

*Advances in Multilevel Modeling for Educational Research:  
Addressing Practical Issues Found in Real-World Applications*

**Pre-Conference Workshop**

**Cross-Classified and Multiple Membership Models  
S. Natasha Beretvas, University of Texas, Austin**

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**Thursday, November 13**

8:00-9:00am	Registration and Continental Breakfast, Benjamin Banneker (2 <sup>nd</sup> floor)
9:00am-12:00pm	Workshop: Section I
12:00-1:00pm	Lunch on your own
1:00-5:00pm	Workshop: Section II

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**Conference Overview and Schedule**

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**Day 1: Friday, November 14**

8:00-9:00am Registration and Continental Breakfast, Colony Ballroom (2<sup>nd</sup> floor)

**Random Effects: Handling Dependent Residuals and Best Practices for Residual Diagnostics**

- 9:00-9:45am **Avoiding Omitted-Variable Bias in Multilevel Models**  
Sophia Rabe-Hesketh, Keynote Address
- 9:55-10:40am **Best Practices in Residual Diagnostics and Model Assessment in a Multilevel Framework**  
Ann O'Connell, D. Betsy McCoach & Gloria Yeomans-Maldonado

10:40-10:50am Mid-Morning Break

**Multilevel Measurement Models:  
Handling Testlet and Content Area Dependence and Measurement Error in Predictors**

- 10:50-11:35am **Multilevel Cross-Classified Testlet Model for Complex Item and Person Clustering in Item Response Modeling**  
Hong Jiao, Akihito Kamata & Chao Xie
- 11:45am – 12:30pm **Handling Measurement Error in Predictors with a Multilevel Latent Variable Plausible Values Approach**  
Ji Seung Yang & Michael Seltzer

12:30-2:00pm Lunch on Your Own

**Using Cross-Classified Models to Handle Longitudinal Data Complexities**

- 2:00-2:45pm **Bayesian Analysis of Multiple Indicator Growth Modeling Using Random Measurement Parameters Varying across Time and Person**  
Bengt Muthén & Tihomir Asparouhov
- 2:55-3:40pm **Everything I Know I Learned in Kindergarten: Potential Teacher Effects in Longitudinal Student Outcome Data**  
Paras Mehta & Yaacov Petscher
- 3:50-4:35pm **A Model for Cross-Classified Nested Repeated Measures Data**  
Jeffrey Harring, S. Natasha Beretvas & Anita Israni

5:00-7:00pm **Reception & Poster Session, Atrium (1<sup>st</sup> floor)**

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**Day 2: Saturday, November 15**

8:00-9:00am Continental Breakfast, Colony Ballroom (2<sup>nd</sup> floor)

**Causal Inferences and Advanced Psychometric Models:  
Social Networks, Handling Measurement Error, and  
Heterogeneity within Clusters**

- 9:00-9:45am **On the Importance of Advanced Psychometrics in Multi-Level Impact Evaluation Studies**  
Li Cai & Kilchan Choi
- 9:55-10:40am **Mixture Modeling Strategies for Causal Inference with Multilevel Data**  
Jee-Seon Kim, Peter Steiner & Wen-Chiang Lim
- 10:50-11:35am **Hierarchical Mixed Membership Stochastic Block Model with Network-Level Covariates**  
Tracy Sweet & Qiwen Zheng

11:35am -1:00pm Lunch on Your Own

**Matching Models to Longitudinal Data's Complexity:  
Basing Psychometrics on Longitudinal Data, Handling Missing Multilevel Data and  
Choice of Sampling Weights**

- 1:00-1:45pm **The Disjoint Between Measurement and Modeling in Longitudinal Research**  
Daniel Bauer & Patrick Curran
- 1:55-2:40pm **Incomplete Multilevel Data: Problems and Solutions**  
Joop Hox, Stef van Buuren & Shahab Jolani
- 2:50-3:35pm **Sampling Weight Considerations for Multilevel Modeling of Panel Data**  
Laura Stapleton, Jeffrey Harring & Daniel Lee

3:45-4:30pm **Conference Summary and Reflection: Moderated Q & A**