



# Section on Statistical Genetics

School of Public Health, Department of Biostatistics

NSF-funded Short Course  
Registration Form

## Short Course on Statistical Genetics and Statistical Genomics

July 21 - 25, 2008

Birmingham, AL

Focusing on the analysis of complex traits characterized by quantitative variation, this five-day course will offer an interactive program to enhance researchers' ability to understand & use statistical genetic methods, as well as implement & interpret sophisticated genetic analyses. Including hands-on computer demonstrations and practice, the course will be useful to a wide range of investigators studying the genetics of plants, model organisms, livestock, wildlife, and humans, helping investigators to better understand, use, and, in some cases even undertake research on, statistical genetic methods. Statistical genetic methodology is critical to advancing basic biology which is, in turn, critical to fields like genetic epidemiology, evolutionary biology, ecology, pest management, marine biology, medicine, forestry, and agriculture.

### Speakers

David B. Allison, Ph.D.

UAB

Xiangqin Cui, Ph.D.

UAB

Grier Page, Ph.D.

UAB

Hemant K. Tiwari, Ph.D.

UAB

Nengjun Yi, Ph.D.

UAB

Kui Zhang, Ph.D.

UAB

Atul Butte, Ph.D

Robert Elston, Ph.D

Warren Ewens, Ph.D.

Yun-Xin Fu, Ph.D.

Carl Langefeld, Ph.D

Sandra Rodriguez-Zas, Ph.D

Guilherme Rosa, Ph.D

Brian Yandell, Ph.D.

Bruce Walsh, Ph.D.

Stanford Univ

Case Western Reserve Univ

Univ Pennsylvania

Univ Texas - Houston

Wake Forest Univ

Univ Illinois - Urbana

Univ Wisconsin - Madison

Univ Wisconsin - Madison

Univ Arizona - Tucson

### Topics

Case-Control Design & Stratification

Binary TDT/ Quantitative TDT

Haplotyping & Fine Mapping

Microarray Analysis: Pre-Processing, Design, Inference

Comparative Genomics

Experimental Cross QTL analysis

Fine-mapping in Intercross

Multiple QTL analysis & R/qtlbim

Detecting Selection with Molecular Data

Genome-wide Marker assisted selection

Molecular signature selection detection

Methods & Implications Integrative Biology

GWAS, CNVs, & Pathway Analysis

Structured Association Testing

### Software

SAGE, Genehunter, MERLIN, FBAT, QTL Express, R/qtlbim,

PLINK, LAMP, HAPLOVIEW, HAPLORE, PHASE, Eigenstrat,

HDBSTAT!, Bioconductor Suite, Power Atlas

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## Short Course Registration Form

July 21 - 25, 2008 [Doubletree Hotel, Birmingham, AL](#)

To register, please send the following to [rsarver@uab.edu](mailto:rsarver@uab.edu)

1. completed registration form
2. current curriculum vitae

**Attendance is limited.** Please apply prior to Mon 6/2/2008. Accepted applicants will be notified by Fri 6/6/2008. The first 40 applicants receive a copy of each book: *DNA Microarrays and Related Genomics Techniques* (Allison et al.) & *Genetics and Analysis of Quantitative Traits* (Lynch & Walsh). Women, members of underrepresented minority groups, and individuals with disabilities are strongly encouraged to apply.

**Travel scholarships are available** with preference given to graduate students & post-doctoral fellows.

**Registration fee** (does not include travel or lodging, **does** include Thursday's on-site dinner):

- \$550 - academic, government, and non-profit organizations
- \$2,550 - for-profit organizations

**Need more information?** Contact Richard Sarver at 205.975.9169 or [rsarver@uab.edu](mailto:rsarver@uab.edu).

<b>Name</b>	_____	<b>Degree</b>	_____
<b>Position</b>	_____	<b>Institution</b>	_____
<b>Address</b>	_____		
<b>City State Zip</b>	_____	<b>Country</b>	_____
<b>Phone</b>	_____	<b>Fax</b>	_____
<b>Email</b>	_____	<b>Website</b>	_____

Want to be considered for a travel scholarship?  Yes  No

**Sex**  Male  Female

**Race/Ethnic (All that apply)**

<input type="checkbox"/> American Indian or Alaskan Native	<input type="checkbox"/> Asian or Pacific Islander
<input type="checkbox"/> Black/African American	<input type="checkbox"/> White/European
<input type="checkbox"/> Hispanic/Latino	<input type="checkbox"/> Other (please specify)

**Course Website:** <http://www.soph.uab.edu/ssg/default.aspx?id=1936>



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