

University of Central Florida

Department of Mathematics

RESEARCH OPPORTUNITIES IN STATISTICS

Research in *Statistics* involves developing models and methods to facilitate statistical analysis studies encountered in many important scientific research fields, such as medical research, epidemiology, social and behavioral sciences, etc. There are excellent job opportunities both in academia and industry for the students holding Ph.D. in Statistics or holding Ph.D. in Mathematics with specialized research in Statistics. Working on statistical research requires the combination of mathematical training, statistical concepts and computation skills. Good mathematical training and good communication and writing skills are now typically expected from the new generation of statisticians. Graduate students interested in statistical research for their dissertation should consider taking the following courses:

- **Mathematical Statistics** (MAP 6111)
- **Measure and Probability** (MAP 6110)
- **Topics in Advanced Calculus** (MAA 5210)
- **Real Analysis** (MAA 6306)
- **Optimization Theory** (MAP 6207)

Professor Ren has been actively working on statistical research with the main focus on applications in biomedical research. She currently has several research collaborators, including some from College of Medicine at UCF. Professor Ren's research has been supported by research grants from the *National Science Foundation* and *National Institutes of Health*. As Fall 2009, she has funds to support one Ph.D. student during the summer for the next few years. Please contact her (jren@mail.ucf.edu) if interested.