

# MATHEMATICS 596A

## Biomathematics Seminar

Spring 2002

**Overview.** The Biomath Seminar for the Spring Semester will be focused on preparations for a mini-conference on April 5 and 6 with the Statistical Genetics Group at North Carolina State University.

Each of you will be asked to make a presentation. There are three types of presentations that I can imagine (You may think of others.)

- your own research issues in statistics or genetics,
- biological questions informed by genetics,
- statistics background.

The speakers from North Carolina State University are:

Spencer V. Muse - Statistical methods and software tools for the analysis of molecular sequences, especially methods for simultaneously analyzing multiple gene sequences from multiple species using a comparative genomics approach.

Dahlia Nielsen - Techniques for fine-scale genetic mapping in human populations based on utilizing population history (e.g. hereditary diseases) to help locate genes involved in different phenotypes.

Sharon Browning - Development of algorithms for calculation of probabilities for pedigree data, Monte Carlo techniques, models for the spatial distribution of crossovers along chromosomes at meiosis.

Zhao-Bang Zeng - Theory and statistical methods for mapping quantitative trait loci and for studying genetic architecture of quantitative traits through linkage or linkage disequilibrium analysis in experimental and natural populations

**Day to Day Operations.** The course meets on Tuesdays at 3:30 PM in Economics 200. The times for the miniconference talks will be announced later.

If you need to contact me, write me electronically at [jwatkins@math.arizona.edu](mailto:jwatkins@math.arizona.edu), call me at 621-5245, or drop by my office Math 520. My office hours are 12 to 1 on Mondays and 2 to 3 on Wednesdays in the Mathematics Building, Room 226.

**Evaluation of Students.** We will evaluate your work via class participation, presentations and report.

Best wishes to you for a good semester in this course and in all your other activities.

Joe Watkins

## Seminar Schedule

DATE	TOPIC	SPEAKER
15-Jan		
29-Jan		
5-Feb		
12-Feb		
19-Feb		
26-Feb		
5-Mar		
19-Mar		
26-Mar		
2-Apr		
5&6-Apr	BMPI-StatGen Meeting	Miniconference