

# SCIENCE SEMINAR

Thursday, December 13 - Carson Taylor Hall 322

**Ms. Jiaying Weng**

Graduate Teaching Assistant, University of Kentucky  
Statistics Faculty Candidate

Presenting

**“Sufficient Dimension Reduction: Sliced Inverse Regression  
and Fourier Transform Approach”**

The big data era poses great challenges as well as opportunities for researchers to develop efficient statistical approaches to analyze massive data. Sufficient dimension reduction (SDR) is such an important tool in modern data analysis and has received extensive attention in both academia and industry. This talk will introduce the SDR approach and discuss an application to health insurance coverage based on the US Census Bureau’s 2015 Planning Database.

**Come at 3:30pm for refreshments, speaker at 4:00pm**