Caucus of Academic Reps (CAR) Weekly Digest
July 14, 2017

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No new listings this week
(1) **Colorado State University, Department of Statistics: Instructor positions**

The Department of Statistics invites applications for two instructor positions during the 2017-18 academic year, with the possibility of multi-year contracts in subsequent years. The primary job responsibilities will consist of teaching at the undergraduate level and planning and coordination of recitations conducted by graduate teaching assistants.

Applicants should possess a MS in Statistics or a related area. For candidates with a PhD in Statistics or related area, the opportunity exists to switch the position to an assistant professor (non-tenure-track) in subsequent years, with suitable adjustment of duties.

Review of applications will begin immediately and continue until the position has been filled. Salary is competitive and the position includes university benefits.

The department currently comprises 20 faculty and offers statistics degrees at the undergraduate, master and PhD level. Further information about the department is available at [http://www.stat.colostate.edu/](http://www.stat.colostate.edu/). Fort Collins, the home of Colorado State University, is located one hour north of Denver, in a beautiful location along the Front Range of the Rocky Mountains. Fort Collins is an appealing city of 160,000 that offers a pleasant climate with abundant recreational and cultural opportunities nearby.

Applications should be submitted online at [http://www.stat.colostate.edu/statdepartment/statemployment.html](http://www.stat.colostate.edu/statdepartment/statemployment.html) by following the instructions for the “instructor - open pool” position. For any questions about these positions, please contact Don Estep, Chair, Department of Statistics, Colorado State University, at Donald.Estep@colostate.edu.

(2) **American University, Department of Mathematics and Statistics: Professorial Lecturer (several positions)**

The American University Department of Mathematics and Statistics has several full-time positions available for the academic year 2017-2018. The positions as Professorial Lecturer are term appointments for one year, but potentially renewable. The teaching load is generally 5 four-credit courses per academic year with other academic responsibilities. A Ph.D. in statistics is preferred although a master’s degree with experience teaching undergraduate statistics will be considered. Those interested should send an expression of interest, a cv, and names of several references to Chris Mitchell at mitchell@american.edu as soon as possible.
(1) NIH: Mentored Quantitative Research Development Award (Parent K25)


The purpose of the Mentored Quantitative Research Career Development Award (K25) is to attract to NIH-relevant research those investigators whose quantitative science and engineering research has thus far not been focused primarily on questions of health and disease. The K25 award will provide support and "protected time" for a period of supervised study and research for productive professionals with quantitative (e.g., mathematics, statistics, economics, computer science, imaging science, informatics, physics, chemistry) and engineering backgrounds to integrate their expertise with NIH-relevant research.

Prospective candidates are encouraged to contact the relevant NIH staff for IC-specific programmatic and budgetary information: Table of IC-Specific Information, Requirements and Staff Contacts.

Due dates three times a year: Feb. 12, June 12, October 12

(2) NIH: Reminder regarding NIH F Series training grants

The NIH F Series training grants are due three times a year: April 8, August 8, December 8

[F31](#)

Ruth L. Kirschstein Predoctoral Individual National Research Service Award

To provide predoctoral individuals with supervised research training in specified health and health-related areas leading toward the research doctoral degree (e.g., PhD).

Details

[View Current Funding Opportunities](#)

(3) NIH: Development, Integration, and Data Mining of Biomolecular and Cellular Networks for Discovering Druggable Targets for Alcohol Use Disorder and Alcohol-Induced Organ Damage

[NOT-AA-17-007](#)

Issued by National Institute on Alcohol Abuse and Alcoholism (NIAAA)

This NIH Guide Notice is to encourage the use of biomolecular and cellular networks to better understand the mechanisms underlying Alcohol Use Disorder (AUD) and alcohol-induced organ damage (AIOD) and to identify potential therapeutic targets for treating AUD and AIOD. Traditionally, drug discovery has hinged on selecting "one target, one drug." To increase the likelihood of developing a greater number of efficacious medications and identify more effective druggable targets,
complementary approaches are needed. Network pharmacological and system genomics approaches enable us to incorporate, integrate, and prioritize "multiple targets, multiple drugs" in a single concerted way. This may offer significant advantages over traditional approaches to drug discovery. Several types of biomolecular networks are known to exist, such as gene-gene interactive networks, gene-protein networks, protein-protein interaction networks, metabolic networks, and regulatory networks, including non-coding RNA networks that influence overall genomic function. These biomolecular networks have been identified using multidisciplinary approaches, including bioinformatics, systems biology, network biology, cheminformatics, and pharmacology. Such networks can be very powerful and can assimilate large amounts of data, especially from genomics, epigenomics, transcriptomics, proteomics, and metabolomics data sets. Moreover, because such biomolecular and cellular networks are dynamic in nature, modeling needs to be active and ever-changing to increase the validity of these networks. Finally, given their vital role, these networks should help to identify mechanisms underlying AUD and AIOD and new druggable targets, mainly proteins, genes, and RNAs.

NIAAA encourages researchers to use existing programs (e.g., NIH Common Fund: commonfund.nih.gov/) to develop and integrate biomolecular and cellular networks toward discovering new, effective targets and target combinations and subsequent candidate compounds (both novel and repurposing compounds) to treat AUD and AIOD. This effort blends informatics with biological understanding of the mechanisms surrounding AUD and AIOD to give a more complete understanding of how a particular medication might work and to identify subgroups of people who might benefit the most from that medication. Because such biomolecular and cellular networks are dynamic in nature, dynamic modelling of these networks should be considered.

Please direct all inquiries to:

Hemin Chin, PhD
Division of Neuroscience and Behavior
National Institute on Alcohol Abuse and Alcoholism (NIAAA)
Telephone: 301-594-1282
Email: chinh@mail.nih.gov

Dale Hereld, MD, PhD
Division of Metabolism and Health Effects
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(4) PCORI: Improving Methods for Conducting PCOR - Cycle 3 2017

www.pcori.org/funding-opportunities/announcement/...
(5) NSF: Computing and Communication Foundations (CCF): Core Programs


Submission Window Date(s) (due by 5 p.m. submitter's local time):

- September 20, 2017 - September 27, 2017  MEDIUM
- November 01, 2017 - November 15, 2017  SMALL

Synopsis of Program:

CISE's Division of Computing and Communication Foundations (CCF) supports research and education projects that develop new knowledge in three core programs:

- The Algorithmic Foundations (AF) program;
- The Communications and Information Foundations (CIF) program; and
- The Software and Hardware Foundations (SHF) program.

Proposers are invited to submit proposals in two project classes, which are defined as follows:

- Small Projects - up to $500,000 total budget with durations up to three years; and
- Medium Projects - $500,001 to $1,200,000 total budget with durations up to four years.

(6) NSF: Information and Intelligent Systems (IIS): Core Programs

www.nsf.gov/funding/...

Submission Window Date(s) (due by 5 p.m. submitter's local time):

- September 20, 2017 - September 27, 2017  MEDIUM Projects
- September 20, 2017 - September 27, 2017  LARGE Projects
- November 01, 2017 - November 15, 2017  SMALL Projects

Synopsis of Program:

CISE's Division of Information and Intelligent Systems (IIS) supports research and education projects that develop new knowledge in three core programs:

- The Cyber-Human Systems (CHS) program;
- The Information Integration and Informatics (III) program; and
- The Robust Intelligence (RI) program.

Proposals in the area of computer graphics and visualization may be submitted to any of the three core programs described above.

Proposers are invited to submit proposals in three project classes, which are defined as follows:

- Small Projects - up to $500,000 total budget with durations up to three years;
- Medium Projects - $500,001 to $1,200,000 total budget with durations up to four years; and
- Large Projects - $1,200,001 to $3,000,000 total budget with durations up to five years.

A more complete description of the three project classes can be found in Section II. Program Description of this document.
NSF: Computer and Network Systems (CNS): Core Programs


Submission Window Date(s) (due by 5 p.m. submitter's local time):

- September 20, 2017 - September 27, 2017 MEDIUM Projects
- September 20, 2017 - September 27, 2017 LARGE Projects
- November 01, 2017 - November 15, 2017 SMALL Projects

Synopsis of Program:

CISE's Division of Computer and Network Systems (CNS) supports research and education projects that develop new knowledge in two core programs:

- Computer Systems Research (CSR) program; and
- Networking Technology and Systems (NeTS) program.

Proposers are invited to submit proposals in three project classes, which are defined as follows:

- Small Projects - up to $500,000 total budget with durations up to three years;
- Medium Projects - $500,001 to $1,200,000 total budget with durations up to four years; and
- Large Projects - $1,200,001 to $3,000,000 total budget with durations up to five years.

Workshops and Conferences

(1) Biostatistics in the Modern Computer Era

The Division of Biostatistics at the Medical College of Wisconsin announces a conference entitled "Biostatistics in the Modern Computing Era" co-sponsored by the Division, the ASA Section on Bayesian Statistical Science and the Wisconsin Chapter of the ASA. It will include invited presentations by leading statisticians from both the Bayesian and frequentist perspectives. Presentations will focus on clinical trials, high-dimensional statistics, survival analysis, precision medicine and population health. A grant-writing workshop and a Bayesian additive regression trees short course will also be presented. The conference will be held September 28-30, 2017 at the Medical College of Wisconsin in Milwaukee, WI. Travel awards may be available for PhD students and junior faculty.

The autumn weather in Milwaukee is historically very pleasant and enjoyable. Beer-making, bratwurst and Oktoberfest are great German traditions brought to Milwaukee and Wisconsin by waves of immigrants. There will be social events featuring beer, bratwurst and biostatistics hosted at idyllic beer gardens on the "cheese coast". The main event will include an exclusive Oktoberfest engagement of polka-palooza with The Polkaholics led by Dandy Don Hedeker with a guest appearance by fellow Imposterior Brad Carlin.

For more information, see www.mcw.edu/biostatmcw. To register, please visit www.mcw.edu/Biostatistics-National-Conference/...
ASA Philadelphia Chapter Big Data Symposium

The ASA Philadelphia Chapter would like to solicit talks for their upcoming Big Data Symposium which will be hosted at the University of Pennsylvania. The date is still to be determined but will ideally be this October or November. If you are interested in being a presenter please submit an abstract. Your abstract can be as formal or informal as you like but please include:

- A description of the talk/presentation you would like to give.
- The ideal time frame for such a talk.
- Any ideal or non-ideal dates in October/November.

Please be as open-minded and creative as possible with your submissions. Are you in academia? Then come discuss your research and findings with your like-minded peers. Are you in industry? Then please share some of the cutting edge work that you, your colleagues, or employers are doing in the field of big data. Or share some of your unsolved problems with the some of your fellow problem solvers. Are you an educator? Then come talk about how your pedagogical practices have adapted to better serve our modern day statistical world. Also, please consider submitting an informative/instructional talk on methods or techniques that are not necessarily "novel" but, nonetheless, useful. Interesting approaches to data visualization might be one such example.

At the end of the day, if it is interesting to you then it is probably also interesting to your colleagues.

Please send your submissions to amstatphiladelphia@gmail.com for consideration.

Awards

No new listings this week.

Other opportunities or information

No new listings this week.