede the full participation and advancement of all women faculty in academic institutions. Organizational barriers that inhibit equity may exist in areas such as policy, practice, culture, and organizational climate. For example, practices in academic departments that result in the inequitable allocation of service or teaching assignments may impede research productivity, delay advancement and create a culture of differential treatment and rewards. Policies and procedures that do not mitigate implicit bias in hiring, tenure, and promotion decisions could mean that women and underrepresented minorities are evaluated less favorably, perpetuating their underrepresentation and contributing to a climate that is not inclusive.

The goals of the ADVANCE program are (1) to develop systemic approaches to increase the representation and advancement of women in academic STEM careers; (2) to develop innovative and sustainable ways to promote gender equity that involve both men and women in the STEM academic workforce; and (3) to contribute to the research knowledge base on gender equity and the intersection of gender and other identities in STEM academic careers. The ADVANCE program contributes to the development of a more diverse science and engineering workforce because of the focus on equity for STEM academic faculty who are educating, training, and mentoring undergraduate and graduate students and postdoctoral scholars.

There are three program tracks. All projects are expected to build on prior ADVANCE work and gender equity research and literature to broaden the implementation of organizational and systemic strategies to foster gender equity in STEM academic careers. All ADVANCE proposals are expected to recognize that gender does not exist in isolation from other characteristics, such as race/ethnicity, disability status, sexual orientation, foreign-born and foreign-trained status, faculty appointment type, etc., and should offer strategies to promote gender equity for all faculty:

- The Institutional Transformation (IT) track supports the development of innovative organizational change strategies to produce comprehensive change within one non-profit two- or four-year academic institution across all STEM disciplines. IT projects are also expected to contribute new research on gender equity in STEM academics. Projects that do not propose innovative strategies may be more appropriate for the Adaptation track.

- The Adaptation track supports the adaptation and implementation of evidence-based organizational change strategies, ideally from among those developed and implemented by ADVANCE projects. Adaptation awards may support the adaptation and implementation of proven organizational change strategies within a non-profit two- or four-year academic institution that has not had an ADVANCE IT award. Adaptation awards may also be made to a STEM organization to implement systemic change strategies focused across all STEM disciplines, several STEM disciplines, or within one STEM discipline.
The Partnership track will support partnerships of two or more non-profit academic institutions and/or STEM organizations to increase gender equity in STEM academics. Projects should have national or regional impact and result in systemic change within one STEM discipline, several STEM disciplines, or all STEM disciplines. Partnering STEM organizations can include any entity eligible for NSF support. Partners may include professional societies, industry, non-profit organizations, publishers, policy and research entities, state systems of higher education, higher education organizations, as well as institutions of higher education. Partnership proposals must include a final year focused on sustainability and/or scale-up, communication, and evaluation.

For all proposals, ADVANCE is interested in supporting a range of non-profit academic institution types including: community colleges, primarily undergraduate institutions, minority-serving institutions (e.g. Tribal Colleges and Universities, Historically Black Colleges and Universities, Hispanic-Serving Institutions, Native Hawaiian Serving Institutions, Alaska Native Institutions, Predominantly Black Institutions and Non-tribal, Native American Serving Institutions), women’s colleges, institutions primarily serving persons with disabilities, and master’s and doctoral level institutions.

ADVANCE does not provide fellowships, research grants, or travel grants to individual students, postdocs, or faculty. Undergraduate STEM opportunities can be found at stemundergrads.science.gov and graduate STEM opportunities at stemgradstudents.science.gov.

(3) NSF: Integrative Strategies for Understanding Neural and Cognitive Systems (NSF-NCS)

www.nsf.gov/funding/…

Full Proposal Deadline Date: February 6, 2017
Letter of Intent Deadline Date: January 9, 2017

SYNOPSIS

The complexities of brain and behavior pose fundamental questions in many areas of science and engineering, drawing intense interest across a broad spectrum of disciplinary perspectives while eluding explanation by any one of them. Rapid advances within and across disciplines are leading to an increasingly interconnected fabric of theories, models, empirical methods and findings, and educational approaches, opening new opportunities to understand complex aspects of neural and cognitive systems through integrative multidisciplinary approaches.

This program calls for innovative, integrative, boundary-crossing proposals that can best capture those opportunities. NSF seeks proposals that are bold, risky, and transcend the perspectives and approaches typical of single-discipline research efforts. This cross-directorate program is one element of NSF’s broader effort directed at Understanding the Brain, a multi-year activity that includes NSF’s participation in the Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative (www.nsf.gov/brain). NSF envisions a connected portfolio of transformative, integrative projects that create synergistic links across investigators and communities, yielding novel ways of tackling the challenges of understanding the brain in action and in context.
Integrative Strategies for Understanding Neural and Cognitive Systems is open to proposals to advance the foundations of one or more of the following integrative research themes, described within the solicitation:

- **Neuroengineering and Brain-Inspired Concepts and Designs**
- **Individuality and Variation**
- **Cognitive and Neural Processes in Realistic, Complex Environments**
- **Data-Intensive Neuroscience and Cognitive Science**.

Within each theme, advances in theory and methods, technological innovations, educational approaches, research infrastructure, and workforce development are all of significant interest. Proposals must be consistent with the missions of the participating directorates. High-risk, high-payoff approaches are expected. Proposals must directly address risks and how they will be managed, potentially transformative payoffs, and the relationship between the risks and rewards at stake.

During FY17 the program will consider two classes of proposals. INTEGRATIVE FOUNDATIONS awards (CISE, EHR, ENG, SBE) will support projects that develop foundational advances that are deeply connected to a broad scope of important research questions in neural and cognitive systems, and have significant potential for transformative advances in one or more of the integrative thematic areas. CORE+ SUPPLEMENTS (CISE, EHR, ENG) will provide additional support to new or existing projects in the participating directorates, to enable additional activities that will connect those projects to significant new integrative opportunities in neural and cognitive systems.

**(4) NSF: Improving Undergraduate STEM Education: Education and Human Resources (IUSE: EHR)**

**Improving Undergraduate STEM Education: Education and Human Resources**

Full Proposal Deadline Date: January 11, 2017

**SYNOPSIS**

A well-prepared, innovative science, technology, engineering and mathematics (STEM) workforce is crucial to the Nation's health and economy. Indeed, recent policy actions and reports have drawn attention to the opportunities and challenges inherent in increasing the number of highly qualified STEM graduates, including STEM teachers. Priorities include educating students to be leaders and innovators in emerging and rapidly changing STEM fields as well as educating a scientifically literate populace. Both of these priorities depend on the nature and quality of the undergraduate education experience. In addressing these STEM challenges and priorities, the National Science Foundation invests in evidence-based and evidence-generating approaches to understanding STEM learning; to designing, testing, and studying instruction and curricular change; to wide dissemination and implementation of best practices; and to broadening participation of individuals and institutions in STEM fields. The goals of these investments include: increasing the number and diversity of STEM students, preparing students well to participate in science for tomorrow, and improving students' STEM learning outcomes.

The Improving Undergraduate STEM Education (IUSE: EHR) program invites proposals that address immediate challenges and opportunities that are facing undergraduate STEM education, as well as those that anticipate new structures (e.g. organizational changes, new methods for certification or credentialing, course re-conception, cyberlearning, etc.) and new functions of the undergraduate
learning and teaching enterprise. The IUSE: EHR program recognizes and respects the variety of
discipline-specific challenges and opportunities facing STEM faculty as they strive to incorporate results
from educational research into classroom practice and work with education research colleagues and
social science learning scholars to advance our understanding of effective teaching and learning.

Toward these ends the program features two tracks: (1) Engaged Student Learning and (2) Institutional
and Community Transformation. Two tiers of projects exist within each track: (i) Exploration and Design
and (ii) Development and Implementation.

Note: Because it addresses undergraduate STEM education, the IUSE: EHR funding opportunity is
offered in alignment with the NSF-wide undergraduate STEM education initiative, Improving
Undergraduate STEM Education (NSF-IUSE). More information about NSF-IUSE can be found in the
Introduction of this solicitation.

(5) NSF: Building Community and Capacity in Data Intensive Research in Education (BCC-EHR)


Estimated Number of Awards: 5

Anticipated Funding Amount: $2,500,000

Synopsis of Program:

As part of NSF’s Cyberinfrastructure Framework for 21st Century Science and Engineering (CIF21)
activity, the Directorate for Education and Human Resources (EHR) seeks to enable research
communities to develop visions, teams, and capabilities dedicated to creating new, large-scale, next-
generation data resources and relevant analytic techniques to advance fundamental research for areas
of research covered by EHR programs. Successful proposals will outline activities that will have
significant impacts across multiple fields by enabling new types of data-intensive research. Investigators
should think broadly and create a vision that extends intellectually across multiple disciplines and that
includes—but is not necessarily limited to - areas of research funded by EHR.

(6) NIH: Cancer Immunologic Data Commons (CIDC)

grants.nih.gov/grants/guide/rfa-files/...

The purpose of this funding opportunity announcement (FOA) is to solicit applications for establishment
of a Cancer Immunologic Data Commons (CIDC) to provide bioinformatics support as part of a Network
for correlative studies in clinical trials involving cancer immunotherapy. The Network will encompass a
single CIDC award (to be supported by this FOA) and up to three Cancer Immune Monitoring and
Analysis Centers (CIMACs) (to be supported by a companion FOA, RFA-CA-17-005).

The goal of the CIMACs-CIDC Network is to enable systematic incorporation of biomarker studies in NCI-
supported early clinical trials for immunotherapy. CIMACs will be responsible for comprehensive
analyses of biospecimens from patients for biomarkers relevant to genomic, phenotypic, and functional
aspects of responses to immunotherapy. CIDC will serve the bioinformatics needs of the Network,
including collection, integration, access, and analysis of data generated from CIMACs. The CIDC will also
contribute to the long-term goal of creating publically accessible Data Commons for cancer immune
profiling as well as clinical data that will allow integrated analysis across trials and access by the larger immuno-oncology research community.

Specifically, the CIDC will be expected to:

- Adopt or develop data collection standards and database modules for key assay platforms for tumor- and immune-profiling. This will be done in collaboration with CIMACs.
- Establish database for collection and management of biomarker and associated clinical data generated from CIMACs.
- Provide and maintain bioinformatics tools for data access and multi-dimensional analysis within and across trials in the CIMACs.
- Facilitate regulated data sharing and access by outside investigators and research community, as appropriate and consistent with achieving the goals of the program.

The long term goal of the CIMACs-CIDC Network is to develop molecular signatures that define immune response categories to correlate with the clinical outcomes of immunotherapy in cancer. Collectively, the outcome of the Network research should lead to the identification of biomarkers with a translational potential for optimizing the therapeutic strategies for patients.

Key Dates

- Posted Date December 16, 2016
- Open Date (Earliest Submission Date) February 3, 2017
- Letter of Intent Due Date(s) 30 days prior to the application due date
- Application Due Date(s) March 3, 2017, by 5:00 PM local time of applicant organization.

(7) NIH: Resource Center for the Consortium for Pancreatic Ductal Adenocarcinoma (PDAC) Translational Studies (U24)

grants.nih.gov/grants/guide/rfa-files/...

Funding Opportunity Purpose

This funding opportunity announcement (FOA) invites applications to establish a Resource Center (RC) for the Consortium for Pancreatic Ductal Adenocarcinoma (PDAC) Translational Studies on the Tumor Microenvironment (Consortium) that has the ultimate goal to design new immunotherapy and combination interventions in PDAC.

The RC will support the administrative coordination of the Consortium, create and support database(s) for data pertinent to the Consortium. It will secure centralized tissue banking for specimens submitted by the members of the Consortium and a virtual biospecimen database that would include all tissue resources of the Consortium. The RC will provide centralized bioinformatics and data analysis support, establish in vivo and in vitro model repositories and distribution units. Lastly, the RC will support meeting and communications coordination among members of Consortium, and form and maintain a Consortium website.

Key Dates
NIH: Novel Analytical Approaches for Metabolomics Data (R03)

grants.nih.gov/grants/guide/rfa-files/...

The purpose of this small research grant Funding Opportunity Announcement (FOA) is to foster collaboration between computational scientists, metabolomics experts, and biomedical researchers in developing, piloting, and/or validating novel bioinformatic approaches that address current analytical hurdles in metabolomics data. A goal of providing powerful approaches that will be useful to biomedical researchers, as well as bioinformaticians, is particularly encouraged. Projects are not intended to supplement ongoing metabolomics analyses, but to provide a tool for broader use by the biomedical research community. Projects are expected to use existing, publicly available metabolomics data and complement the efforts and resources of the Common Fund Metabolomics Program.

Key Dates

- Posted Date December 12, 2016
- Open Date (Earliest Submission Date) January 14, 2017
- Letter of Intent Due Date(s) January 14, 2017
- Application Due Date(s) February 14, 2017, by 5:00 PM local time of applicant organization.

AHRQ: Utilizing Health Information Technology to Scale and Spread Successful Practice Models Using Patient-reported Outcomes (R18)

grants.nih.gov/grants/guide/pa-files/PA-17-077.html

This Funding Opportunity Announcement (FOA) invites R18 grant applications for research that demonstrates how health information technology (IT) can improve patient-centered health outcomes and quality of care in primary care and other ambulatory settings through the scale and spread of successful, health IT-enabled practice models that use patient-reported outcome (PRO) measures to achieve these objectives.

Key Dates

- Open Date (Earliest Submission Date) January 25, 2017

NIH: Exploratory Analyses of Existing Cohorts, Data Sets, and Stored Biospecimens to Address Clinical Aging Research Questions (R01 and R21)

grants.nih.gov/grants/guide/pa-files/PA-17-088.html

Secondary Analyses of Existing Cohorts, Data Sets and Stored Biospecimens to Address Clinical Aging Research Questions (R01)
National Institute on Aging
Application Receipt/Submission Date(s): Standard dates apply, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates.

- Exploratory Analyses of Existing Cohorts, Data Sets, and Stored Biospecimens to Address Clinical Aging Research Questions (R21) (PA-17-089)

National Institute on Aging
Application Receipt/Submission Date(s): Standard dates apply, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates.

**NIH BD2K Webinar Series: Fundamentals in Data Science**

The NIH Big Data to Knowledge program is pleased to announce the spring semester of The BD2K Guide to the Fundamentals of Data Science, a series of online lectures given by experts from across the country covering a range of diverse topics in data science. This course is an introductory overview that assumes no prior knowledge or understanding of data science.

The series will run through May, meeting once per week at 12noon-1pm Eastern Time/9am-10am Pacific Time. No registration is required.

To join the lecture: [www.bigdatau.org/data-science-seminars](http://www.bigdatau.org/data-science-seminars)

This is a joint effort of the BD2K Training Coordinating Center, the BD2K Centers Coordination Center, and the NIH Office of the Associate Director of Data Science.

The first semester of the series covered Data Management and Data Representation. This semester will cover computing, data modeling, and overarching topics. To see archived presentations, go to: [www.bigdatau.org/data-science-seminars](http://www.bigdatau.org/data-science-seminars).

**SCHEDULE**

The following topics will be covered in January through May of 2017:

**SECTION 3: COMPUTING**

- 1/6/17: Computing Overview (Patricia Kovatch, Mount Sinai)
- 1/13/17: Workflows/pipelines (Rommie Amaro, UCSD)
- 1/20/17: Running a Data Science Lab (Trey Ideker, UCSD)
- 1/27/17: Modern Computing: Cloud, Parallel, Distributed, HPC (Umit Catalyurek, GA Tech)
- 2/3/17: Commons: lessons learned, current state (Vivien Bonazzi, NIH)

**SECTION 4: DATA MODELING AND INFERENCE**

- 2/10/17: Data Modeling Overview (Rafael Irizarry, Harvard)
- 2/17/17: Supervised Learning (Daniela Witten, U Washington)
3/10/17: Bayesian inference (Mike Newton, U Wisconsin)
3/17/17: Data issues: Bias, Confounding, and Missing data (Lance Waller, Emory)
3/24/17: Causal inference (Joe Hogan, Brown)
3/31/17: Data Visualization tools and communication (Nils Gehlenborg, Harvard)
4/7/17: Modeling Synthesis (John Harer, Duke)

SECTION 5: ADDITIONAL TOPICS

4/14/17: Open science (Brian Nosek, UVa)
4/21/17: Data sharing (Christine Borgman and Irene Pasquetto, UCLA)
4/28/17: Ethical Issues (Bartha Knoppers, McGill)
5/5/17: Reproducible Research (John Ionnaidis, Stanford)
5/12/17: Additional considerations for clinical data (Zak Kohane, Harvard)
5/19/17: SUMMARY and NIH context

Reasonable accommodation: Individuals with disabilities who need reasonable accommodation to participate in this event should contact Tonya Scott at 301-402-9827. Requests should be made at least 5 business days in advance of the event.

(12) NIH: Notice of Updates to the IMAG Multiscale Modeling Initiative (PAR-15-085)

Note that this update was released to emphasize the interest of the Interagency Modeling and Analysis Group (IMAG) in promoting joint agency funding through the Multiscale Modeling Initiative, grants.nih.gov/grants/guide/notice-files/...

The purpose of this Notice is to clarify the programmatic goals and specific interests of the interagency funding opportunity announcement (FOA) PAR-15-085, Predictive Multiscale Models for Biomedical, Biological, Behavioral, Environmental and Clinical Research (U01). The application submission process will remain the same. This Notice is providing additional information to:
(1) express particular interest in applications proposing the development of non-standard mathematical, statistical and computational modeling methods that address multiscale modeling research challenges that would benefit from joint interagency funding.
(2) update the Specific Interests of the 22 participating funding components and the associated Scientific/Research contacts.

(1) The funding components from the seven funding agencies are very interested in jointly funding integrated research efforts incorporating research on non-standard multiscale modeling methods within a single project. Applicants are strongly encouraged to submit applications to develop multiscale models that are high risk, and push boundaries for novel multiscale modeling methodologies. Applications should emphasize addressing the multiscale modeling methodological challenges, while using domain applications as testbeds for addressing these challenges.

(2) The Specific Interests section below lists updated interest statements from all 22 funding components. Below, are excerpted statements from the six non-NIH funding components, describing examples of non-standard multiscale modeling methods:

ARO: innovative modeling methods, especially from traditionally "pure" areas of mathematics such as topology, differential geometry, and algebra
DOE: new methods for characterizing and imaging molecular systems, and to synthesize and redesign biology processes.

FDA: models to predict whether a proposed medical product design will function properly and safely.

NASA: an overall conceptual framework or organizing principle by which we might better understand how the organism as a whole responds to space flight.

NSF: Advances in methods and tools for predictive modeling, simulation, and analysis of emergent behavior in complex multiscale systems are of interest, including the issues of verification, validation, and uncertainty quantification across scales.

ONR: Basic research in modeling dynamical properties of networks and determining causal effects and influences is needed in networks of interconnected nodes such as social and biological/neural networks.

It would be helpful if the applicants identify the agencies that may have interest with specific research efforts within the potential research proposal. Applicants are strongly encouraged to consult with the Scientific/Research contacts based on the Specific Interests of the participating funding components.

Each of the 22 funding components participating in this FOA are involved in contributing to the review and funding process; and reserves the right to fund or not to fund those efforts regardless of decisions of other agencies. For those applications that are selected for potential joint funding by non-NIH funding components, the PD/PI may be requested to submit the same application directly to interested funding agencies after the review is completed.

Specific Interests:
The following section describes the updated specific interests from two of the 22 participating funding components of this FOA. All interests are examples and are not limited to these cases. Applicants are strongly encouraged to see the full listing of Specific Interests in the guidelines (Section I) and contact the funding components.

The U.S. Army Research Office (ARO), Biomathematics Program is interested in basic, high-risk, high-reward research that uses, develops, and analyzes mechanistic multiscale mathematical models to uncover fundamental relationships in a wide variety of biological systems. The models may use mathematical techniques from fields traditionally used in modeling, such as probability, dynamical systems, and partial differential equations, but innovative modeling methods especially from traditionally "pure" areas of mathematics such as topology, differential geometry, and algebra. Of particular interest currently are projects that use mathematical modeling to find commonalities in mechanism between different biological systems and that express these underlying principles in mathematical terms, as well as research taking advantage of recent advances in neuroscience and newly-available experimental data to gain a fundamental understanding of brain physiology, cognition, and neurological disease through multiscale modeling.

The Office of Naval Research (ONR) Mathematical Data Science (MDS) Program is concerned with basic research in mathematics, probability and statistics, signal processing, machine learning, data engineering, and information theory. The program aims to develop rigorous mathematical and algorithmic answers to questions that are currently addressed using heuristics or non-principled approaches. Recent advances in technology have led to the era of massive data sets which are not only larger, both in terms of sample size and dimensionality of the data, but also more complex. The data can be multi-modal, multi-relational and gathered from different sources. The massive data sets (“Big Data”) introduce unique computational and statistical challenges that require the development of new...
theoretical principles that can extend the inference and learning algorithms to massive scales. An outstanding question that the MDS program is addressing is how to balance the tradeoff between computational accuracy and computational resources when analyzing large and complex datasets. Some of the most challenging datasets include networks of interconnected nodes such as social and biological/neural networks. Basic research in modeling dynamical properties of networks and determining causal effects and influences is needed in this area. In addition, the program is interested in addressing the challenges of collaborative decision making and developing crowdsourcing methods for solving complex problems. The application to ONR should include the full work and the budget corresponding only to tasks associated with the interests of the MDS program. Furthermore, it is the responsibility of the applicants to provide justification for the interagency funding support. Specifically, the applicant should explain why interagency support is needed and how will the efforts that are funded by different agencies benefit the effort that is targeting the MDS program. Proposers are encouraged to contact the Program Officer to discuss their research interest prior to the submission of formal proposals.

Prior Consultation with Scientific/Research Staff
Consultation with relevant Scientific/Research staff is strongly encouraged, not later than the Letter of Intent due date. This is not the same as the Letter of Intent, and should be included as a separate communication to the Scientific/Research Contacts, see Section VII. If requested by the applicants, staff can advise whether the proposed project meets the goals of this FOA. Staff will not evaluate the technical and scientific merit of the proposed project; technical and scientific merit will be determined during peer review using the review criteria indicated in this FOA. During the consultation phase, if the proposed project does not meet the programmatic needs of this FOA, applicants will be strongly encouraged to consider other Funding Opportunities.

**(13) NIH: Notice of Availability of Administrative Supplements for Advancing Computational Modeling and Data Analytics Relevant to Mental Health**

[grants.nih.gov/grants/guide/notice-files/...]

The National Institute of Mental Health (NIMH) announces the opportunity for investigators with relevant active NIMH-supported research project grants (R01, R03, R15, R21, R21/33, and R37), research centers (P-grants) and cooperative agreements (U-grants) to submit administrative supplements submitted to PA-16-287, Administrative Supplements to Existing NIH Grants and Cooperative Agreements (Admin Supp), for funded projects that could benefit from: (1) explanatory computational models (theory- and/or data-driven) to test underlying brain and behavioral mechanisms; and (2) analytical approaches leveraging complex datasets within and across levels of analysis (e.g., genes, molecules, cells, circuits, physiology, and behavior).

This Notice will support the implementation of computational, theoretical, and analytical approaches in existing basic, translational, clinical neuroscience and neuropsychiatry, and mental health services grants. The intent of these supplements is to support the addition of computational approaches for interpreting mental health-relevant data. Applicants for the administrative supplements are encouraged to form new collaborations between computational modelers, clinicians, neuroscientists, biologists, biostatisticians, mathematicians, engineers, etc.

Examples of the types of supplements that are of interest include, but are not limited to the following:
• Integrate deep-learning algorithms with effective explanatory techniques.
• Integrate theory-driven models with data-driven models.
• Integrate bottom-up models with top-down models.
• Integrate explanatory models of spatiotemporal dynamics across multiple levels of analysis.
• Integrate multi-modal data fusion algorithms (e.g., multi-kernel learning) to link distinct levels of analysis to one or multiple outcome measures.
• Apply/develop/validate biophysically realistic bio-structural and functional models enabling both wide-angle investigations (of the full system dynamics in high-resolution) and focused perspectives on specific components, leveraging data from neuro-technologies, such as high-resolution transmission electron microscopy, voltage/calcium indicators, array tomography, etc.
• Apply/develop/validate methods to assess fundamental features in large non-linear systems (e.g., phenotyping activity-patterns of molecules, cells, circuits) based on hybrid mathematical systems.
• Apply/develop/validate algorithms performing trial-by-trial, individual-level, and population-level predictions of behavior from neural data.
• Apply/develop/validate predictive analytic approaches to existing data from healthcare systems (e.g., EMR data) to identify subgroups at high risk (e.g., suicidal behavior; poor treatment response; relapse) in order to consider earlier intervention targets.
• Apply/develop/validate approaches for integrating/linking large data sets (such as, public records, e.g., death records, arrest records) in order to examine the down-stream impact of community-based interventions (e.g., community- or state-level health-promotion or prevention programs).

Develop/apply innovative computational and analytical approaches to:

• Ascribe potential functional roles of genetic variants and incorporate many loci, accounting for pleiotropic effects, additive effects, and epistatic interactions, to increase understanding of the genetic risk architecture for mental illness.
• Systematically evaluate the functional impact of rare variants, both coding and non-coding, on mental illness.
• Improve prediction in determining functional effects of mental illness-associated genetic changes in the regulatory regions of the down-stream pathways, to explain the origin of pathophysiological state associated with mental disorders.
• Analyze single cell genomics, transcriptomics, epigenomics for analysis of postmortem mental disorder brain samples.
• Model the integration of multiple molecular/cellular/circuit/behavioral systems and how they might be impacted by perturbations.
• Integrate genomic and/or epigenomic data with other cell/molecular or functional phenotypic information to promote a greater understanding of cell types in the brain.
• Integrate across multiple data types and/or levels of analysis (genetic, molecular, cellular, circuit) to identify potential new therapeutic targets.
• Examine cross-disorder analyses to provide insights into the phenotypic landscape of mental disorders.
Funds may be available for administrative supplements to meet increased costs that are within the scope of the approved award, but were unforeseen when the new or renewal application or grant progress report for non-competing continuation support was submitted. Applications for administrative supplements are considered prior approval requests (as described in Section 8.1.2.11 of the NIH Grants Policy Statement) and will be routed directly to the Grants Management Officer of the parent award. There is no guarantee that funds are available from NIMH or for any specific grant. All applicants are encouraged to discuss potential requests with their program official. Additionally, prior to submission, applicants must review NIH’s web site to ensure they meet the IC's requirements.

NIMH encourages applications for administrative supplements to be submitted prior to May 1, 2017. For additional reference, see the parent program announcement Administrative Supplements to Existing NIH Grants and Cooperative Agreements (Admin Supp) PA-16-287.

Please direct all inquiries to:

Michele Ferrante, PhD
National Institute of Mental Health (NIMH)
Telephone: 301-435-6782
Email: michele.ferrante@nih.gov

(14) NIH-NSF: Centers for Oceans and Human Health 3: Impacts of Climate Change on Oceans and Great Lakes (COHH3) (P01)

The purpose of this Funding Opportunity Announcement (FOA) is to invite applications for multi-component projects that will investigate the impact of climate change on emerging public health threats associated with marine and Great Lakes Basin environments. The focus of the program will be to support research on the exposures, toxicities and human health impacts that arise in these environments and how climate change is influencing these factors now and in the future. The FOA solicits applications that will achieve program goals through integrated, multidisciplinary scientific approaches and a community engagement component.

Key Dates

- Posted Date December 19, 2016
- Open Date (Earliest Submission Date) February 7, 2017
- Letter of Intent Due Date(s) February 7, 2017
- Application Due Date(s) March 7 2017, by 5:00 PM local time of applicant organization.

(15) NSF: BIGDATA

An updated NSF program solicitation (NSF 17-534) is now available: Critical Techniques, Technologies, and Methodologies for Advancing Foundations and Applications of Big Data Sciences and Engineering (BIGDATA)

Please see www.nsf.gov/funding/pgm_summ.jsp?pims_id=504767 for details.
Full Proposal Window: March 15, 2017 - March 22, 2017

From the program synopsis:

The BIGDATA program seeks novel approaches in computer science, statistics, computational science, and mathematics, along with innovative applications in domain science, including social and behavioral sciences, education, biology, the physical sciences, and engineering, that lead towards the further development of the interdisciplinary field of data science.

The solicitation invites two categories of proposals:

* Foundations (F): those developing or studying fundamental theories, techniques, methodologies, and technologies of broad applicability to big data problems, motivated by specific data challenges and requirements; and

* Innovative Applications (IA): those engaged in translational activities that employ new big data techniques, methodologies, and technologies to address and solve problems in specific application domains. Projects in this category must be collaborative, involving researchers from domain disciplines and one or more methodological disciplines, e.g., computer science, statistics, mathematics, simulation and modeling, etc.

Other opportunities or information

(1) ASA Board of Directors Endorse New Undergraduate Data Science Degree Guidelines

At its quarterly meeting last month, the ASA Board of Directors endorsed curriculum guidelines for undergraduate degrees in data science. The guidelines were recently developed at the Park City Mathematics Institute (PCMI), a three-week intensive workshop in which 25 undergraduate faculty—including computer scientists and mathematicians from a variety of liberal arts colleges and research universities—met to discuss a vision for data science in the undergraduate context, propose necessary activities and skills in such programs, and address implementation strategies.

With demand for data science positions and professionals estimated to reach into the hundreds of thousands in just a few years, the authors of the guidelines hope this effort serves as a starting point for discussion about how colleges and universities can build new programs and transition existing ones.

(2) Nine Recognitions of Statistics in 2016

JSM 2017 Topic Contributed Session proposals due soon

Baltimore JSM 2017
July 29–August 3

Topic-Contributed Session Proposals Due Soon!

Submission Deadline: January 11

Do you have a great idea for a panel or paper session at JSM? It's time to submit your proposal to the program committee!

A topic-contributed session proposal includes a session title, general description of the session, list of participants, and tentative talk titles. Get started here with a checklist of everything you need, and then we'll walk you through the submission process step by step.

The JSM 2017 theme, Statistics: It's Essential, encourages us to highlight and promote the importance and achievements of our discipline and illustrate how fundamental statistics is to all aspects of scientific endeavor, societal advancement, and even daily life.

Share what that means to you and your colleagues—showcase your work and ideas by submitting your session proposal before submissions close January 11.

(4) Nominations for the FN David Award, Snedecor Award, and Presidents’ Award close Jan. 15

The F.N. David Award is a multi-society award presented at the Joint Statistics Meeting every two years. This award is given to a female statistician who serves as a role model to other women by her contributions to the profession through excellence in research, leadership of collaborative groups, statistics education or service to the professional societies.

The deadline for nominations is January 15. For more information, see the COPSS website at community.amstat.org/copss/awards/fn-david. Nominations should be sent to Roxy Peck, rpeck@calpoly.edu

The COPSS Presidents’ Award is given annually to a person under the age of 41, in recognition of outstanding contributions to the profession of statistics. This is a high profile award that is intended to
highlight innovative and meritorious work by our junior colleagues. See http://community.amstat.org/copss/awards/presidents. Send nominations to Peter McCullagh, pmcc@galton.uchicago.edu.

The GW Snedecor award, established in 1976, honors an individual who was instrumental in the development of statistical theory in biometry. The award is for a noteworthy publication in biometry within three years of the data of the award. See http://community.amstat.org/copss/awards/snedecor and send nominations to Paul Rathouz, rathouz@biostat.wisc.edu.

(5) The 14th Graybill Conference on Statistical Genetics and Genomics

Dates: June 5-7, 2017
Location: Colorado State University, Fort Collins, CO

Statistical genomics and genetics have been growing remarkably fast and covering more and more topics in both fields, and nowadays they are essential parts of modern biological and medical researches and meanwhile important research topics within statistics, so that exposure and understanding of the motivating problems, newly-developed models and methods, and working protocols are extremely useful to both statistician, biology and medical researchers, and graduate students. The goal of the conference is to provide an opportunity for quantitative scientists including statisticians, bioinformatists, and computer scientists as well as practitioners including biologists, biomedical researchers, and graduate students to generate and share ideas for new creative research in both statistics and genomics or genetics; to exchange knowledge on frontier statistical methodologies on problems rising from genomics and genetics; and to stimulate professional networking opportunities.

The keynote speakers are

- Xihong Lin, Henry Pickering Walcott Professor of Biostatistics and the Chair of Department of Biostatistics in Harvard University.
- Kathryn Roeder, Professor of Statistics and Computational Biology, and Vice Provost for Faculty in Carnegie Mellon University.
- John Storey, Director of the Center for Statistics and Machine Learning, William R. Harman ’63 and Mary-Love Harman Professor in Genomics, and Professor in the Lewis-Sigler Institute for Integrative Genomics in Princeton University.

There will be invited talks by distinguished researchers, and a poster session by young researchers and graduate students. For more information, please visit the website: http://graybill.wolpe2.natsci.colostate.edu/.

Registration is open now. Please register and submit the abstract on the website. In order to encourage graduate students and young researchers to conduct a cutting-edge research, we are currently organizing a poster session. The workshop will be providing partial travel awards to selected conference participants. Priority will be given to senior graduate students, post-graduate, recent Ph.D.’s, junior faculty, and under-represented groups. If you have any questions, please contact graybill2017@stat.colostate.edu.
(6) The 5th Workshop on Biostatistics and Bioinformatics

Event dates: May 5-7, 2017

Event location: Georgia State University, Atlanta, GA

Biostatistics and Bioinformatics have been playing key and important roles in statistics and other scientific research fields in recent years. The goal of this workshop is to stimulate research and to foster the interaction of researchers in Biostatistics & Bioinformatics research areas. The workshop will provide the opportunity for faculty and graduate students to meet the top researchers, identify important directions for future research, facilitate research collaboration.

The keynote speaker is Dr. Tony Cai, Dorothy Silberberg Professor of Statistics, the Wharton School, University of Pennsylvania, and a recipient of COPSS President’s Award in 2008.

There will be invited talks by distinguished researchers, and a poster session by young researchers and graduate students. For more information, please visit the website:
math.gsu.edu/~yichuan/2017Workshop/index.html

The registration is open. Please register and submit the abstract on the website. In order to encourage graduate students and young researchers to conduct a cutting-edge research, we are currently organizing a poster session. The workshop will be providing partial travel awards to selected conference participants. Priority will be given to senior graduate students, post-graduate, recent Ph.D’s, junior faculty, and under-represented groups.

(7) NIH IMAG 10th Anniversary Multiscale Modeling Consortium Meeting - Registration & Abstract Submission

Register for the IMAG 10th Anniversary Multiscale Modeling (MSM) Consortium meeting on March 22-24, 2017 at the NIH Natcher Conference Center. Please register and submit your abstracts at: IMAG 10th Anniversary MSM Consortium Meeting. Each MSM project may submit multiple abstracts, but not all may be accepted. Each abstract will require a separate registered presenter. Please remember the email you used to register so you can return to your own registration page to update your abstract submission.

Important Deadlines:

- Poster Abstract Submission: January 20, 2017
- Hotel Registration: February 21, 2017
- Online Meeting Registration: March 10, 2017
- Dinner will occur the night of March 23rd – please RSVP through the registration site!

DRAFT Agenda

This wiki site will be updated as plans further develop, imagwiki.nibib.nih.gov/imag-events/...

(8) Enrollment Open for FREE Teaching Statistics Through Data Investigations MOOC

Registration is now open for the Teaching Statistics Through Data Investigations MOOC for Educators. This course focuses on learning approaches and teaching strategies for teaching statistics with real data,
and introduces participants to many rich resources and technology tools. Past participants (over 2700 from 84 countries and all 50 states), have included educators who teach statistics in middle school, high school, and intro level statistics in college to undergraduates or graduate students.

The course opens January 23rd 2017 and will remain open through mid May to allow for flexibility in learning at your own pace.

The course features video discussions of an expert panel of statistics educators that includes Hollylynne Lee (course designer and instructor), Christine Franklin (ASA’s K-12 Statistics Ambassador), Webster West (developer of StatCrunch), and Susan Friel (author of statistics content in a middle school series Connected Mathematics Project). There are many engaging videos of students and teachers working in classrooms and opportunities to dive into real data sets using technology tools. Participants can join a community of educators dedicated to improving their practices and learn with and from each other in our rich discussion forums!

Participants can earn a certificate for 20 hrs of professional development, plus demonstrate their competency through performance assessments, called micro-credentials, related to understanding principles to guide instruction (extended from ASA’s GAISE documents), and designing worthwhile statistics tasks. Each micro-credential can lead to set number of Continuing Education Units (CEUs), plus a certificate and digital badge.

The ASA is providing funds to support teams of educators working together in the course. A team leader can earn $750 for forming a team of educators and hosting several support meetings (in person or virtual) throughout the course. A team could consist of middle school or high school teachers, university faculty or TAs, or community college faculty. If you are interested in forming a team, please complete this interest form. The attached flyers can be used to recruit a team.

Please share this information with anyone you know who may be interested in this FREE online professional development course, funded with support from the William and Ida Hewlett Foundation. Contact Hollylynne Lee with any questions at hollylynne@ncsu.edu.

(9) 2017 Modern Modeling Methods conference at UCONN- proposals due 2/1/17

The Modern Modeling Methods (M3) conference is an interdisciplinary conference designed to showcase the latest modeling methods and to present research related to these methodologies. The 7th annual M3 conference will be held May 22nd-25th, 2017 at the University of Connecticut. Our keynote speakers for the 2017 conference include Dr. Steven Boker (UVA) and Dr. Kenneth A. Bollen (UNC). In addition, Steven Boker will conduct a full day pre-conference workshop on Monday (May 22nd), on Dynamic SEM. Kenneth Bollen will offer a half day post-conference workshop on Thursday (May 25th), on Model implied instrumental variables using MIIVsem. In addition, Craig Enders will offer a three hour session on Wednesday afternoon (May 24th) on Multiple Imputation for Multilevel Data. There is no additional charge to attend the featured double session- it is open to all conference attendees.

We are currently soliciting presentations- we welcome both methodological research papers and papers that illustrate novel applications of methodological techniques in the area of modeling, broadly defined. Papers related to multilevel modeling, structural equation modeling, mixture modeling, longitudinal modeling, and item response theory are especially encouraged. Given the interdisciplinary focus of the
Conference, it is completely acceptable to present papers that have been published or presented elsewhere. Presenters may select the length of the session that they prefer: 30 minutes, 60 minutes, or 90 minutes. We also welcome proposals for multi-paper symposia on thematically grouped topics. Generally, symposia sessions will be 90 minutes in length. Finally, there is a poster session and reception at the end of the first day of the conference, and we are seeking submissions for the poster session. Graduate students are also encouraged to submit proposals, especially for the poster session.

Conference proposals for the Modern Modeling Methods conference may fall into one (or more) of four categories: Methodological Innovation, Methodological Application, Methodological Illustration, or Methodological Evaluation. Methodological Innovation proposals introduce a new technique. Methodological Evaluation proposals present the results of empirical research evaluating a methodology. Most often, these will involve simulation studies. Methodological Application proposals present the methods and results of a real research study in which the technique was used. Methodological Illustration proposals provide a pedagogical illustration of when and how to use the technique; these papers are designed to help the audience be able to implement the technique themselves.

There are three different types of presentations: Paper sessions (in which authors submit a paper), Symposia (in which a group of authors submit a set of related talks/papers), and posters. Methodological Research paper proposals should be no longer than 1000 words and should include purpose, background, methods, results, discussion, and significance. Methodological Illustration paper proposals should be no longer than 1,000 words and should include a description of the methodology to be illustrated as well as an outline of the paper/talk. Proposals for symposia should be include titles, authors, and brief descriptions/abstracts for all of the paper presentations within the symposium. Symposium proposals may be longer than 1000 words if needed, but they should be less than 2000 words. Proposals for the poster session need only submit an abstract: the 1000 word proposal is not required for poster session proposals.

Proposals for the 2017 conference are due February 1st, 2017. Notifications of presentation status will be emailed by February 18th, 2017.

All proposals should be submitted electronically at the MMM website. The proposal submission portal is available at uconn.co1.qualtrics.com/jfe/form/SV_dihHTwNNeH31cnoV. For more information about the conference, please go to http://www.modeling.uconn.edu/.

(10) Call for SPAIG Award Nominations to Recognize Successful Collaborations

Have you seen great examples of collaboration? Are you part of an organization that has an effective partnership with another organization? Then we want your help. We want nominations that recognize excellence among collaborating organizations for the ASA SPAIG award.

For nomination instructions and a form, visit the SPAIG website. The winner will be recognized before the President's Invited Address at the 2017 Joint Statistical Meetings in Baltimore, Maryland. Nominations are due by March 1.

Please see the rest of this article in this month's AmStat News and instructions:
magazine.amstat.org/blog/2017/01/01/spaig-award
(11) 70th Summer Institute in Survey Research Techniques

Details at http://si.isr.umich.edu/

Please share this information with anyone that you feel may be interested in learning more about courses in survey research techniques.

(12) ASA Conference on Statistical Practice

Early Bird Registration Ends Soon! Register Today.

Early Registration Deadline—January 10
By focusing on applied methods and best practices, CSP attendees learn skills and techniques that are directly applicable to their jobs or careers in statistics, analytics, biostatistics, and data science.

Register for CSP 2017 and see for yourself why the conference is becoming such an important force in the applied statistics and data science communities. Big themes this year include the following:

- **Communication, Collaboration, and Career Development**
- **Data Modeling and Analysis**
- **Big Data and Data Science**
- **Software, Programming, and Graphics**

Check out the online program and start planning which sessions and courses you will attend. Also, remember to register by January 10 for a discount.

We look forward to seeing you in sunny Jacksonville this February!

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(13) **ASA/AMATYC Joint Committee Webinar on Monday February 6**th

The next webinar sponsored by the ASA/AMATYC Joint Committee will be held on Monday, February 6th. The webinar is titled “IPUMS Data: Real-World Data for Teaching” and it will be presented by Lara Cleveland. I hope that you will join us for it.

Here is more information about the webinar.

**Title:** IPUMS Data: Real-World Data for Teaching

**Speaker:** Lara Cleveland

**Sponsoring Committee:** ASA/AMATYC Joint Committee

**Date:** Monday February 6, 2017

**Time:** Noon EST / 11:00 AM CST / 10:00 AM MST / 9:00 AM PST

**Abstract:** This webinar will teach participants how to acquire data from the IPUMS (Integrated Public Use Microdata Series) for use in teaching basic statistical concepts. IPUMS is a collection of data dissemination projects of the Minnesota Population Center (MPC) at the University of Minnesota, one of the world's leading developers of demographic data resources. IPUMS projects harmonize and deliver microdata samples from U.S. and International censuses and surveys to thousands of researchers, policymakers, teachers and students free of charge over the internet. IPUMS allows users to select
integrated microdata files from censuses and surveys through a user-friendly web-based dissemination system. This webinar will familiarize participants with the data request system, provide an overview of variables and topics available, and demonstrate the online tabulation system. Data available through the IPUMS cover a range of social topics including work and income, educational attainment, disability, race, and gender, among others. Data about the social world, such as those available through IPUMS, are especially useful for teaching data visualization and categorical data concepts.

Here is registration information.

This webinar is free for ASA and AMATYC members. ASA members need to sign in to AMATYC’s website as a “Friend of AMATYC” in order to register for the webinar.

To register for the webinar, please go to AMATYC’s website (http://www.amatyc.org/) and click on the registration link for the webinar. After you click “Register” it should bring you to a screen that says “Sign-In Required.” Choose “signed in” then “Click here to join AMATYC” under the heading “Haven’t Joined Yet?” Then choose “Friend of AMATYC”. This should allow you to sign in to the website and register for the webinar.

The registration process then has two steps: completing your registration information on AMATYC’s webpage, and then clicking on the link to Zoom’s webpage and completing your registration information on Zoom’s webpage. Please make sure that you complete both steps. You should receive two separate e-mail confirmations.

(14) Nathan Mantel Award for Lifetime Contributions to Statistics in Epidemiology: Call for Nominations

The Section on Statistics in Epidemiology (SIE) of the American Statistical Association invites nominations for the Nathan Mantel Award for lifetime contributions to the development and application of statistical science to problems and issues in epidemiology. The award is in honor of Nathan Mantel (1919-2002), in recognition of his seminal and pivotal contributions to statistics in epidemiology. The award consists of $1000 and a plaque and will be presented by the SIE Section at the Joint Statistical Meetings (JSM) in Baltimore, Maryland (July 29-August 3, 2017).

The nominee should be a person widely known to have a strong established record in developing statistical methods for epidemiology. Consideration is not limited to candidates who are members of the SIE Section.

To submit a nomination, please submit a CV and cover letter to Yueh-Yun Chi (yychi@ufl.edu), the Section Secretary/Treasurer, by February 1, 2017. Questions about the award can also be addressed to Susan Shortreed, the Section Chair at shortreed.s@ghc.org.

Previous recipients of the Nathan Mantel Award include Norman Breslow, Ron Brookmeyer, Mitchell Gail, Ross Prentice, Jamie Robins, Clarice Weinberg, and Alice Whittemore.
(15) Registration Now Open! - 10th Annual University of Pennsylvania Conference on Data and Safety Monitoring Committees in Clinical Trials: Current Issues

REGISTRATION NOW OPEN
10th Annual University of Pennsylvania Conference on Statistical Issues in Clinical Trials

Current Issues Regarding Data and Safety Monitoring Committees in Clinical Trials

When: Wednesday, April 19, 2017
Time: 8:00 A.M. to 5:00 P.M.
Where: University of Pennsylvania, Philadelphia

For further information please visit:
https://www.med.upenn.edu/cceb/biostat/ClinTrials17_index.shtml

Faculty & Provisional Talks:
Thomas Fleming, PhD, University of Washington
Emerging Challenges in the Practice of Clinical Trial Data Monitoring Committees

David DeMets, PhD, University of Wisconsin
The Independent Statistician Model: How Well is it Working?

Pamela Shaw, PhD, University of Pennsylvania
Choosing Monitoring Boundaries: Balancing Risks and Benefits

James Neaton, PhD, University of Minnesota
How to Construct an Optimal Interim Report: What the DMC Does and Doesn’t Need to Know

Panelists:
Barry Davis, MD, PhD, University of Texas
Kay Dickens, PhD, Johns Hopkins University
Dennis Dixon, PhD, NIAID (retired)
Frederick Ferri, MD, MD, NIH
Judith Goldbarg, ScD, New York University
David Kerr, MS, Avio Research
Stephen Kimmel, MD, MSCE, University of Pennsylvania
John Lachin, ScD, George Washington University
Maureen Maguire, PhD, University of Pennsylvania
Cornee Sanders, PhD, Genentech
Steve Snapinn, PhD, Amgen
Janet Wittes, PhD, Statistics Collaborative, Inc.

Link for Registration: www.med.upenn.edu/cceb/biostat/ClinTrials17_index.shtml

(16) FCEN-ISBS International Statistics Conference @ Vienna, Aug 28 - Sep 1 2017: Call for Topic Contributed Session by Jan 31st

Please see www.cenisbs2017.org for details. As a particular highlight, a satellite symposium will also be co-organized by the European Medicines Agency (EMA) on the last day of the conference. The deadline for proposals of topic contributed sessions at the conference is 31st January, 2017
Roundtable Discussion and Poster Proposals Being Accepted

Will you be part of the most relevant conference for statistical practitioners in the biopharmaceutical arena?

Start a conversation with your colleagues at the 2017 ASA Biopharmaceutical Section Regulatory-Industry Statistics Workshop—submit an abstract for a roundtable discussion or poster presentation!

Roundtable discussion proposals are due March 15.

Poster session proposals are due March 31.

The three-day workshop is sponsored by the ASA Biopharmaceutical Section, bringing together speakers from industry, academia, and the FDA for open discussion of mutual interests. Posters and roundtables in particular offer valuable opportunities to share and discuss ideas face to face with the best minds in the field.

Submit your proposal for a roundtable discussion or poster presentation at the 2017 workshop.

Click here for more information on ICFIS 2017

South Dakota State University invites you to participate in the Tenth International Conference on Forensic Inference and Statistics. The University is honored to host ICFIS 2017. The aim of the symposium is to bring together the diverse scientific communities involved in the various aspects of forensic interpretation and statistics.
Developments in forensic disciplines are fast and have an increasing impact on law enforcement and the justice system. Evidence can only be of value when it is properly gathered, analyzed, evaluated and communicated. For this to happen, there needs to be sound statistical and logical inference methods, and good communication between scientists, lawyers, judges and other stakeholders of the criminal justice system.

Dates: Tuesday, September 5, 2017 - Friday, September 8, 2017