Schedule
EDMS Research Day
March 25, 2016
1100 Tawes Building

8:30 – 9:00am  Continental Breakfast

9:00 – 10:00  Session 1: The Importance of Proper Model Specification
Chair, Jeffrey Harring

Error Covariance Structure in a Latent Quadratic Effects Model
Kristina Cassiday, Daniel Lee, and Greg Hancock

ANCOVA versus ANOVA: A Comparison of Bias and Precision When Groups Are Not Equivalent at Baseline
Alyson Burnett

Effects of Measurement Error in Assignment Variable on Regression Discontinuity Treatment Estimates
Monica Morell and Ji Seung Yang

Comparing Goodness-of-fit Indices Based on Ungrouped Data in Logistic Regression: A Simulation Study
Jinwang Zou

10:00 – 10:15  Break

10:15 – 11:15  Session 2: Models to Detect Individual Differences and Group Processes
Chair, Tracy Sweet

Fairness in Automated Scoring: Screening Features for Subgroup Differences
Ji An, Vincent Kieftenbeld, and Raghuveer Kanneganti

Social Network Modeling of 5th Grade Students’ Peer Relationships
Casey Archer

Evaluate Subgroup Influence on Individual Behavior
Qiwen Zheng

Aberrant Behavior Detection Based on a Multivariate Mixture Modeling Approach
Kaiwen Man

11:15 – 11:30  Break
11:30 –12:30  Session 3: Issues Related to Modeling Clumped and/or Survey Data  
**Chair, Ji Seung Yang**

- Modeling Learning Growth with a Cross-Classified Multilevel IRT Model  
  Chen Li and Hong Jiao

- Confidence Intervals for Intraclass Correlations in Multilevel Item Factor Models  
  Xiaying Zheng

- Corporal Punishment: An Examination of School-level Components  
  Alison Preston

- Choice of Sampling Weight for Longitudinal Modeling of Panel Data  
  Daniel Lee, Jeff Harring, and Laura Stapleton

12:30 –2:00  LUNCH  
*(Graduate Student Space in Benjamin Building; note, faculty go to Dept Assembly from 1-2)*

2:15 – 3:15  Session 4: Polytomous Items and Dependence Issues in Measurement Models  
**Chair, Hong Jiao**

- An Overview of Structural Equation Modeling with Categorical Data. What Works?  
  Jordan Prendez

- A Conditional IRT model for Directional Local Item Dependence in Multipart Items  
  Dandan Liao, Hong Jiao, and Robert W. Lissitz

- Comparison of Classification Accuracy Based on Item Response Theory (IRT) and Measurement Decision Theory on Tests with Polytomous Items  
  Yating Zheng and Hong Jiao

- A Combination of Diagnostic Classification Model and IRT Model with Testlet Effect  
  Manqian Liao

3:15 – 3:30  Break

3:30 – 4:30  Session 5: Issues in Measurement of Health, Academic, and Team Constructs  
**Chair, Gregory Hancock**

- Measurement of Transactive Memory Systems  
  Kylie Goodell King

- Measures of Health Disparity in Complex Samples  
  Meng Qiu

- Small-Sample MIRT Calibration and Model Selection using the Grit Data  
  Wanyi Liu, Ji Seung Yang, Allan Wigfield, and Katherine Muenks

- The Healthy Eating Score: A Five-Item Measure of Diet Quality  
  Sam Golenbock, Josh Kazman, E. Moylan, B. Kupchak, and P. Deuster

4:30pm  Concluding Comments: *Gregory Hancock*