

DEPARTMENT OF MATHEMATICS AND STATISTICS

MISSISSIPPI STATE UNIVERSITY

## COLLOQUIUM

### **A view from the top (or) from the bottom up: An OverUnderView of Multilevel Modeling**

MICHAEL GRISWOLD, PHD

Director, Center of Biostatistics & Bioinformatics

University of Mississippi Medical Center

**Friday, November 18 at 4:00 pm**

**Allen 14**

**Abstract.** This seminar will give an overview of "multilevel statistical models" and their application in public health and biomedical research. We will discuss multilevel models as regression models in which the predictor and outcome variables can occur at multiple levels of aggregation: for example, at the personal, family, neighborhood, community and regional levels. These models are used to ask questions about the influence of factors at different levels and about their interactions while accounting for clustering of outcomes within and across levels. In this seminar, we will focus on the main ideas and on examples of multi-level models from public health research.

There will be a reception for Dr. Griswold at 3:30 in Allen 467.

Contact Haimeng Zhang, [hzhang@math.msstate.edu](mailto:hzhang@math.msstate.edu) or (662) 325-7146, for additional information.