Schedule of Events

Friday, October 30th, 2015
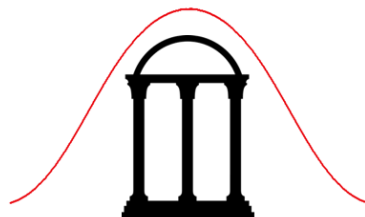
Georgia Center for Continuing Education

8:00 - 9:00	Registration
9:00 - 9:15	Inauguration
9:15 - 9:30	Statistics in Georgia - past, present , and future
9:30 - 10:30	Keynote Lecture: Professor Robert Tibshirani
10:30 - 11:00	Break
11:00 - 12:30	Technical Session
12:30 - 1:45	Lunch break
1:45 - 3:15	Round-table discussions
1:45 - 3:15	Industry presentations
3:15 - 5:15	Poster presentations
5:15 - 5:45	Open floor, round-table summaries
5:45 - 6:00	Closing remarks and award ceremony

Biographical Sketch

Robert Tibshirani is a Professor at Stanford University. Tibshirani received the COPSS Presidents' Award in 1996. He is a Fellow of the Institute of Mathematical Statistics, the American Statistical Association, and a (Canadian) Steacie award winner. He was elected a Fellow of the Royal Society of Canada in 2001 and a member of the National Academy of Sciences in 2012. Dr. Tibshirani's main interests are in applied statistics, biostatistics, and data mining. He is co-author of the books: *Generalized Additive Models* (with T. Hastie), *An Introduction to the Bootstrap* (with B. Efron), and *Elements of Statistical Learning* (with T. Hastie and J. Friedman). His current research focuses on problems in biology and genomics, medicine, and industry.

THE UNIVERSITY OF GEORGIA

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Georgia Statistics Day

Friday, October 30th, 2015

Georgia Center for Continuing Education
Athens, Georgia

This year's distinguished guest speaker is

Dr. Robert Tibshirani
Professor of Health Research and Policy & Statistics, Stanford University
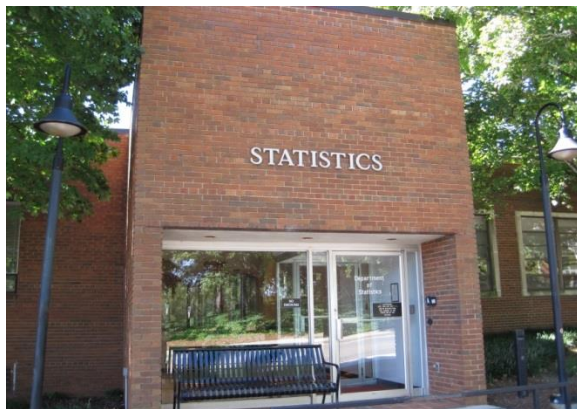
Georgia Statistics Day Overview

On behalf of the participating departments, I am pleased to announce Georgia Statistics Day, a new annual event designed to promote interdisciplinary statistics research among the flagship academic institutions of the state of Georgia, namely the University of Georgia, Georgia Institute of Technology, and Emory University. This year marks the inaugural Georgia Statistics Day, which will be hosted by the University of Georgia on October 30, 2015.

Our goal in establishing Georgia Statistics Day was to emphasize mentoring of junior researchers and interaction between industry and academia. This one-day conference will enable junior researchers, including graduate students, to present their work, to see state of the art developments in research on statistics and related scientific areas, and to interact with some of the key players in the area. An informal setting is provided to encourage the free exchange of ideas and to stimulate research in topics of practical relevance to science and industry.

We hope you will join us in making this new venture a success!

Nicole Lazar, Ph.D.
Professor and Interim Department Head
Department of Statistics

Keynote Speaker

Dr. Robert Tibshirani, Professor of Statistics and Health Research & Policy at Stanford University, will present the inaugural Georgia Statistics Day Lecture. The lecture will be held at the Georgia Center for Continuing Education located at 1197 South Lumpkin Street, Athens, Georgia on October 30th, 2015.

Title: The Lasso: An Application to Cancer Detection and Some New Tools for Selective Inference

Outline:
First, I will review the lasso method and show an example of its utility in cancer diagnosis via mass spectometry. Then I will consider the testing the significance of the terms in a fitted regression, fit via the lasso or forward stepwise regression. I will present a novel statistical framework for this problem, one that provides p-values and confidence intervals that properly account for the inherent selection in the fitting procedure. I will give other examples of this procedure, including graphical models and PCA, and describe an R language package for its computation.

This work is joint with Richard Lockhart (Simon Fraser University), Jonathan Taylor (Stanford Univ) and Ryan Tibshirani (Carnegie Mellon University) and involves many other students at Stanford.

The Location

The inaugural Georgia Statistics Day event will be held at the UGA Hotel and Conference Center located at:

1197 South Lumpkin Street
Athens, GA 30602

The fees for Georgia Statistics Day are as follows:

- Participant Fee on or before 9/23/15: $100
- Participant Fee After 9/23/15: $150
- Student Fee on or before 9/23/15: $50
- Student Fee After 9/23/15: $100

If your organization is a NISS affiliate, you may use your NISS Affiliate Award Funds (AAF) (subject to your organization's rules) to cover your Georgia Statistics Day 2015 expenses.

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