

NISS/SAMSI Affiliate Update

October 2014

Sign Up Now

For Analyzing Complex Survey Data with Missing Item Values

If you haven't already registered, this is a reminder that NISS is holding a workshop in Washington DC on October 17 from 8:30am - 5pm on **Analyzing Complex Survey Data with Missing Item Values**. The workshop will be held at the Bureau of Labor Statistics Conference Center. **Deadline for registering for this affiliates workshop is October 15.** [Click here to register](#). To allow for registration with BLS Security, please bring your photo ID.

Four interactive sessions will be held. The first focuses on Conceptual and Methodological Issues for Incomplete Data and Imputation. The second session will cover case studies from federal agencies. The third session will explore new research ideas and the last session will be a working session entitled "Challenging Problems with Incomplete Data and Imputation in Large-scale Federal Surveys." More details [can be found here](#).

SAMSI's 2015-16 Programs

SAMSI has announced its programs for 2015-16. [Nominations are now open for an affiliate representative to join with the program leaders committee for each of these programs.](#) Contact [Sujit Ghosh at ghosh@samsi.info](mailto:ghosh@samsi.info).

Challenges in Computational Neuroscience (CCNS)

The CCNS program will develop mathematical and statistical methods for neuroscience applications. These will be used to understand the underlying mechanisms that bridge multiple spatial and temporal scales, linking the activity of individual components (e.g., molecular biology, genetics, and neuron networks), and their interactions to the complex dynamic behavior of the brain and nervous system. Brain theory, modeling, and statistics will be essential to turn data into better understanding of the brain. The CCNS program will address the underlying methodological, theoretical, and computational challenges. Probability and statistics, dynamical systems, geometry, and computer science will be combined with respect to theory and in applications.

The opening workshop is scheduled for August 17-21, 2015. Go to the SAMSI website for details in the near future.

Program on Statistics and Applied Mathematics in Forensic Science (Forensics)

SAMSI's program on Forensics is focused on strengthening the statistical and applied mathematical foundations of forensic science. Forensic science is fundamentally based upon statistical comparisons of the characteristics of materials left at a crime

ITSEW Meeting at BLS

The 8th International Total Survey Error Workshop (ITSEW 2014) is being held in Washington DC at the Bureau of Labor Statistics October 1-3. More than 70 people have registered for this event.

The theme of the 2014 workshop is **Total Survey Error: Fundamentals and Frontiers**.

Like previous ITSEWs, this year's gathering seeks to foster an exchange of ideas and preliminary research findings toward a better understanding of total survey error.

Paul Biemer of RTI International and the University of North Carolina is presenting a short course on the Total Survey Error Paradigm in Practice.

Next year's ITSEW will take place in Baltimore, Maryland and is planned for September 19-22. For details, [click here](#).

scene to characteristics of possible sources or suspects. These comparisons are often acknowledged by forensic scientists to be highly subjective. A series of reports by the National Research Council (NRC) has raised deep questions about major forms of forensic evidence and has made a clear case for heeding statistical underpinnings for forensic procedures. Evidence from a crime include fingerprints, patterns and impressions (footprints and tire tracks), toolmarks and firearms, hair, fibers, documents, paints and coatings, bloodstains, and fire debris. Working groups will focus on statistical issues for pattern evidence, for bias, for imaging, and for quality control for forensics laboratories. Crosscutting challenges are to identify where statistics can have a quick impact, and to educate mathematical scientists about forensics and forensic scientists about the mathematical sciences.

Opening workshop is August 31-September 4. Look at the SAMSI website for more details.

Postdoc applications for these two programs can be submitted to: mathjobs.org, [SAMSI PD2015 Job #6133](#).

SAMSI Events

Undergraduate Workshop

When: October 23-24, 2014

Where: RTP, NC

Deadline to Apply: **This workshop is full.**

This workshop will focus on bioinformatics.

[Details here.](#)

Undergraduate Workshop

When: February 26-27, 2015

Where: RTP, NC

Deadline to Apply: **January 9, 2015.**

This workshop will focus on ecology.

[Details here.](#)

NIMBioS Graduate Workshop on Current Trends in Statistical Ecology

When: April 15-17, 2015

Where: Knoxville, TN

Deadline to Apply: **December 1, 2014**

This workshop will give participants the opportunity to learn about the latest trends in statistical ecology.

Undergraduate Modeling Workshop

When: May 17-22, 2015

Where: NCSU, Raleigh, NC

Deadline to Apply: TBA

More details to come soon.

Industrial Mathematics & Statistical Modeling Workshop

When: July 12-22, 2015

Where: NCSU, Raleigh, NC

Deadline to Apply: **April 15, 2015**

More details to come soon.

NISS and SAMSI

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