



Monday, 20 July

9am **Short Course #1: Part I**
B145, The Commons

Introduction to AI-based Automated Item Generation and Automated Scoring
» Dr. Alina von Davier (Duolingo), Dr. Duanli Yan (Measurement Incorporated)

9am **Short Course #2: Part I**
B146, The Commons

Psychometric Network Modeling
» Professor Sacha Epskamp (National University of Singapore), Professor Adela Isvoranu (National University of Singapore)

9am **Short Course #3**
B147, The Commons

Data-Driven Learning of Attribute Hierarchy and Q-Matrix for Cognitive Diagnostic Models
» Professor Yinghan Chen (University of Nevada, Reno), Dr. Xue Wang (Northeast Normal University), Professor Shiyu Wang (University of Georgia)

12:30pm **Lunch (on your own)**
Local establishments

1:30pm **Short Course #1: Part II**
B145, The Commons

Introduction to AI-based Automated Item Generation and Automated Scoring
» Dr. Alina von Davier (Duolingo), Dr. Duanli Yan (Measurement Incorporated)

1:30pm **Short Course #2: Part II**
B146, The Commons

Psychometric Network Modeling
» Professor Sacha Epskamp (National University of Singapore), Professor Adela Isvoranu (National University of Singapore)

2pm **Short Course #4**
B147, The Commons

Analyzing Item Response Data Using a Latent Space Modeling Approach in R
» Professor Minjeong Jeon (United States) - University of California, Los Angeles

Tuesday, 21 July

9am **Welcome Remarks**
Auditorium, Baekyang Hall
Chaired by: Prof. Steven Culpepper (United States) and Dr. Ji Hoon Ryoo (Korea, Republic of)

9:15am **Keynote Speaker**
Auditorium, Baekyang Hall
Chaired by: Prof. Steven Culpepper (United States)

Global Psychometric Challenges in Educational and Workforce Assessment: Policy, Technical, and Population Perspectives
» Professor Michael T. Nettles (United States) - Morgan State University

10:15am **Refreshment Break**



Continued from Tuesday, 21 July	
10:30am	<p>Invited Speaker <i>Auditorium, Baekyang Hall</i> Chaired by: Prof. Yunxiao Chen (United Kingdom)</p> <p>Statistical Analysis of Large-scale Item Response Data under Measurement Non-invariance » Professor Jing Ouyang (Hong Kong) - University of Hong Kong</p>
10:30am	<p>Invited Speaker <i>Grand Ballroom, The Commons</i> Chaired by: Dr. Ji Hoon Ryoo (Korea, Republic of)</p> <p>How is the Virtuous Cycle of Knowledge Achieved Across the Spectrum of Quantitative Research » Professor Sang-jin Kang (Korea, Republic of) - Yonsei University</p>
11:15am	<p>Lunch (on your own) <i>Local establishments</i></p>
12:45pm	<p>Symposium: Rethinking Estimation: New Perspectives for Measurement, Modeling, and Inference <i>Auditorium, Baekyang Hall</i> Chaired by: Prof. Jolynn Pek (United States)</p>
12:45pm	<p>Scoring and Reliability with Omega from Estimated Measurement Models » Prof. Alberto Maydeu-Olivares (United States) - University of South Carolina, Prof. Jolynn Pek (United States) - The Ohio State University, Dr. Yang Liu (United States) - University of Maryland, Prof. Terrence Jorgensen (Netherlands) - University of Amsterdam</p>
1pm	<p>Equation-by-Equation Estimation of SEMs » Prof. Alberto Maydeu-Olivares (United States) - University of South Carolina, Prof. Yves Rosseel (Belgium) - Ghent University</p>
1:15pm	<p>Model Identification in CFA » Dr. Cathy (Xijuan) Zhang (Canada) - York University, Dr. Hao Wu (United States) - Vanderbilt University, Dr. Victoria Savalei (Canada) - University of British Columbia, Mr. Lianjie Shi (Canada) - University of British Columbia</p>
1:30pm	<p>Classification Trees for Method Selection in Tetrachoric Correlation Estimation » Ms. Jeongwon Choi (United States) - Vanderbilt University, Dr. Hao Wu (United States) - Vanderbilt University</p>
1:45pm	<p>Two-Stage Estimation of Latent Variable Regression Models: A General, Root-N Consistent Solution » Dr. Yang Liu (United States) - University of Maryland, College Park, Ms. Xiaohui Luo (China) - Beijing Normal University, Mr. Jieyuan Dong (China) - Beijing Normal University, Ms. Youjin Sung (United States) - University of Maryland, College Park, Dr. Yueqin Hu (China) - Beijing Normal University, Prof. Hongyun Liu (China) - Beijing Normal University, Dr. Daniel Bauer (United States) - University of North Carolina at Chapel Hill</p>
12:45pm	<p>Symposium: Culturally Responsive Considerations for Scale Development <i>B125, Ballroom, The Commons</i> Chaired by: Dr. Tamara Bertrand Jones (United States)</p>
12:45pm	<p>Culturally Responsive Considerations for Scale Development » Dr. Cherie Avent (United States) - University of Illinois Urbana-Champaign, Dr. Aixa Marchand (United States) - University of Illinois Urbana-Champaign</p>
1pm	<p>Culturally Responsive Considerations for Scale Development » Dr. Courtney Stone (United States) - University of Illinois Urbana-Champaign</p>
1:15pm	<p>Developing the Culturally Responsive Advising Scale-Black Americans » Dr. Tamara Bertrand Jones (United States) - University of Illinois Urbana-Champaign, Dr. Helen Neville (United States) - University of Illinois Urbana-Champaign, Dr. Nia Mitchell (United States) - University of Illinois Urbana-Champaign</p>



Continued from **Tuesday, 21 July**

1:30pm **Culturally Responsive Considerations for Scale Development**
 » Dr. Tamara Bertrand Jones (United States) - University of Illinois Urbana-Champaign, Dr. Cherie Avent (United States) - University of Illinois Urbana-Champaign, Dr. Aixa Marchand (United States) - University of Illinois Urbana-Champaign, Dr. Nia Mitchell (United States) - University of Illinois Urbana-Champaign, Dr. Courtney Stone (United States) - University of Illinois Urbana-Champaign, Dr. Helen Neville (United States) - University of Illinois Urbana-Champaign, Dr. Malaika McKee (United States) - University of Illinois Urbana-Champaign

12:45pm **Symposium: Innovations for Complex Data**
B126, Ballroom, The Commons
 Chaired by: Dr. Shiyu Wang (United States)

12:45pm **Teamwork Cognitive Diagnostic Modeling for Dyadic Agreement-Accuracy Responses**
 » Prof. Peida Zhan (China) - Zhejiang Normal University, Ms. Gaohong Chu (China) - Zhejiang Normal University, Mr. Qipeng Chen (United States) - University of Alabama

1pm **A Bayesian Framework for Q-Matrix Estimation in Cognitive Diagnostic Models Leveraging Multimodal Assessment Data**
 » Dr. Xue Wang (China) - Northeast Normal University, Ms. Yaxuan Yang (United States) - University of Georgia, Mr. Cheng Tang (United States) - University of Georgia, Dr. Yinghan Chen (United States) - University of Nevada, Dr. Shiyu Wang (United States) - University of Georgia

1:15pm **General Fluency Model Incorporating Response Times Within the Cognitive Diagnostic Model**
 » Ms. Nohwon Park (United States) - University of Georgia, Dr. Yu Bao (United States) - James Madison University, Dr. Zichu Liu (United States) - Georgia State University, Dr. Shiyu Wang (United States) - University of Georgia

1:30pm **Sequential Cognitive Diagnostic Modeling for Functional Assessment in Rehabilitation**
 » Dr. Zichu Liu (United States) - Georgia State University, Dr. Houping Xiao (United States) - Georgia State University, Dr. Shiyu Wang (United States) - University of Georgia, Dr. Yusen Xia (United States) - Georgia State University, Mx. Pat Barrett (United States) - Shepherd Center, Dr. Raeda Anderson (United States) - Shepherd Center

1:45pm **Bayesian Zero-Inflated Unipolar Mixture IRT Model with Covariate-Dependent Latent Classification**
 » Mr. Nasser Al Ali (United States) - University of Nevada, Dr. Yinghan Chen (United States) - University of Nevada, Dr. Mihye Ahn (United States) - University of Nevada

12:45pm **AI, IRT, and Raters**
B145, The Commons
 Chaired by: Prof. Eun Hye Ham (Korea, Republic of)

12:45pm **From Text to Parameters: Evaluating Semantic Similarity for Cross-Instrument IRT Linking Across Depression Measures**
 » Ms. Savira Nadela (United States) - Stanford University, Ms. Hansol Lee (United States) - Stanford University, Ms. Nishka Jain (United States) - Stanford University, Ms. Xingyi Zhang (United States) - Stanford University, Prof. Benjamin Domingue (United States) - Stanford University

1pm **Latency-Response Theory Model Evaluating LLM via Response Accuracy and Chain-of-Thought Length**
 » Mr. Zhiyu Xu (United States) - Columbia University, Dr. Jia Liu (China) - Columbia University, Prof. Yixin Wang (United States) - University of Michigan, Ann Arbor, Dr. Yuqi Gu (United States) - Columbia University

1:15pm **Item Parameter Prediction via ICC-Informed Deep Learning and LLM Features**
 » Mr. Sandeep H (India) - ETS



Continued from Tuesday, 21 July

1:30pm **Developmental Sensitivity vs. Drift Resistance: Comparing Teacher and LLM Scoring in Longitudinal Constructed-Response Assessment**
 » [Prof. Eun Hye Ham](#) (Korea, Republic of) - Kongju National University, Mrs. Yun-Kyung Kim (United States) - University of California, Los Angeles

1:45pm **Rater Disagreement in Essay Scoring: Exploring Linguistic and Semantic Predictors**
 » Mr. Hoon Kim (Korea, Republic of) - Korea Institute for Curriculum and Evaluation, [Dr. MINHO KWAK](#) (Korea, Republic of) - Korean Institute for Curriculum and Evaluation

12:45pm **Symposium: Measuring Human Connections in the AI Era**
B146, The Commons
 Chaired by: Dr. Ji Hoon Ryoo (Korea, Republic of)

12:45pm **Classical Test Theory**
B147, The Commons
 Chaired by: Prof. Andries van der Ark (Netherlands)

12:45pm **A Review of Post-Selection Inference Methods for Multiple Linear Regression**
 » [Ms. Zhiwei Dou](#) (Belgium) - KU Leuven, Mr. Enrico Guarino (Belgium) - KU Leuven, Prof. Ginette Lafit (Belgium) - KU Leuven

1pm **Longitudinal Trends in Item Difficulty and Discrimination on NBCE Examinations Across Pre-COVID, COVID, and AI-Prevalent Periods**
 » [Dr. Igor Himelfarb](#) (United States) - National Board of Chiropractic Examiners, Dr. Nai-En Tang (United States) - National Board of Chiropractic Examiners, Dr. Bowen Wang (United States) - National Board of Chiropractic Examiners

1:15pm **Comparing Discrete and Continuous Norming Approaches: A Within-Battery Modeling Study of the SB6/18**
 » [Prof. Pawel Jurek](#) (Poland) - University of Gdansk, Dr. Michal Olech (Poland) - Medical University of Gdansk, Dr. Bartosz Radtke (Poland) - Laboratory of Psychological and Educational Tests, Dr. Urszula Sajewicz-Radtke (Poland) - Laboratory of Psychological and Educational Tests

1:30pm **Statistical Foundations for Estimating Conditional and Score-Related Standard Errors of Measurement**
 » [Dr. Wilco Emons](#) (Netherlands) - Tilburg University

1:45pm **Bias and Precision in True-Score Estimation**
 » [Prof. Andries van der Ark](#) (Netherlands) - University of Amsterdam, Dr. Wilco Emons (Netherlands) - Tilburg University, Prof. Klaas Sijtsma (Netherlands) - Tilburg University

12:45pm **Symposium: Advances in Latent Variable Models for Complex Data**
Room 101, School of Business
 Chaired by: Prof. Irini Moustaki (United Kingdom)

12:45pm **Sparsity in the PARAFAC Model for Three-Way Tensor Data**
 » [Prof. Paolo Giordani](#) (Italy) - Sapienza University of Rome, Prof. Henk A.L. Kiers (Netherlands) - University of Groningen, Dr. Ionel Prunila (Italy) - Sapienza University of Rome

1pm **Inference for Dynamic Latent Variable Model via Pairwise Likelihoods**
 » Prof. Silvia Bianconcini (Italy) - University of Bologna, Prof. Silvia Cagnone (Italy) - University of Bologna, [Dr. Lucia Guastadisegni](#) (Spain) - University Carlos III of Madrid

1:15pm **Dynamic Scheduling Strategies Revealed Through Markov-Switching Preference Patterns**
 » [Prof. Sabrina Giordano](#) (Italy) - University of Calabria, Prof. Alessio Farcomeni (Italy) - University of Tor Vergata Rome, Prof. Antonello Maruotti (United Arab Emirates) - Khalifa University, Dr. Alfonso Russo (Italy) - University of Calabria



Continued from **Tuesday, 21 July**

- 1:30pm **Drclust: An R Package for Simultaneous Clustering and Dimensionality Reduction**
 » [Dr. Ionel Prunila](#) (Italy) - Sapienza University of Rome, Prof. Maurizio Vichi (Italy) - Sapienza University of Rome
- 1:45pm **Model-Based Unsupervised Classification and Reduction of Three-Way Ordinal Data**
 » [Prof. Roberto Rocci](#) (Italy) - Sapienza University of Rome, Prof. Monia Ranalli (Italy) - Sapienza University of Rome
- 12:45pm **Symposium: Advancing Reporting Standards for Simulation Studies and Methodological Research**
Room 102, School of Business
 Chaired by: Mr. František Bartoš (Netherlands)
- 12:45pm **Good Scientific Practices for Simulation Studies**
 » [Dr. Richard Feinberg](#) (United States) - National Board of Medical Examiners, Dr. Carolin Strobl (Switzerland) - University of Zurich
- 1pm **Living Synthetic Benchmarks: A Neutral and Cumulative Framework for Simulation Studies**
 » [Mr. František Bartoš](#) (Netherlands) - University of Amsterdam, Dr. Samuel Pawel (Switzerland) - University of Zurich, Mr. Björn S. Siepe (Germany) - University of Marburg
- 1:15pm **Multi-Method Specification Curves for Presenting Simulation Results**
 » [Mr. David Kronthaler](#) (Switzerland) - University of Zurich, Dr. Carolin Strobl (Switzerland) - University of Zurich
- 1:30pm **Transparency Over the Life-Cycle of a Simulation Study**
 » [Prof. Mirka Henninger](#) (Switzerland) - University of Basel, Prof. R. Philip Chalmers (Canada) - York University, Dr. Carolin Strobl (Switzerland) - University of Zurich
- 1:45pm **Toward Reporting Standards for Methodological Research**
 » [Dr. Karoline Huth](#) (Netherlands) - University of Amsterdam

- 12:45pm **Cognitive Diagnostic Models**
Room 103, School of Business
 Chaired by: Dr. Camilo Cardenas (United Kingdom)
- 12:45pm **Identifiability of Partial Mastery DINA Models**
 » [Dr. Jun Wu](#) (Czechia) - Institute of Computer Science of the Czech Academy of Sciences, Prof. Patřicia Martinková (Czechia) - Institute of Computer Science of the Czech Academy of Sciences, Prof. Elena Erosheva (United States) - University of Washington
- 1pm **Q-Matrix Validation using the Minimax Concave Penalty**
 » [Dr. Daoxuan Fu](#) (China) - Sun Yat-sen University, Prof. Junhao Pan (China) - Sun Yat-sen University
- 1:15pm **Integrating SDT into CDMs: A Discrimination-Weighted Approach**
 » [Mr. Yen-Ting Chen](#) (Taiwan) - National Sun Yat-sen University, Prof. Jyun-Hong Chen (Taiwan) - National Cheng Kung University
- 1:30pm **Stick-Breaking Pólya-Gamma Bayesian Inference for Multiple Choice SDT**
 » [Mr. Takumi Itamiya](#) (Japan) - Dwango Co., Ltd.
- 1:45pm **A Generalized Additive Partial-Mastery Cognitive Diagnosis Model**
 » [Dr. Camilo Cardenas](#) (United Kingdom) - London School of Economics, Prof. Yunxiao Chen (United Kingdom) - London School of Economics, Prof. Irimi Moustaki (United Kingdom) - London School of Economics
- 2pm **Walking Break**
- 2:15pm **Presidential Panel Discussion**
Auditorium, Baekyang Hall
 Chaired by: Prof. Nidhi Kohli (United States) and Dr. Chun Wang (United States)



Continued from **Tuesday, 21 July**

From the Past to the Future of Psychometrika

» [Prof. Nidhi Kohli](#) (United States) - University of Minnesota - Twin Cities, Dr. Chun Wang (United States) - University of Washington, Prof. Hua Hua Chang (United States) - Purdue University, Prof. Irini Moustaki (United Kingdom) - London School of Economics, Dr. Matthias von Davier (United States) - TIMSS & PIRLS International Study Center at Boston College, Prof. Edward H. Ip (United States) - Wake Forest School of Medicine, Prof. Denny Borsboom (Netherlands) - University of Amsterdam, Prof. Minjeong Jeon (United States) - University of California, Los Angeles

2:15pm Item Response Models

B125, Ballroom, The Commons

Chaired by: Dr. Haiyan Lin (United States)

2:15pm Heterogeneous Conditional Dependence of Response Time and Accuracy as Evidence for Cheating Detection

» [Mr. Tai Sun Jeong](#) (Korea, Republic of) - University of Wisconsin - Madison, Dr. James Wollack (United States) - University of Wisconsin - Madison

2:30pm A Comparison of Model-Based and Model-Agnostic Approaches to Detecting Careless Responding

» [Mr. Wenshuo Li](#) (Canada) - McGill University, Prof. Carl Falk (Canada) - McGill University

2:45pm Regression Calibration Outperforms Plausible Values in Regression with Scores from Short Scales

» [Dr. James Uanboro](#) (United States) - University of North Texas, Dr. Nivedita Bhaktha (India) - Indian Institute of Technology Kanpur

3pm Reconsidering Measurement Invariance in ICCS: A Robust Scaling Approach

» [Mr. Pablo Torres Iribarra](#) (Germany) - International Association for the Evaluation of Educational Achievement, Dr. Diego Carrasco (Chile) - Pontificia Universidad Católica de Chile

3:15pm Comparing Growth Scores from Integrated and Standalone CAT Using Simulation, Observational Adjustment, and Distributional Metrics

» [Dr. Haiyan Lin](#) (United States) - NWEA, Dr. Michael Nering (United States) - NWEA, Dr. Patrick Meyer (United States) - NWEA

2:15pm Longitudinal Methods

B126, Ballroom, The Commons

Chaired by: Dr. Kyungmin Lim (Korea, Republic of)

2:15pm Dealing with Missingness in SPC Monitoring of ESM Data

» [Ms. Fien De Pauw](#) (Belgium) - KU Leuven, Dr. Evelien Schat (Belgium) - KU Leuven, Prof. Francis Tuerlinckx (Belgium) - KU Leuven, Prof. Eva Ceulemans (Belgium) - KU Leuven

2:30pm The Illusion of Zero Effects: Unmasking Attenuation Bias in Intensive Longitudinal Data

» [Prof. Hsiu-Ting Yu](#) (Taiwan) - National Chengchi University

2:45pm Real-Time and Person-Specific Detection of Declining Data Quality in Experience Sampling Studies

» [Dr. Evelien Schat](#) (Belgium) - KU Leuven, Prof. Eva Ceulemans (Belgium) - KU Leuven

3pm Impact of Response Scale on Location-Scale Model Estimation

» [Dr. Soyoung Kim](#) (Korea, Republic of) - Chonnam National University

3:15pm Systematic Bias in Latent Growth Models with Binary Variables

» [Dr. Kyungmin Lim](#) (Korea, Republic of) - Ewha Womans University, Prof. Su-Young Kim (Korea, Republic of) - Ewha Womans University

2:15pm Network Psychometrics

B145, The Commons

Chaired by: Dr. Klint Kanopka (United States)

2:15pm Network Psychometrics: Solutions to Node Redundancy

» [Mr. Abraham Iniguez](#) (United States) - University of California, Davis, Dr. Jonathan Park (United States) - University of California, Davis, Dr. Mijke Rhemtulla (United States) - University of California, Davis



Continued from **Tuesday, 21 July**

2:30pm **Modeling Fast-Slow Timescale Coupling in Psychological Systems**

» [Ms. Kyuri Park](#) (Netherlands) - University of Amsterdam, Prof. Denny Borsboom (Netherlands) - University of Amsterdam, Dr. Mike Lees (Netherlands) - University of Amsterdam, Dr. Lourens Waldorp (Netherlands) - University of Amsterdam, Prof. Johan Bollen (Netherlands) - University of Amsterdam, Dr. Vítor V. Vasconcelos (Netherlands) - University of Amsterdam

2:45pm **Quantifying the Threat of Trait-State Confounding to Mediation Validity**

» [Ms. Mengyang Liu](#) (China) - City University of Hong Kong

3pm **Dyadic Transmission of Depression and Anxiety among US Older Couples**

» [Dr. Min Liu](#) (United States) - Baylor University, Dr. Jinyu Liu (United States) - Baylor University

3:15pm **Unraveling the Structure of Suicidal Ideation: A Network Psychometric Approach**

» [Dr. Klint Kanopka](#) (United States) - New York University, Ms. Eliabeth Kroll (United States) - Charlie Health, Dr. Matthew Murray (United States) - Charlie Health, Dr. Caroline Fenkel (United States) - Charlie Health

2:15pm **AI and Clustering**

B146, The Commons

Chaired by: Prof. Jincheol Lim (Korea, Republic of)

2:15pm **Latent Profile Modeling with NLP-Derived Text Features and Response Time Telemetry**

» [Dr. Sunhee Kim](#) (United States) - The College Board, Dr. Judit Antal (United States) - The College Board

2:30pm **Predicting Relative Item Difficulty Using LLMs**

» [Dr. Ye Yuan](#) (United States) - Graduate Management Admission Council ©, Dr. Kyung T. Han (United States) - Graduate Management Admission Council

2:45pm **A Constrained Clustering Algorithm to Form Learning Groups for Effective Instruction**

» [Dr. Minho Lee](#) (United States) - University of Notre Dame, Dr. Cheng Liu (United States) - University of Notre Dame

3pm **A New Framework for the Identification of Representative Trees from Subforests Composed of Accurate and Diverse Trees**

» [Prof. Jincheol Lim](#) (Korea, Republic of) - Sejong University, Korea, Prof. Kyung-Seok Min (Korea, Republic of) - Sejong University, Korea, Ms. Somi Kim (Korea, Republic of) - Sejong University, Korea

3:15pm **Out-of-Sample Prediction and Reliability in Cognitive Diagnosis Models**

» [Mr. Diego Iglesias](#) (Spain) - Universidad Autónoma de Madrid, Dr. Miguel A. Sorrel (Spain) - Universidad Autónoma de Madrid, Dr. Ricardo Olmos (Spain) - Universidad Autónoma de Madrid, Prof. Jimmy de la Torre (Hong Kong) - University of Hong Kong

2:15pm **Longitudinal Methods**

B147, The Commons

Chaired by: Dr. Hok Chio Lai (Macao)

2:15pm **Performance of a Longitudinal Polytomous IRT Model under Small Sample Conditions**

» [Ms. Kong ju Suh](#) (Korea, Republic of) - Keimyung University, Prof. Chanho Park (Korea, Republic of) - Keimyung University

2:30pm **Improving Change Measurement in Longitudinal Studies: A Comparison of LGM and LIRT-Second-Order Latent Growth Models**

» [Dr. Mei Ling Ong](#) (United States) - University of Georgia, Prof. Seock-Ho Kim (United States) - University of Georgia, Dr. Steven Beach (United States) - University of Georgia

2:45pm **Impact and Handling of Non-Normal Data in Multilevel Autoregressive Models**

» [Dr. Yue Xiao](#) (China) - East China Normal University, Prof. Hongyun Liu (China) - Beijing Normal University



Continued from **Tuesday, 21 July**

3pm **Stepwise Exploratory Latent Vector Autoregressive Modelling of Individual Affect Dynamics**

» [Ms. Shannon Dickson](#) (Belgium) - KU Leuven, Dr. Kim De Roover (Belgium) - KU Leuven, Prof. Eva Ceulemans (Belgium) - KU Leuven

3:15pm **Penalized Longitudinal Factor Models with an Approximate L0 Penalty**

» [Dr. Hok Chio Lai](#) (Macao) - University of Macau, Ms. Meltem Ozcan (United States) - University of Southern California

2:15pm **Symposium: Generative AI and Psychometrics**

Room 101, School of Business

Chaired by: Dr. Hudson Golino (United States)

2:15pm **Prompt Engineering for Scale Development in Generative Psychometrics**

» [Mrs. Lara Lee Russell-Lasalandra](#) (United States) - University of Virginia, Dr. Hudson Golino (United States) - University of Virginia

2:30pm **A Network-Based Complexity Approach to Measuring Abstraction in Large Language Model Text Outputs**

» [Ms. Xiatian Chu](#) (United States) - University of Virginia, Dr. Hudson Golino (United States) - University of Virginia

2:45pm **Using Multiagent LLM for Q-Matrix Validation in Cognitive Diagnosis**

» [Dr. Wenchao Ma](#) (United States) - University of Minnesota - Twin Cities

3pm **LLM Agent Accuracy for Automatic Database Construction**

» [Mr. Iain Ramirez](#) (United States) - University of Virginia, Dr. Hudson Golino (United States) - University of Virginia

2:15pm **Causal Inference**

Room 102, School of Business

Chaired by: Prof. Yong-Won Lee (Korea, Republic of)

2:15pm **Instrument-Based Falsification Tests for Item Bias in Reading Assessments**

» [Dr. Naram Gwak](#) (Korea, Republic of) - Seoul National University

2:30pm **On the Identification of Item Bias via Difference-in-Differences**

» [Dr. Sangyun Lee](#) (Korea, Republic of) - Gwangju Munsan Elementary School, Prof. Yongnam Kim (Korea, Republic of) - Seoul National University

2:45pm **Re-Conceptualizing Consequential Validity in Diagnostically-Oriented Tests**

» [Prof. Yong-Won Lee](#) (Korea, Republic of) - Seoul National University

3pm **A Nonparametric, Scale-Free Measure of Causal Effects on Validated Latent Traits with the Causal Win Ratio**

» [Ms. Beom Kwon](#) (United States) - University of Wisconsin - Madison, Prof. Hyunseung Kang (United States) - University of Wisconsin - Madison

3:15pm **Causal Inference for Assessment Outcomes Under Measurement Model Uncertainty**

» [Dr. Xiangyi Liao](#) (Canada) - University of British Columbia

2:15pm **Dynamical Systems Modeling**

Room 103, School of Business

Chaired by: Dr. Jonathan Park (United States)

2:15pm **Affect and Emotions Within the Sense-Making Phase Transition Framework**

» [Mr. Miguel Bosch Francisco](#) (Spain) - Universidad Autónoma de Madrid

2:30pm **Detecting Abrupt Shifts in Cognitive Development Trajectories**

» [Mr. Marcos Romero-Suárez](#) (Spain) - Universidad Autónoma de Madrid, Prof. Sy-Miin Chow (United States) - The Pennsylvania State University, Dr. Pablo F. Cáncer (Spain) - Universidad Pontificia Comillas, Prof. Eduardo Estrada (Spain) - Universidad Autónoma de Madrid



Continued from **Tuesday, 21 July**

2:45pm **Bayesian Dynamic Modeling of Physical Activity in EMA Data**
 » [Dr. Marek Brabec](#) (Czechia) - Institute of Computer Science of the Czech Academy of Sciences, Prof. [Patrícia Martinková](#) (Czechia) - Institute of Computer Science of the Czech Academy of Sciences, Dr. [Marek Maly](#) (Czechia) - Institute of Computer Science of the Czech Academy of Sciences

3pm **The Implications of Modeling Dynamic Factors as Networks**
 » [Dr. Jonathan Park](#) (United States) - University of California, Davis

3:15pm **Dynamic Latent Variable Models for Log Data from Learning Platforms**
 » [Ms. Ji Yun Lee](#) (United States) - University of Texas at Austin, Dr. [Hyeon-Ah Kang](#) (United States) - University of Texas at Austin

3:30pm **Refreshment Break**

3:45pm **Early Career Award**
Auditorium, Baekyang Hall
 Chaired by: Prof. [Alison Cheng](#) (United States)

Assembling the Diagnostic Puzzle: Multimodal Perspectives on Cognitive Diagnosis
 » Professor [Shiyu Wang](#) (United States) - University of Georgia

4:45pm **Walking Break**

5pm **Reception, Poster Session I**
B132, The Commons

Integrating Critical Perspectives on Race, Measurement, and Methodology
 » [Ms. Brein Mosely](#) (United States) - Harvard University

Quantifying Similarity Across Automatic Item Generated Parallel Forms

» [Dr. Emily Ho](#) (United States) - Northwestern University, Prof. [David Budescu](#) (United States) - Fordham University

Collaborative Learning in Online and Hybrid Higher Education Learning Environments

» [Prof. Sy-Miin Chow](#) (United States) - The Pennsylvania State University, Ms. [Xiaoyue Xiong](#) (United States) - The Pennsylvania State University, Mr. [Jyotirmoy Nirupam Das](#) (United States) - The Pennsylvania State University, Dr. [Majorie Bond](#) (United States) - The Pennsylvania State University, Dr. [Tracey Hammel](#) (United States) - TBA, Ms. [Sharon Haeun Kim](#) (United States) - The Pennsylvania State University, Dr. [Jung In Kim](#) (United States) - The Pennsylvania State University, Dr. [Pui-Wa Lei](#) (United States) - Pennsylvania State University, Dr. [Molly Countermine](#) (United States) - The Pennsylvania State University, Dr. [Yoakim Badr](#) (United States) - The Pennsylvania State University, Dr. [Orfeu Buxton](#) (United States) - The Pennsylvania State University, Dr. [Matthew Beckman](#) (United States) - Pennsylvania State University, Dr. [Prabhani Kuruppumullage Don](#) (United States) - Pennsylvania State University

Software for Parameter Selection for Windowed Cross Correlation (WCC)

» [Prof. Steven Boker](#) (United States) - University of Virginia, Dr. [Chris Welker](#) (United States) - University of Virginia, Ms. [Jingyun Wu](#) (United States) - University of Virginia, Ms. [Sareena Chadha](#) (United States) - University of Virginia

On the Equivalence of Kish's Effective Sample Size and Satterthwaite's Degrees of Freedom under Homogeneous Variance Components

» [Dr. Matthias von Davier](#) (United States) - TIMSS & PIRLS International Study Center at Boston College

Impact of Parameter Type and Multidimensional Structure on the Holistic Fitting Propensity of Dichotomous IRT Models

» [Dr. Ezgi Aytürk](#) (Türkiye) - Koç University, Dr. [Leah Feuerstahler](#) (United States) - Fordham University



Continued from Tuesday, 21 July

Mutual Information-Based Exploratory Graph Analysis for Factor Structure Recovery

» Mr. Youngjin Kim (Korea, Republic of) - Korea Institute for Curriculum and Evaluation, Ms. Yejin Woo (Korea, Republic of) - Ewha Womans University, Mr. Hoon Kim (Korea, Republic of) - Korea Institute for Curriculum and Evaluation, [Mr. Nagap Park](#) (Korea, Republic of) - Yonsei University

Investigation of Metric Invariance in Structural Equation Model Trees

» [Dr. Minju Hong](#) (Korea, Republic of) - Chung-Ang University, Dr. Juyeon Lee (Korea, Republic of) - Korean Educational Development Institute

Automated Item Generation for Parallel Forms Using Multi-Agent Systems

» [Mr. Seojun Lee](#) (Korea, Republic of) - Hallym University, Prof. Dong Gi Seo (Korea, Republic of) - Hallym University

Beyond MCAR: Conditions Under Which Complete Case Analysis Remains Valid

» [Ms. Siyi Wang](#) (Canada) - University of Toronto, Dr. Feng Ji (Canada) - University of Toronto

Developing a Generative AI Over-Dependence Scale Using LLM Simulations

» [Ms. Hyunyeon Song](#) (Korea, Republic of) - Yonsei University, Ms. Minchae Noh (Korea, Republic of) - Yonsei University, Prof. Han Joe Kim (Korea, Republic of) - Yonsei University

Systematic Review of Q-Matrix Validation Methods for Diagnostic Classification Models

» [Ms. Ashley Heady](#) (United States) - University of Georgia, Mr. Beltran Pantoja De Prada (United States) - University of Georgia, Ms. Nancy Alila (United States) - University of Georgia, Prof. Matthew Madison (United States) - University of Georgia

Integrating RMSD into Bayesian Posterior Predictive DIF Detection for ILSAs

» [Dr. Sean Joo](#) (United States) - University of Kansas, Dr. Jung Yeon Park (United States) - George Mason University

Reliability-Weighted State-Space RNNs for Knowledge Tracing Under Turn-Varying Label Noise

» [Dr. Jinnie Shin](#) (United States) - University of Florida, Ms. Anna Pauline Aguinalde (United States) - University of Florida

Addressing Response Process Heterogeneity in CAT: A Monte Carlo Evaluation of the MixDUM Model

» [Dr. Wei Wang](#) (United States) - The CUNY Graduate Center, Mr. Edward Xue (United States) - Baruch College and Graduate Center, CUNY

Flexible Standard Error Estimation of Bayesian Generalized Linear Models under Misspecified Variances

» [Mr. Junjie Ma](#) (Canada) - University of Toronto, Dr. Feng Ji (Canada) - University of Toronto

Response-Free Rasch Difficulty Prediction via Option Interaction Modeling

» [Mr. Jan Netík](#) (Czechia) - Institute of Computer Science, Czech Academy of Sciences; Charles University, Prof. Patrícia Martinková (Czechia) - Institute of Computer Science, Czech Academy of Sciences; Charles University

The Role of the Intraclass Correlation Coefficient in Multilevel Analysis

» [Dr. Yasuhiro Yamamoto](#) (Japan) - Okayama University, Prof. Yasuo Miyazaki (United States) - Virginia Polytechnic Institute and State University

Assessing the Performances of Coordinate Ascent Variational Inference for Dynamic Structural Equation Modeling Parameters Estimation

» [Mr. Vivato Andriamarana](#) (Germany) - Tübingen University



Continued from **Tuesday, 21 July**

A Data-Matrix-Based Overall Goodness-of-Fit Test for Confirmatory Factor Analysis: In-Sample Prediction Error for Observed Variables

» [Mr. Young Ze Kim](#) (Korea, Republic of) - Yonsei University, Prof. Gyeongcheol Cho (United States) - The Ohio State University, Prof. Han Joe Kim (Korea, Republic of) - Yonsei University

A Review of LLM-Based AES Studies Dealing with Non-English Languages

» [Mr. Hyeongseop Kim](#) (Korea, Republic of) - Yonsei University, Prof. Guemin Lee (Korea, Republic of) - Yonsei University

Detecting Differences in Latent Means Under Varying Partial Equivalence Conditions

» [Dr. Cheng-Hsien Li](#) (Taiwan) - National Sun Yat-sen University

Assessing the Performance of Change-Point LTA for Detecting Structural Shifts

» [Mr. Hangyu Kim](#) (Korea, Republic of) - Kyungpook National University, Prof. Jungkyu Park (Korea, Republic of) - Kyungpook National University

Robust Weighted Sequential Detection of Compromised Items in CAT

» [Dr. Huang Yao-Hsuan](#) (Taiwan) - National Taiwan Normal University, Prof. Chen Po-Hsi (Taiwan) - National Taiwan Normal University

Using IRT to Test Competing Explanations for Comorbidity in BPD

» [Ms. Eun Sun Lee](#) (United States) - University of South Florida, Ms. Bori Jung (United States) - University of South Florida, Dr. Marina Bornovalova (United States) - University of South Florida

Intervention Simulations for Insomnia Using Bridge Centrality in Networks

» [Ms. Megumi Kato](#) (Japan) - Senshu university, Mr. Takumi Omizu (Japan) - Senshu university, Prof. Yoshihiko Kunisato (Japan) - Senshu university

Modeling and Scoring Conversational Explain-Your-Thinking Items at Scale

» [Dr. Jing Chen](#) (United States) - Khan Academy, Dr. Scott Frohn (United States) - Khan Academy, Dr. Tyler Burleigh (United States) - Khan Academy

A Permutation-Based Network Invariance Test Using the Network Similarity Metric

» [Dr. Simran Johal](#) (United States) - University of Oregon, Ms. Natalie Bondurant (United States) - University of California, Davis, Prof. Esther Ulitzsch (Norway) - University of Oslo, Dr. Mijke Rhemtulla (United States) - University of California, Davis

Nested Cross-Validation for Within-Class Structure Selection in GMM

» [Ms. Heekyung Moon](#) (Korea, Republic of) - Korea University, Prof. Taehun Lee (Korea, Republic of) - Korea University

Selective Data Fusion to Augment Randomized Trials with External Data

» [Ms. Seyda Aydin](#) (Germany) - University of Tübingen, Prof. Holger Brandt (Germany) - Tübingen University

A Latent Dirichlet Allocation Analysis of Knowledge Tracing Research Trends

» [Ms. Seung-Ri Choo](#) (Korea, Republic of) - Ewha Womans University, Prof. Youn-Jeng Choi (Korea, Republic of) - Ewha Womans University

Evaluating Measurement Invariance with Multiple Covariates in Cognitive Diagnosis Modeling

» [Dr. Pablo Nájera](#) (Spain) - Universidad Pontificia Comillas, Dr. Miguel A. Sorrel (Spain) - Universidad Autónoma de Madrid, Dr. Philipp Sterner (Germany) - Ludwig-Maximilian-University München, Prof. David Goretzko (Germany) - Goethe University, Frankfurt

Detecting High Loneliness in University Students using Machine Learning

» [Ms. Sunyoung Won](#) (Taiwan) - National Taiwan University, Prof. Kaiping Yao (Taiwan) - National Taiwan University, Prof. Li-Chung Lin (Taiwan) - Chung Yuan Christian University



Continued from **Tuesday, 21 July**

Modeling the Time-Varying Effect in Dyadic RSA Data: A Continuous-Time Multilevel Coupled Oscillator Framework

» [Mr. Yongqi Lang](#) (United States) - University of Utah, Prof. Lisa Diamond (United States) - University of Utah, Prof. Pascal Deboeck (United States) - University of Utah

Validation of a Within-Subject Factorial Survey for Assessing Implicit Stereotypes

» [Dr. M. Constanza Ayala](#) (Chile) - Universidad de Valparaíso, Dr. Ana María Espinoza (Chile) - Universidad del Desarrollo, Dr. Luis Maldonado (Chile) - Pontificia Universidad Católica de Chile, Dr. María Inés Susperreguy (Chile) - Pontificia Universidad Católica de Chile, Ms. Josefa Espinoza (Chile) - Universidad Alberto Hurtado

Parallel Analysis and Competing Methods in Bifactor Models with Noise

» [Ms. Zexuan Jiang](#) (United States) - University of Illinois Urbana-Champaign, Prof. Yan Xia (United States) - University of Illinois Urbana-Champaign

Causal Inference of Gamification Effects Using Bayesian Network Modeling

» [Ms. Yeji Jang](#) (Korea, Republic of) - Ewha Womans University, Ms. Chaeyeon Lee (Korea, Republic of) - Ewha Womans University, Ms. Sumin An (Korea, Republic of) - Ewha Womans University, Dr. Hye-Eun Seok (Korea, Republic of) - Kyungpook National University

Marginal Information Functions for Graded Response Models with Sequential Dependence of Responses

» [Dr. Daisuke Shimada](#) (Japan) - Tokyo Metropolitan University, Dr. Kensuke Okada (Japan) - The University of Tokyo

Scaling and Estimation of Growth Models with Categorical Indicator Variables

» [Dr. Kyungmin Lim](#) (Korea, Republic of) - Ewha Womans University, Prof. Su-Young Kim (Korea, Republic of) - Ewha Womans University

Implementing Dynamic Latent Class Structural Equation Models in JAGS

» [Ms. Sofia Morelli](#) (Germany) - Tübingen University, Mr. Roberto Faleh (Germany) - Tübingen University, Prof. Holger Brandt (Germany) - Tübingen University

Effects of Sample Size and Time Points on Innovation Variance in DSEM

» Ms. Young Soo Lee (Korea, Republic of) - Sogang University, [Dr. Hye Won Suk](#) (Korea, Republic of) - Seoul National University

Estimating Inverse Temperature in Individual Networks Using Dynamic Ising Models

» [Mr. Takumi Omizu](#) (Japan) - Senshu university, Prof. Yoshihiko Kunisato (Japan) - Senshu university

Bullying as a Behavioural Determinant of Health: Prevalence, Forms, and Associated Factors among Medical Students in Oman

» [Ms. Maryam Al Wahaibi](#) (Oman) - Sultan Qaboos University, Dr. Nasar Al wahaibi (Oman) - Sultan Qaboos University, Ms. Shahd Al Ghawi (Oman) - Sultan Qaboos University, Ms. Fatema Al Ajaimi (Oman) - Sultan Qaboos University, Ms. Hoor Al Habsi (Oman) - Sultan Qaboos University, Ms. Maria Al Azri (Oman) - Sultan Qaboos University, Mr. Mohammed Al Badi (Oman) - Sultan Qaboos University

Evaluating the Latent Space Modeling Approach for Aggregated Process Data

» [Dr. Xin Qiao](#) (United States) - University of South Florida, Dr. Tracy Sweet (United States) - University of Maryland

The Performance of AES by Implementing Strategic Copy-Paste Data Augmentation

» [Ms. Siwon Kim](#) (Korea, Republic of) - Yonsei University, Mr. Youngmin Kwon (Korea, Republic of) - Yonsei University, Prof. Guemin Lee (Korea, Republic of) - Yonsei University



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A Robust Bootstrap-CUSUM Method for Detecting Test Speededness and Pinpointing Changepoints in Computerized Testing

» Dr. Baoqun Chang (China) - Northeast Normal University, Dr. Chun Wang (United States) - University of Washington, [Dr. Jing Lu](#) (China) - Northeast Normal University, Prof. Jiwei Zhang (China) - Northeast Normal University

Importance-Weighted Autoencoders for Estimating and Evaluating Multidimensional Graded Response Models: An Application to AI Literacy Scale

» [Dr. Jie-Wen Tsai](#) (Taiwan) - National Central University, Prof. Tzu-Yang Chao (Taiwan) - National Central University, Prof. Yu-Hsin Lo (Taiwan) - Tunghai University, Prof. Feng-Nan Hwang (Taiwan) - National Central University, Prof. Li-Der Chou (Taiwan) - National Central University

A Novel Mixture Item Response Theory Model for Guessing Behavior

» [Mr. Fei Gao](#) (China) - University of California, Merced, Dr. Ren Liu (China) - University of California, Merced, Dr. Haiyan Liu (United States) - University of California, Merced

AI-Driven Item Cloning for Psychometric Equivalence, Scalable Form Assembly, and Enhanced Test Security

» [Dr. Heather Harris](#) (United States) - Workday

A Parsimonious Form of Moderated Mediation in Psychological Science: Detecting Spurious Effects and Proposing Refinements to Model Specification

» [Ms. Yiqing Quan](#) (Hong Kong) - The Hong Kong Polytechnic University, Prof. Chi Kit Jacky Ng (Hong Kong) - The Hong Kong Polytechnic University

Effects of DIF Items on Routing and ? Estimation in MST

» [Ms. Jiyeon Kim](#) (Korea, Republic of) - Yonsei University, Prof. Guemin Lee (Korea, Republic of) - Yonsei University

The Importance of Covariate Control in Nonequivalent Groups Design Studies

» [Mr. Eungi Jeon](#) (Korea, Republic of) - Yonsei University, Prof. Han Joe Kim (Korea, Republic of) - Yonsei University

The Latent Space Item Response Model as a Network-Based Framework for Centrality Evaluation

» [Mr. Seungchan Yu](#) (Korea, Republic of) - Yonsei University, Dr. Inhan Kang (Korea, Republic of) - Yonsei University

Addressing Moderation Effects in Multiple-Group Structural Equation Models with Unbalanced Data: A Comparison of Approaches

» Mr. Tzu-Yang Chao (Taiwan) - National Taiwan Normal University, [Mr. Po-Yi Chen](#) (Taiwan) - National Taiwan Normal University

Development and Validation of a Context-Specific Generative AI Scoring System for Scenario-Based Teaching Aptitude Assessments: A High-Precision Measurement Approach

» [Prof. In-Hee Choi](#) (Korea, Republic of) - Sookmyung Women's University

The Impact of DIF on Q-Matrix Refinement in CDM

» [Dr. Hsiu-Yi Chao](#) (Taiwan) - Soochow University

Bayesian Multilevel Modeling for Handling Missing Responses and Background Covariates

» Dr. Jialing Tan (China) - Northeast Normal University, Dr. Chun Wang (United States) - University of Washington, [Prof. Jiwei Zhang](#) (China) - Northeast Normal University, Dr. Jing Lu (China) - Northeast Normal University

A Comparative Study of Optimal Cut-Off Indices for Criterion-Referenced Psychological Tests

» [Mr. Myung In Ahn](#) (Korea, Republic of) - Seoul National University, Dr. Hye Won Suk (Korea, Republic of) - Seoul National University



Continued from **Tuesday, 21 July**

Reconciling Latent Variables and Networks - Exploring and Extending the Psychometric-Toolbox

» [Mr. Kevin Kistermann](#) (Germany) - Tübingen University, Mr. Vivato Andriamiarana (Germany) - Tübingen University, Prof. Augustin Kellava (Germany) - Tübingen University

Exploring Developmental Trajectory of Multicultural Adolescents with Latent Class Analysis

» [Ms. Jeong U Kim](#) (Korea, Republic of) - Sungshin Women's University, Dr. Mirim Kim (Korea, Republic of) - Sungshin Women's University

Power and Sample Size Calculations for the Jonckheere and Page Tests Against Ordered Alternatives in Randomized Complete Block Designs

» Dr. Show-Li Jan (Taiwan) - Chung Yuan Christian University, [Dr. Gwonen Shieh](#) (Taiwan) - National Yang Ming Chiao Tung University

Autoregressive Coefficient Estimation Under Model (Mis)Specification in Four Longitudinal SEM Models

» [Ms. Yoo Ri Hwang](#) (United States) - University of California, Davis, Dr. Mijke Rhemtulla (United States) - University of California, Davis

Breaking the Habit: An Empirical Demonstration of Why Classification May be a Better Alternative to Factor Analysis in Scale Development

» Dr. Leanne Ketterlin Geller (United States) - Southern Methodist University, [Ms. Joanne Joo](#) (United States) - Southern Methodist University, Dr. Yusuf Kara (United States) - University of Miami

Measurement Invariance of the CIAS-10 Across Age Groups in Taiwan

» [Ms. Yi-Ling Lai](#) (Taiwan) - National Taiwan University, Prof. Li-Chung Lin (Taiwan) - Chung Yuan Christian University, Prof. Sue-Huei Chen (Taiwan) - National Taiwan University

Constraining Extreme Response Styles in Multiscale Partial Credit Models

» [Dr. Eunbee Kim](#) (United States) - Georgia Institute of Technology, Dr. Susan Embretson (United States) - Georgia Institute of Technology, Dr. Clifford Hauenstein (United States) - The Johns Hopkins School of Medicine

Composite Likelihood-Based Transition Diagnostic Classification Model for Intensive Repeated Measurements

» [Dr. Minh Lee](#) (United States) - University of Notre Dame, Dr. Yon Soo Suh (United States) - NWEA

Non-Normality and Heteroskedasticity in Linear Regression: A Practice-Oriented Summary

» [Mrs. Hanna Rajh-Weber](#) (Austria) - University of Graz, Dr. Stefan Huber (Austria) - University of Graz, Prof. Martin Arendasy (Austria) - University of Graz

Detecting AI Cheating in High-Stakes Assessments: A LASSO Logistic Regression Approach

» [Dr. Timo Seitz](#) (Germany) - University of Mannheim, Ms. Alexandra Michelle Schardt (Germany) - University of Mannheim, Mr. Maik Spengler (Germany) - HR Diagnostics

Can AI Score Leadership? Applying ChatGPT to Principal Training Assessment and Feedback

» [Dr. Mingchuan Hsieh](#) (Taiwan) - National Academy for Educational Research

A Beta-Lognormal Gaussian Copula Model for Visual Analogue Scaling Data

» [Mr. Tzu-Yang Chao](#) (Taiwan) - National Taiwan Normal University, Prof. Chen-Wei Liu (Taiwan) - National Taiwan Normal University

How to Leverage AI for Automatic Item Generation for Novel Constructs

» [Ms. Deborah Iaze](#) (Canada) - York University, Dr. Xijuan Zhang (Canada) - York University

Adaptive SEM: A Unified Framework for Dynamic Latent Processes

» [Mr. Wesam Asaad](#) (Switzerland) - Independent Researcher



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Cheating Detection in Large-Scale Assessment Using a Transformer-Based Tabular Foundation Model: TabPFN

» [Ms. Hanna Choi](#) (United States) - University of Maryland, Dr. Hong Jiao (United States) - University of Maryland

Structural Equation Model of Social Anxiety Amongst US Gamers

» [Ms. Hannah Park](#) (United States) - Independent Researcher, Dr. Dakota Cintron (United States) - Claremont Graduate University

Eye-Movements Methodology as Response Processes Validity Evidence

» [Dr. Susana Sanz](#) (Spain) - Universidad Pontificia Comillas, Dr. José David Moreno Pérez (Spain) - Universidad Autónoma de Madrid, Ms. Beatriz Rodríguez (Spain) - Universidad Autónoma de Madrid, Prof. Jukka Hyönä (Finland) - University of Turku

A Proposal on using Eye Movements in Educational Assessment

» [Dr. José David Moreno Pérez](#) (Spain) - Universidad Autónoma de Madrid, Dr. Susana Sanz (Spain) - Universidad Pontificia Comillas, Dr. María Pilar Aivar (Spain) - Universidad Autónoma de Madrid, Dr. Miguel A. Sorrel (Spain) - Universidad Autónoma de Madrid

Detecting Aberrant Respondents in Computer-Based Assessment Using a Lognormal Item Response Theory Model

» [Mr. Jungkyo Jung](#) (Korea, Republic of) - Chungnam National University, Prof. Hyewon Chung (Korea, Republic of) - Chungnam National University

(Mis)Modeling Acquiescence Bias in Latent Mediation Models

» [Mr. Tugay Kaçak](#) (Türkiye) - Trakya University

Implementation Quality Over Quantity: A Moderated Mediation Analysis of How SEL Program Adherence and Dosage Influence Academic Achievement Through Social-Emotional Competencies

» [Ms. Menghe Xu](#) (United States) - Pennsylvania State University, Ms. Wuzhiyin Sun (United States) - Pennsylvania State University, Ms. Tianying Sun (United States) - Pennsylvania State University, Dr. Pui-Wa Lei (United States) - Pennsylvania State University, Dr. James Clyde Diperna (United States) - Pennsylvania State University

Correcting Between-Group Mean Differences using a Sum-Score-Based Differential Test Functioning Index

» [Dr. Yutaro Sakamoto](#) (Japan) - Recruit Management Solutions Co., Ltd., Dr. Ryuichi Kumagai (Japan) - Tohoku University

The Item Response Warehouse: What it Is, How to Use It, and Targets for Potential Improvements

» Prof. Ben Domingue (United States) - Stanford University, Ms. Savira Nadela (United States) - Stanford University, Ms. Hansol Lee (United States) - Stanford University, Ms. Nishka Jain (United States) - Stanford University, Mr. Ayaan Gupta (United States) - Stanford University, [Ms. Lijin Zhang](#) (United States) - Stanford University

The LEVANTE Core Tasks: Internationalized Measures of Learning and Development for Children Ages 5-12 Years

» [Prof. Ben Domingue](#) (United States) - Stanford University

Determinants of Digital Learning in Taiwan's Primary and Secondary Schools: An Organizational Structure Analysis

» [Prof. Ming-Hsueh Tsai](#) (Taiwan) - National Academy for Educational Research

Comparing Methods for Causal Mediation with Nominal Mediator

» [Dr. Soyoung Kim](#) (Korea, Republic of) - Chonnam National University, Dr. Sooyong Lee (United States) - WIDA at the University of Wisconsin-Madison

Bayesian Hierarchical Models for Multisite Dynamic Treatment Regimes

» [Mr. Hangil \(Noah\) Hong](#) (Japan) - University of Tsukuba, Prof. Kazuya Fujita (Japan) - University of Tsukuba



Continued from **Tuesday, 21 July**

Construction of School-Based SEL Implementation Indicators: A Case Study

» [Prof. Yu-Chuan Chen](#) (Taiwan) - National Taiwan Normal University

Correcting for Bias in Cluster-Level Effects of Categorical Predictors

» [Mr. Tsuyoshi Kato](#) (Japan) - The University of Tokyo

Validity Index in Mean Comparisons: Cutoff Values and Confidence Intervals

» [Ms. Muhan Yang](#) (United States) - University of Notre Dame, Dr. Ke-Hai Yuan (United States) - University of Notre Dame

Comparing Permutation Methods for Evaluating Multidimensional Scaling Configuration Similarity

» [Mr. Yonggi Kim](#) (Korea, Republic of) - Chungbuk National University, Dr. Yuhwa Han (Korea, Republic of) - Chungbuk National University

Aggregated Inference for Structural Equation Modeling with Repeated Data Splitting

» Mr. You-Lin Chen (Taiwan) - National Chengchi University, [Dr. Po-Hsien Huang](#) (Taiwan) - National Chengchi University

Group Sequential Methods for Detecting Differential Item Functioning

» [Mr. Shuhei Hanadate](#) (Japan) - University of Tsukuba, Dr. Kazuhiro Yamaguchi (Japan) - University of Tsukuba

Alignment Method for Reference Indicator Selection in Invariance Testing

» [Mr. ChiHyeon Noh](#) (Korea, Republic of) - Pusan National University, Prof. Seung Bin Cho (Korea, Republic of) - Pusan National University

From Suspicion to Evidence: A Multi-Index Psychometric Approach to Detecting Exam Collusion

» [Dr. Muhammad Naveed Khalid](#) (United Kingdom) - Royal College of Emergency Medicine

Finite-Sample Evaluation of Computerized Adaptive Testing

» [Mr. Hau-Hung Yang](#) (Taiwan) - National Taiwan University, Prof. Yung-Fong Hsu (Taiwan) - National Taiwan University, Dr. Che Cheng (Taiwan) - National Taiwan University

Familiarity and Liking in Classroom Networks: A Multilayer Analysis of Rated Peer Relations

» [Dr. Chih-Han Leng](#) (Taiwan) - National Tsing Hua University, Prof. Ulf Böckenholt (United States) - Northwestern University

Acculturative Stress Change and Covariate DIF: a Bayesian MNLFA Approach

» [Mr. Changhyeon Lee](#) (Korea, Republic of) - Ajou University, Prof. Younyoung Choi (Korea, Republic of) - Ajou University

Applying Diagnostic Classification Models to an English Language Proficiency Assessment

» [Ms. Kayla Teng](#) (United States) - University of California, Los Angeles

Predicting Mathematics Achievement using Process Data Structured by Item Characteristics

» [Ms. Yejin Woo](#) (Korea, Republic of) - Ewha Womans University, Prof. Youn-Jeng Choi (Korea, Republic of) - Ewha Womans University

The Moderating Role of Money Attitudes in the Relationship Between Personality Traits and Early Pension Withdrawal

» [Mr. Paul Nixon](#) (South Africa) - Momentum Investments, Prof. Evan Gilbert (South Africa) - University of Stellenbosch

5:55pm

Poster Transition Break

6:05pm

Reception, Poster Session II

B132, The Commons

Relationships among Polytomous IRT Models: Focusing on the Reparameterized NRM

» [Mr. Hyeon Park](#) (Korea, Republic of) - Hallym University, Prof. Dong Gi Seo (Korea, Republic of) - Hallym University



Continued from **Tuesday, 21 July**

Integrating Anchor Selection Strategies with Dual-Scale Purification for DIF Detection

» [Dr. Ya-Hui Su](#) (Taiwan) - National Chung Cheng University, Ms. Wei-Tzu Wu (Taiwan) - National Chung Cheng University

A Generalized Latent Class Model for Zero-Inflated Overdispersed Counts

» [Mr. Jeonglae Seo](#) (Korea, Republic of) - Kyungpook National University, Prof. Jungkyu Park (Korea, Republic of) - Kyungpook National University

SNMMs with Functional Covariates for Longitudinal Causal Inference

» [Mr. Yuhao Wang](#) (China) - The University of Osaka, Dr. Kentaro Fukushima (Japan) - The University of Osaka, Dr. Michio Yamamoto (Japan) - The University of Osaka

Asymptotic Robustness of DINA Under Q-Matrix Misspecification

» [Mr. Yen-Ting Chen](#) (Taiwan) - National Sun Yat-sen University, Prof. Ching-Lin Shih (Taiwan) - National Sun Yat-sen University

One Process, Different Clock: a Continuous-Time View on Sampling Frequencies

» [Ms. Nilufer Goktas](#) (United States) - University of Southern California, Dr. Meng Chen (United States) - University of Southern California

Application of Item Response Theory to Evaluate Developmental Measurement Coverage of Executive Function Tasks in Early Childhood

» [Dr. Akie Yada](#) (Finland) - University of Jyväskylä, Prof. Kirby Deater-Deckard (United States) - University of Massachusetts Amherst, Dr. Fiia Takio (Finland) - University of Turku, Dr. Elisabeth Nordenswan (Finland) - University of Turku, Dr. Eeva Eskola (Finland) - University of Turku, Prof. Hasse Karlsson (Finland) - University of Turku, Prof. Linnea Karlsson (Finland) - University of Turku, Prof. Riikka Korja (Finland) - University of Turku, Dr. Saara Nolvi (Finland) - University of Turku, Prof. Asko Tolvanen (Finland) - University of Jyväskylä

Predicting Dropout: Should Time be Considered Continuous or Discrete?

» [Mr. Hyungjun Park](#) (Singapore) - National University of Singapore

Verification of Practical Utility of the Attachment Support Evaluation Scale (ASES)

» [Dr. Yoko Tanaka](#) (Japan) - Kio University

Why $ab + c'$ is not c : Addressing the Effect Conservation Anomalies in Mediation Analysis

» [Prof. Chi Kit Jacky Ng](#) (Hong Kong) - The Hong Kong Polytechnic University, Dr. Congqing He (China) - Huzhou University

Leveraging Prompt Engineering for Automated WJ V Short-Form Test Assembly

» [Dr. Hyeonjoo Oh](#) (United States) - Riverside Insights, Dr. Tong Wu (United States) - Riverside Insights, Dr. Youngmi Cho (United States) - Riverside Insights

Model-Based ORF Scores with Negative-Binomial Factor Model

» [Mr. Paul Foster](#) (United States) - Southern Methodist University, Dr. Xin Qiao (United States) - University of South Florida, Dr. Yusuf Kara (United States) - University of Miami, Dr. Akihito Kamata (United States) - Southern Methodist University

A Simulation-Based Comparison Between Estimated Latent Scores and Sum Scores

» [Mr. Tonatiah Xochihua Tlecuil](#) (United States) - University of California, Los Angeles

Examining Task-Bundle Heterogeneity in Treatment Effects using Explanatory Item Response Modeling

» [Dr. Yukie Toyama](#) (United States) - University of California, Berkeley, Prof. Mark Wilson (United States) - University of California, Berkeley

Semi-Amortized Variational Inference for Highdimensional Item Response Theory

» [Mr. Zhe Li](#) (United States) - University of Florida, Dr. Jinnie Shin (United States) - University of Florida



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Estimating Covariate Effects in Nonparametric Multilevel Latent Profile Analysis Accounting for Joint Level-1 and Level-2 Classification Error Probabilities

» [Mr. Myoungsung Lee](#) (Korea, Republic of) - Korea University, Mr. Seongmin Park (Korea, Republic of) - Korea University

The Impact of Weight Inclusion in Multiple Imputation on Hazard Ratio Estimation for Complex Survey Survival Data

» [Mr. Jinhee Bae](#) (Korea, Republic of) - Korea University, Prof. Taehun Lee (Korea, Republic of) - Korea University

Nested Cross-Validation for Model Selection in Structural Equation Modeling

» [Mr. Yoonsik Chae](#) (Korea, Republic of) - Korea University, Dr. Dexin Shi (United States) - University of South Carolina, Prof. Taehun Lee (Korea, Republic of) - Korea University

Redefining University Diversity: A Hierarchical Clustering Analysis of Higher Education Institutions in Taiwan

» [Dr. Hsiuhsi Liu](#) (Taiwan) - National Academy for Educational Research

Using Diagnostic Classification Models to Address Sparse Response Data in Likert-Scale Surveys

» Dr. Yu Bao (United States) - James Madison University, Dr. Jin Liu (United States) - University of Texas at Arlington, [Dr. Ying jin](#) (United States) - James Madison University

Combined Impact of Missing Data and Model Misspecification in GMM

» [Ms. Youngin Lee](#) (Korea, Republic of) - Seoul National University, Ms. Yejin Kim (Korea, Republic of) - Seoul National University, Ms. Suyeon Cha (Korea, Republic of) - Seoul National University, Prof. Hyun-Jeong Park (Korea, Republic of) - Seoul National University

Handling Missing not at Random in Cross-Lagged Panel Models

» [Dr. Kazuki Hori](#) (Japan) - Prefectural University of Kumamoto

Developing Abbreviated Form of DTVP Across Preschool and School-Age Samples

» [Dr. Tian liang](#) (Hong Kong) - The Hong Kong Polytechnic University, Ms. Kristin Langohr (Hong Kong) - The Hong Kong Polytechnic University, Prof. Wai Ting Siok (Hong Kong) - The Hong Kong Polytechnic University

Hub-Aware EIG in Graph-Structured Bayesian MIRT Diagnostics

» [Mr. Donghun Kang](#) (Korea, Republic of) - Socra AI

Recovering Missing Observations in Intensive Longitudinal Data using FPCA

» Ms. Mihyeon Kang (Korea, Republic of) - Pusan National University, [Prof. Seung Bin Cho](#) (Korea, Republic of) - Pusan National University

Correcting Publication Bias in Network Meta-Analysis: Extending Right-Truncated Meta-Analysis to the Network Setting

» [Ms. HyeWon Kim](#) (Korea, Republic of) - Korea University, Prof. Taehun Lee (Korea, Republic of) - Korea University

Type I Error Control and Power of the t-Test and the Wilcoxon-Mann-Whitney Test Across Skewness, Heteroscedasticity, and Sample Size Configurations

» [Ms. Minsun Cho](#) (Korea, Republic of) - Yonsei University, Prof. Han Joee Kim (Korea, Republic of) - Yonsei University

The Real Student's Score Discrepancies Considering External and Training Effects

» [Dr. Fathima Jaffari](#) (Saudi Arabia) - Education and Training Evaluation Commission, Prof. Khaleel Al-Harbi (Saudi Arabia) - Education and Training Evaluation Commission, Dr. Mohammed Alqabbaa (Saudi Arabia) - Education and Training Evaluation Commission

Testing Berry's Acculturation Framework: Researcher-Led Methods Versus Latent Variable Models

» [Ms. Ivelina Hristova](#) (United Kingdom) - London School of Economics and Political Science



Continued from Tuesday, 21 July

Evaluating the Ordinal Sensitivity of Ecological Indices: Reflective Versus Formative Weighting

» [Dr. Zonggui Li](#) (United States) - University of Maryland School of Pharmacy, Dr. Sara Daniel (United States) - University of Maryland School of Pharmacy, Ms. Nneka Okeke (United States) - University of Maryland School of Pharmacy, Ms. Jennifer Contreras (United States) - University of Maryland School of Pharmacy, Dr. Ester Villalonga-Olives (United States) - University of Maryland School of Pharmacy

The Effects of Differential Item Functioning on Classification Accuracy in Computerized Classification Testing

» [Ms. Shan Yu Lin](#) (Taiwan) - National Sun Yat-sen University, Mr. Bo-Hsien Hu (Taiwan) - National Sun Yat-sen University, Prof. Ching-Lin Shih (Taiwan) - National Sun Yat-sen University

Prompt Engineering for Evaluating Creativity with Multimodal Large Language Models

» [Dr. Jinmin Chung](#) (United States) - The University of Iowa, Ms. Haeju Lee (United States) - University of North Carolina, Dr. Sungyeun Kim (Korea, Republic of) - Incheon National University

Process-Based Validation of Cognitive Diagnostic Attributes using Eye-Tracking Data

» [Mr. Chunxi Zhang](#) (Taiwan) - National Taiwan Normal University, Prof. Po-Hsi Chen (Taiwan) - National Taiwan Normal University

Estimating Models with Low and No Variability Data in EMA: A Data Augmentation Approach

» [Ms. Sarah Pirani](#) (United States) - University of North Carolina at Chapel Hill, Dr. Kathleen Gates (United States) - University of North Carolina at Chapel Hill

The Evolution of the Hierarchical Framework for Modelling Speed and Accuracy on Test Items

» [Mrs. Irina Tkachenko](#) (Netherlands) - Tilburg University, Dr. Jesper Tijmstra (Netherlands) - Tilburg University, Dr. Maria Bolsinova (Netherlands) - Tilburg University, Prof. Jeroen Vermunt (Netherlands) - Tilburg University

Latent Structure of STEM Advocacy Competence: A Structural Equation Modeling Approach

» Dr. Jack Simons (United States) - Mercy University, [Dr. Shujin Zhong](#) (United States) - University of North Florida, Dr. Yoko Tanaka (Japan) - Kio University

Multilevel Mixture Causal Mediation Analysis: Theoretical Identification and Empirical Simulation

» [Mr. Dohyeon Lee](#) (Korea, Republic of) - Kyungpook National University, Prof. Jungkyu Park (Korea, Republic of) - Kyungpook National University

Dimension Selection for Conditional Dependence Analysis in the Latent Space Item Response Model

» [Ms. Oreum Hyun](#) (Korea, Republic of) - Yonsei University, Dr. Inhan Kang (Korea, Republic of) - Yonsei University

Evaluating Machine Learning as a Proxy for Human Scoring of Multiple-Source Argumentative Essays

» [Dr. Yuting Sun](#) (United States) - University of North Florida, Dr. Shujin Zhong (United States) - University of North Florida

Factored Regression Approach for Structural Equation Models with Non-Normal Continuous Data

» [Dr. Jiwon Kim](#) (United States) - Northwestern University

A Monte Carlo Evaluation of Causal Estimators under Functional Uncertainty

» [Ms. Eunjeong Song](#) (Korea, Republic of) - Korea University, Prof. Sehee Hong (Korea, Republic of) - Korea University

Using Person-Specific DSEM Parameters as Mediators of Intra-Individual Change with Random-Intercepts Vector Autoregressive (RIVAR) Mediation.

» [Mr. Cody Campen](#) (United States) - Pennsylvania State University, Dr. Timothy Brick (United States) - Pennsylvania State University, Dr. Ivan Jacob Agaloo Pesigan (United States) - Pennsylvania State University, Dr. Donna Coffman (United States) - University of South Carolina, Dr. Sunhye Bai (United States) - University of Oregon, Dr. Sy-Miin Chow (United States) - The Pennsylvania State University



Continued from **Tuesday, 21 July**

An Exploration of r-Squared Effect Size Measures in Mediation

» [Mr. Alexander Miles](#) (United States) - University of South Carolina, Dr. Amanda Fairchild (United States) - University of South Carolina, Dr. Dexin Shi (United States) - University of South Carolina

Applying Multidimensional Item Response Theory to the CESD-8 Depression Scale in the United Kingdom

» [Mr. Zhi Jie Lee](#) (United States) - The Ohio State University

Bayesian Monotone Inference for Restricted Latent Class Models

» [Mr. Haotian Ju](#) (United States) - University of Illinois Urbana-Champaign, Prof. Steven Culpepper (United States) - University of Illinois Urbana-Champaign, Prof. Yuexi Wang (United States) - University of Illinois Urbana-Champaign

Multiple Approaches for Exploratory Factor Analysis in Multilevel Construct

» [Dr. Mirim Kim](#) (Korea, Republic of) - Sungshin Women's University, Dr. Song Jung (Korea, Republic of) - Korea university

Application of Intersectional Routing in PISA 2022

» [Ms. SooHyun Park](#) (Korea, Republic of) - Ewha Womans University, Prof. Youn-Jeng Choi (Korea, Republic of) - Ewha Womans University, Dr. Kyung (Chris) T Han (United States) - Graduate Management Admission Council ®

Longitudinal Measurement Invariance in a Likert Burnout Scale

» [Dr. Soonbo Kwon](#) (Korea, Republic of) - Korea National University of Education, South Korea

MetaBART: Semiparametric Bayesian Sum-of-Trees Method in Meta-Analysis

» [Ms. Saeyan Yun](#) (United States) - Florida State University

Undergraduate Dropout Prediction: A Machine Learning Approach in NTU

» [Mr. Yi Hsuan Tseng](#) (Taiwan) - National Taiwan University, Prof. Kaiping Yao (Taiwan) - National Taiwan University

Predicting Undergraduate Academic Performance Using Social and Psychological Variables: A Machine Learning Approach

» [Prof. Kaiping Yao](#) (Taiwan) - National Taiwan University, Mr. Yi Hsuan Tseng (Taiwan) - National Taiwan University

Data Generation Mechanisms for Modeling Explicit Selection and Sample Selection Bias

» [Dr. Laura Jamison](#) (United States) - Naval Research Laboratory, Dr. Joseph Coyne (United States) - Naval Research Laboratory, Dr. Ciara Sibley (United States) - Naval Research Laboratory, Dr. Cyrus Foroughi (United States) - Naval Research Laboratory

Comparing Response Time Methods Within Biclustering Framework in Detecting Preknowledge

» [Mr. Shih Peng Chuang](#) (United States) - University of Illinois Urbana-Champaign, Prof. Justin L. Kern (United States) - University of Illinois Urbana-Champaign

AIG with Schema-Guided IPEM in Korean Essay Assessment

» [Mr. DongHyun Ko](#) (Korea, Republic of) - Yonsei University, Prof. Guemin Lee (Korea, Republic of) - Yonsei University

Multidimensional Mindfulness Scale for Upper-Elementary Students in South Korea

» [Ms. Soyeon Shin](#) (Korea, Republic of) - Yonsei University

Job Adjustment Mediation in Childcare Aptitude: A Longitudinal Study

» [Ms. Jieye Lee](#) (Korea, Republic of) - Ajou University, Ms. Seonju Lee (Korea, Republic of) - Ajou University, Prof. Younyoung Choi (Korea, Republic of) - Ajou University

Local Dependence in LCA and LPA: Detection and Modeling

» [Ms. Mingyeong Song](#) (Korea, Republic of) - Ewha Womans University, Prof. Su-Young Kim (Korea, Republic of) - Ewha Womans University

School Engagement and Jingle and Jangle Fallacies: Organizing Scientific Findings

» [Ms. Catalina Miranda Riquelme](#) (Chile) - Pontificia Universidad Católica de Chile; KU Leuven



Continued from **Tuesday, 21 July**

Context-Sensitive Item Variance in Adaptive Learning: a GAMM Approach

» [Dr. Jung Yeon Park](#) (United States) - George Mason University, [Dr. Hyejin Yoon](#) (United States) - George Mason University, [Ms. Dai Gu](#) (United States) - George Mason University

A Comparative Study of an IRT Residual-Based Framework for Detecting Item Parameter Drift in CAT

» [Ms. Bomin Chung](#) (Korea, Republic of) - Inha University, [Prof. Hwanggyu Lim](#), (Korea, Republic of) - Inha University, [Ms. Yeonu Kim](#) (Korea, Republic of) - Inha University

Mapping Peer Networks to Academic Performance Trajectories in a Flipped Statistics Classroom

» [Dr. Jamie Trost](#) (United States) - Brown University

Accuracy of Cutpoint Selection in Rasch Tree: A Simulation Study

» [Dr. Sujin Baeg](#) (Korea, Republic of) - Seoul National University, [Ms. Yejin Kim](#) (Korea, Republic of) - Seoul National University, [Prof. Hyun-Jeong Park](#) (Korea, Republic of) - Seoul National University

Comparing Response Processes in Select-all-that-Apply and Select-n Items

» [Dr. Sayaka Arai](#) (Japan) - National Center for University Entrance Examinations, [Dr. Kei Ito](#) (Japan) - National Center for University Entrance Examinations

On Neural Estimation of the Two-Parameter Logistic Model

» [Mr. Yunbo Yang](#) (United States) - The University of Chicago, [Prof. Yanyan Sheng](#) (United States) - The University of Chicago

Factor Structure of the Parentification Inventory

» [Mrs. Jun Kyung Kim](#) (United States) - Baylor University, [Dr. Sara Tomek](#) (United States) - Baylor University, [Prof. Lisa Hooper](#) (United States) - University of Northern Iowa

Predicting Student Achievement in Mathematics and Science Using Mixed Effects Random Forest and SHAP Analysis

» [Ms. Yoonchae Jeong](#) (Korea, Republic of) - Chungnam National University, [Prof. Hyewon Chung](#) (Korea, Republic of) - Chungnam National University

Bayesian Network Prediction of Functional Status in Older Adults

» [Ms. Seyoung Lim](#) (Korea, Republic of) - Ajou University, [Mr. Myeongbin Kim](#) (Korea, Republic of) - Ajou University, [Prof. Younyoung Choi](#) (Korea, Republic of) - Ajou University

Adolescent Cooperation Trajectories: Concurrent and Lagged Effects

» [Ms. Suin Noh](#) (Korea, Republic of) - Chungnam National University, [Prof. Hyewon Chung](#) (Korea, Republic of) - Chungnam National University

Before Work Begins: Developing and Validating the Work Rituals Scale

» [Dr. Tzu-Ting Lin](#) (Taiwan) - National Chengchi University

Modeling Dyadic Interdependence and Conditional Transmission Within Family Systems

» [Ms. Minseo Lee](#) (Korea, Republic of) - Sungshin Women's University, [Dr. Mirim Kim](#) (Korea, Republic of) - Sungshin Women's University

A Multilevel Generalized Linear Modeling (MGLM) Analysis of Linguistic Complexity and Cognitive Load in Mathematics Assessment: Focusing on Response Time Log Data from PISA 2022

» [Ms. Jeongin Cha](#) (Korea, Republic of) - Gyeongsang National University

Comparison of Overall and Level-Specific Fit in MSEM

» [Ms. Eunseo Pak](#) (Korea, Republic of) - Korea University, [Ms. Junseo Kim](#) (Korea, Republic of) - Korea University, [Dr. Haerim Yu](#) (Korea, Republic of) - Korea University, [Ms. Suemin Cho](#) (Korea, Republic of) - Korea University, [Ms. Giyun Kim](#) (Korea, Republic of) - Korea University

Estimating Item Difficulty with Large Language Models

» [Dr. Liahui Zhang](#) (China) - Beijing Normal University



Continued from **Tuesday, 21 July**

Hierarchical Models of Speed and Accuracy as Construct Validity Evidence

» [Mr. Walton Ferguson](#) (United States) - University of Notre Dame, Dr. Patrick Kirkland (United States) - University of Notre Dame, Prof. Alison Cheng (United States) - University of Notre Dame

A Geometric Evaluation of Construct Alignment in Automated Essay Scoring

» [Mr. JeeHun Sung](#) (Korea, Republic of) - MooWee-Lab

Validating Test Blueprints in Operational IRT

» Mr. Beltran Pantoja (United States) - University of Georgia, [Ms. Ashley Heady](#) (United States) - University of Georgia, Prof. Matthew Madison (United States) - University of Georgia

A Unified Theory of Validity for AI-Mediated Assessment

» [Dr. Tanesia Beverly](#) (United States) - Independent Researcher, Dr. Xiaoran Li (United States) - Independent Researcher

Bursti-CTVAR: A Bayesian Multilevel Continuous-Time VAR Model for Measurement Burst Designs

» [Ms. Xiaoyue Xiong](#) (United States) - The Pennsylvania State University, Prof. Charles Driver (Switzerland) - University of Zurich, Dr. Zachary Fisher (United States) - University of North Carolina at Chapel Hill, Dr. Sy-Miin Chow (United States) - The Pennsylvania State University

Latent Variables in Causal Inference

» [Ms. Nanxi Dong](#) (United States) - University of Maryland, College Park, Dr. Yang Liu (United States) - University of Maryland, Dr. Ji Seung Yang (United States) - University of Maryland

The SGM Advocacy Competence Scale: Scale Development and SEM Validation Grounded in Identity Behavior Theory

» [Dr. Jack Simons](#) (United States) - Mercy University, Dr. Shujin Zhong (United States) - University of North Florida, Dr. Yoko Tanaka (Japan) - Kio University

Bias Reduction in Dynamic Factor Models for Short Time Series

» [Mr. Yuanpeng Hu](#) (United States) - University of Notre Dame

Reconciling Theory and Practice in Reflective Measurement: Decomposing Loading-Dependent Bias and Restoring Structured Misfit

» [Mr. Miguel Bosch Francisco](#) (Spain) - Universidad Autónoma de Madrid

Protective Family Functioning in Intergenerational Depression Networks

» [Dr. Min Liu](#) (United States) - Baylor University, Dr. Sara Tomek (United States) - Baylor University, Dr. Mack Burke (United States) - Baylor University

Measurement and Structural Moderation Effects in Growth Models: A Bayesian Moderated Nonlinear Factor Analysis Approach

» [Dr. Suyoung Kim](#) (Korea, Republic of) - Gachon University

Frequently Asked Questions About Label Switching

» [Mr. Yanjia Geng](#) (United States) - University of California, Merced, Dr. Meng Qiu (United States) - University of California, Merced

An Application of MFRM to Rater Effects of BERT-Based AES

» [Mr. Junsik Sim](#) (Korea, Republic of) - Yonsei University, Prof. Guemin Lee (Korea, Republic of) - Yonsei University

Wednesday, 22 July

9am

Invited Speaker

Auditorium, Baekyang Hall

Chaired by: Prof. Jee-Seon Kim (United States)

Leveraging Regression Discontinuity Analysis with Latent Variable Models

» Professor Ji Seung Yang (United States) - University of Maryland



Continued from Wednesday, 22 July	
9am	Invited Speaker <i>Grand Ballroom, The Commons</i> Chaired by: Prof. Jingchen Liu (United States)
	New Statistical Frontiers in Cognitive Diagnostic Models: Deep Generative Structures, General Responses, and Tensor Unfolding » Professor Yuqi Gu (United States) - Columbia University
9:45am	Refreshment Break
10am	Lifetime Career Award <i>Auditorium, Baekyang Hall</i> Chaired by: Dr. Chun Wang (United States)
	From Asymptotic Posterior Normality to Computerized Adaptive Testing and Beyond: Innovations in Adaptive Testing and Personalized Learning Pathways » Professor Hua-Hua Chang (United States) - Purdue University
11am	Lunch (on your own) <i>Local establishments</i>
12:30pm	AI and IRT <i>Auditorium, Baekyang Hall</i> Chaired by: Dr. Ikkyu Choi (United States)
12:30pm	Uncovering Human-Large Language Model Rater Effects in Writing Assessment » <u>Mr. Cheng Tang</u> (United States) - University of Georgia, Ms. Jing Li (United States) - University of Georgia, Dr. Jiawei Xiong (United States) - University of Georgia, Prof. George Engelhard (United States) - University of Georgia

12:45pm	Psychometric Models and the Evaluation of Generative AI Performance » <u>Ms. Ashley Heady</u> (United States) - University of Georgia, Prof. Matthew Madison (United States) - University of Georgia, Dr. Savannah Thais (United States) - Hunter College CUNY
1pm	Rethinking Loss Functions for Psychometric Property Prediction: An ICC-Centered Approach » <u>Dr. Ikkyu Choi</u> (United States) - ETS, Dr. Michael Fauss (United States) - ETS
1:15pm	Prediction of Mathematics Item Difficulty using Two-Step Ensemble Model » <u>Dr. YoungKoung Kim</u> (United States) - College Board, Ms. Kinny Mu (United States) - College Board
1:30pm	Assessing Fairness and Measurement Invariance in AI-Based Automated Scoring » Dr. Ummugul Bezirhan (United States) - TIMSS and PIRLS International Study Center at Boston College, <u>Dr. Ji Yoon Jung</u> (United States) - TIMSS and PIRLS International Study Center at Boston College, Dr. Matthias von Davier (United States) - TIMSS and PIRLS International Study Center at Boston College
12:30pm	Advances in Psychometrics and Measurement <i>B125, Ballroom, The Commons</i> Chaired by: Dr. Daniel Bolt (United States)
12:30pm	Proficiency-Related Slipping and Guessing » <u>Dr. Daniel Bolt</u> (United States) - University of Wisconsin - Madison, Mr. Lionel Meng (United States) - University of Wisconsin - Madison
12:45pm	A Reliability-Corrected Adjusted R-Squared for Latent Regression » <u>Dr. Paul Jewsbury</u> (United States) - Duolingo, Inc., Dr. Alexander Tsigler (United States) - Duolingo, Inc., Dr. J.R. Lockwood (United States) - Duolingo, Inc.
1pm	Accounting for Skewness in Psychometrics: The Bayesian Skew-Normal IRT Family » <u>Dr. Jorge Bazán</u> (Chile) - Pontificia Universidad Católica de Chile



Continued from **Wednesday, 22 July**

1:15pm **Two Watches: Measurement Error Models for Discrepant Test Score Trends**

» [Prof. Andrew Ho](#) (United States) - Harvard University

1:30pm **Measurement Model Evaluation: Beyond Statistical Models**

» [Prof. Mark Wilson](#) (United States) - University of California, Berkeley, [Dr. Yukie Toyama](#) (United States) - University of California, Berkeley

12:30pm **Process Data**

B126, Ballroom, The Commons

Chaired by: [Dr. Susanne Frick](#) (Germany)

12:30pm **Cross-Classified Hidden Markov Models for Analyzing Response Strategies**

» [Dr. Susanne Frick](#) (Germany) - TU Dortmund University

12:45pm **A Joint Model for Responses and Response Times with Category-Specific Heterogeneity**

» [Dr. Xinyu Zhang](#) (China) - Northeast Normal University, [Prof. Xiangbin Meng](#) (China) - Northeast Normal University

1pm **Psychology-Informed Variational Recurrent Autoencoders for Exploratory Factor Analysis of Process Data**

» [Dr. Denis Federiakin](#) (Germany) - Johannes Gutenberg University Mainz, [Prof. Olga Zlatkin-Troitschanskaia](#) (Germany) - Johannes Gutenberg University Mainz, [Prof. Lidia Dobria](#) (United States) - Wilbur Wright College, Chicago, IL

1:15pm **When Conditioning Causes Bias: Endogeneity in Time-Augmented Item Response Models**

» [Dr. Weicong Lyu](#) (Macao) - University of Macau, [Dr. Mingya Huang](#) (United States) - The University of Chicago

1:30pm **Item Response Modeling for Online Learning Engagement with PCM Analysis**

» [Ms. Pin Hui Jiang](#) (Taiwan) - National Taiwan Normal University, [Prof. Po-Hsi Chen](#) (Taiwan) - National Taiwan Normal University

12:30pm **Cognitive Diagnostic Models**

B145, The Commons

Chaired by: [Dr. Jia Liu](#) (China)

12:30pm **Scalable Text-Embedding-Informed Cognitive Diagnosis of Large Language Models**

» [Dr. Jia Liu](#) (United States) - Columbia University, [Mr. Zhiyu Xu](#) (United States) - Columbia University, [Dr. Yuqi Gu](#) (United States) - Columbia University

12:45pm **TRACE-Q: A Multi-Agent LLM Pipeline for Responsible Q-Matrix Construction**

» [Mr. Weixuan Xiao](#) (United States) - Teachers College, Columbia University, [Dr. Chia-Yi Chiu](#) (United States) - Teachers College, Columbia University, [Dr. Charles Lang](#) (United States) - Teachers College, Columbia University

1pm **Aligning LLM-Generated Responses with Real Examinees: A Cognitive Diagnostic Profiling Approach**

» [Mr. Wenjie Zhou](#) (United States) - University of California, Berkeley, [Ms. Yunting Liu](#) (United States) - University of California, Berkeley, [Prof. Mark Wilson](#) (United States) - University of California, Berkeley

1:15pm **Identifying Attribute Hierarchies in Cognitive Diagnosis: A Stepwise Framework Integrating Graph-Theoretic Clustering and Constrained DAG Learning**

» [Ms. Hyunjoo Kim](#) (United States) - University of Illinois Urbana-Champaign, [Prof. Hans-Friedrich Koehn](#) (United States) - University of Illinois Urbana-Champaign

1:30pm **Multilayer Q-Matrix-Embedded Neural Network for Cognitive Diagnosis (M-QCDNet): Structure-Aware Deep Learning Architecture for Psychometric Interpretability**

» [Ms. Yiyao Yang](#) (United States) - Columbia University

12:30pm **Bayesian**

B146, The Commons

Chaired by: [Dr. Inhan Kang](#) (Korea, Republic of)



Continued from **Wednesday, 22 July**

12:30pm **Approximate Bayesian Inference for SEM: The INLA Approach**
 » [Dr. Haziq Jamil](#) (Saudi Arabia) - King Abdullah University of Science and Technology, Prof. Håvard Rue (Saudi Arabia) - King Abdullah University of Science and Technology

12:45pm **Selection of Random Effects in Intensive Longitudinal Data Analysis**
 » [Ms. Lijin Zhang](#) (United States) - Stanford University, Prof. Esther Ulitzsch (Norway) - University of Oslo, Prof. Yuyin Wang (China) - Sun Yat-sen University, Prof. Junhao Pan (China) - Sun Yat-sen University, Prof. Ben Domingue (United States) - Stanford University

1pm **Ultimate Pólya Gamma Samplers for Rank-2PL IRT models**
 » [Dr. Xue Zhang](#) (China) - Northeast Normal University

1:15pm **Decomposing Responses and Response Times into Latent Traits and Response Style by Integrating Psychometric and Computational Modeling**
 » [Dr. Inhan Kang](#) (Korea, Republic of) - Yonsei University

1:30pm **Sparse Error Covariance Estimation in Confirmatory Factor Analysis**
 » [Dr. Yi Jin](#) (Hong Kong) - The Education University of Hong Kong, Prof. Jinsong Chen (Hong Kong) - University of Hong Kong

12:30pm **Validity and Reliability**
B147, The Commons
 Chaired by: [Dr. Veronica Cole](#) (United States)

12:30pm **The Psychometrics of Prejudice and Stereotypes: Evaluating the Measurement**
 » [Ms. Anna Kubelková](#) (Czechia) - Institute of Psychology, Czech Academy of Sciences, [Dr. David Lacko](#) (Czechia) - Institute of Psychology, Czech Academy of Sciences, [Dr. Simona Olhová](#) (Czechia) - Institute of Psychology, Czech Academy of Sciences, [Dr. Adam Klocek](#) (Czechia) - Institute of Psychology, Czech Academy of Sciences, Prof. Sylvie Graf (Czechia) - Institute of Psychology, Czech Academy of Sciences

12:45pm **Revisiting the Structural Aspect of Validity: Relational Geometry and Structural Evaluation in Automated Assessment**
 » [Mr. Nam Keol Kim](#) (Korea, Republic of) - Yonsei University, [Dr. Ji Hoon Ryoo](#) (Korea, Republic of) - Yonsei University

1pm **Simpson's Paradox, Aggregation Issues, and Score Interpretations**
 » [Dr. Paul Westrick](#) (United States) - Retired

1:15pm **Combining Aggregated Probability and Non-Probability Estimates for Continuous Outcomes**
 » [Mrs. Ilaria Francesca Lunardelli](#) (Netherlands) - Tilburg University, Prof. Ton de Waal (Netherlands) - Tilburg University, [Dr. Lizbeth Burgos-Ochoa](#) (Netherlands) - Tilburg University, [Dr. Sander Scholtus](#) (Netherlands) - Statistics Netherlands

1:30pm **Response Styles in Measures of Affect Dynamics: A Multilevel IRT Approach**
 » [Dr. Veronica Cole](#) (United States) - Wake Forest University, [Dr. James Soland](#) (United States) - University of Virginia, [Dr. Christian Waugh](#) (United States) - Wake Forest University

12:30pm **Multivariate Analysis**
Room 101, School of Business
 Chaired by: [Dr. Tom Wilderjans](#) (Netherlands)

12:30pm **Fusing Real-Valued Three-Way Data with Binary Two-Way Data with Parafac-logPCA**
 » [Dr. Tom Wilderjans](#) (Netherlands) - Leiden University, [Dr. Elisa Frutos-Bernal](#) (Spain) - Universidad de Salamanca

12:45pm **Exploring Multiverse Analyses using Decision Trees**
 » [Mr. Michael Truong](#) (Canada) - York University, [Mr. Gabriel Crone](#) (Canada) - York University, [Dr. Ji Yeh Choi](#) (United Arab Emirates) - Canadian University Dubai



Continued from **Wednesday, 22 July**

1pm **Comparison of Three Different Scale Types on Marketing Research**

» [Ms. Anni Yeh](#) (Taiwan) - National Taiwan Normal University, Prof. Yao-Ting Sung (Taiwan) - National Taiwan Normal University, Prof. Po-Hsi Chen (Taiwan) - National Taiwan Normal University, Prof. Yung-Cheng Shen (Taiwan) - National Taiwan Normal University, Prof. Yeh-Tai Chou (Taiwan) - National Taiwan Normal University

1:15pm **Evaluating Profile Interpretability Under Continuous Latent Structure: A Confirmatory Factor Mixture Approach**

» [Ms. Siyuan Chen](#) (United States) - University of California, Santa Barbara, Dr. Karen Nylund-Gibson (United States) - University of California, Santa Barbara

1:30pm **Optimising Population-Structure Models in International Large-Scale Assessments**

» [Dr. Han Hui Por](#) (Australia) - Australian Council for Educational Research, Dr. Paul Jewsbury (United States) - Duolingo, Inc.

12:30pm **Network Psychometrics**

Room 102, School of Business

Chaired by: Dr. Eunsoo Lee (Korea, Republic of)

12:30pm **Why Ordinal Data Can Create Spurious Edges in Psychological Networks**

» [Dr. Kai Jannik Nehler](#) (Germany) - Goethe University, Frankfurt and HMU Health and Medical University Erfurt, Dr. Julien Patrick Irmer (Germany) - University of Freiburg, Freiburg, Prof. Martin Schultze (Germany) - Goethe University, Frankfurt

12:45pm **Retest Effects in Dynamic Network Models**

» [Mr. Hyungeun Oh](#) (United States) - The Pennsylvania State University, Dr. Sy-Miin Chow (United States) - The Pennsylvania State University, Dr. Michael Hunter (United States) - The Pennsylvania State University, Dr. Zita Oravecz (United States) - The Pennsylvania State University

1pm **A Comparison of Estimation Methods for Ordinal Data in Psychometric Networks**

» [Dr. Eunsoo Lee](#) (Korea, Republic of) - Korea Employment Information Service, Prof. Sehee Hong (Korea, Republic of) - Korea university

1:15pm **Dimensionality Recovery Across Structural Regimes: From Stochastic Block Models to Gaussian Graphical Representations**

» [Mr. Chi-Yun Deng](#) (Taiwan) - National Chengchi University, Prof. Hsiu-Ting Yu (Taiwan) - National Chengchi University

1:30pm **A Regularized Maximum Likelihood Estimation of High-Dimensional Network Models with Dynamic Latent Variables in the Context of Intensive Longitudinal Data**

» [Mr. Vivato Andriamiarana](#) (Germany) - Tübingen University, Mr. Kevin Kistermann (Germany) - University of Tübingen, Dr. Pascal Kilian (Germany) - University of Tübingen, Prof. Augustin Kelava (Germany) - Tübingen University

12:30pm **Causal Inference**

Room 103, School of Business

Chaired by: Dr. Lizbeth Burgos-Ochoa (Netherlands)

12:30pm **Detecting Hidden Confounders in Linear Non-Gaussian Models: A Comparison of Eight Tests of Independence**

» [Ms. Guyin Zhang](#) (United States) - University of South Carolina, Dr. Dexin Shi (United States) - University of South Carolina, Dr. Amanda Fairchild (United States) - University of South Carolina

12:45pm **Causal Mediation Analysis under Post-Treatment Confounding with Natural Effect Models**

» [Dr. Lizbeth Burgos-Ochoa](#) (Netherlands) - Tilburg University

1pm **Does X at Time 1 Cause Y at Time 2? Longitudinal Causal Learning with Hidden Confounders**

» [Dr. Dexin Shi](#) (United States) - University of South Carolina, Dr. Wolfgang Wiedermann (United States) - University of Missouri, Dr. Amanda Fairchild (United States) - University of South Carolina, Dr. Bo Zhang (United States) - University of Illinois Urbana-Champaign



Continued from **Wednesday, 22 July**

- 1:15pm **Two-Stage Bayesian and Frequentist Methods for Synthesizing Findings About the Indirect Effect in Single Case Mediation Analysis**
 » [Dr. Milica Miocevic](#) (Canada) - McGill University, Dr. Mariola Moeyaert (United States) - University at Albany, State University of New York, Ms. Sofia Maiz (Canada) - McGill University, Dr. Matthew Valente (United States) - University of South Florida
- 1:30pm **Conditional Instrumental Variable Estimation in Functional Linear Structural Equation Models**
 » [Dr. Michio Yamamoto](#) (Japan) - The University of Osaka
- 12:30pm **Novel Applications**
S504, 5th Floor, Baekyang Hall
 Chaired by: Dr. Jaroslav Hlinka (Czechia)
- 12:30pm **Complementing Measurement Decision Theory Using Bayesian Knowledge Tracing**
 » [Dr. Youngjun Lee](#) (United States) - The American Board of Anesthesiology, Dr. Susan Hibbard (United States) - The American Board of Anesthesiology
- 12:45pm **Assessing Data Quality in Standard Setting Through Detection of Nonadditivity**
 » [Dr. Cary Lin](#) (United States) - National Council of State Boards of Nursing, Prof. Jinming Zhang (United States) - University of Illinois at Urbana-Champaign
- 1pm **Time Centering and Unique Effect Partitioning in Parallel Processing Model**
 » [Ms. Xiaoyu Yang](#) (United States) - Texas A&M University, Mr. Oi-Man Kwok (United States) - Texas A&M University, Mr. Timothy Elliott (United States) - Texas A&M University
- 1:15pm **Time-Varying Mediation Effects for Time-Varying Treatments with Covariates**
 » [Dr. Donna Coffman](#) (United States) - University of South Carolina

- 1:30pm **On Seeking the Soul in Brain Connectivity Graphs: A Methodological Perspective on Personality Neuroscience**
 » [Dr. Jaroslav Hlinka](#) (Czechia) - Institute of Computer Science of the Czech Academy of Sciences
- 1:45pm **Walking Break**
- 2pm **Symposium: Causal Models, Artificial Intelligence, and Machine Learning**
Auditorium, Baekyang Hall
 Chaired by: Dr. Peter Steiner (United States)
- 2pm **Causal Pathways of Bias in Educational Algorithmic Decision-Making: Identification and Mitigation using DAGs**
 » [Dr. Soo lung La](#) (Korea, Republic of) - Seoul National University, Prof. Yongnam Kim (Korea, Republic of) - Seoul National University
- 2:15pm **Integrating Double Selection into Doubly Robust Estimators for Causal Inference**
 » [Mr. Muwon Kwon](#) (United States) - University of Maryland, College Park, Dr. Peter Steiner (United States) - University of Maryland, College Park
- 2:30pm **Augmenting Structured Survey Responses with Textual Data in Causal Research**
 » [Prof. Jee-Seon Kim](#) (United States) - University of Wisconsin - Madison, Dr. Lingbo Tong (United States) - University of Wisconsin - Madison, Ms. Madison Chambers (United States) - Michigan State University
- 2:45pm **From Noisy Estimates to Reliable Decisions: Shrinking Individual Treatment Effects for Targeted Interventions**
 » [Mr. Graham Buhrman](#) (United States) - University of Wisconsin - Madison, Prof. Jee-Seon Kim (United States) - University of Wisconsin - Madison
- 2pm **Symposium: Intersectionality in Psychometrics**
B125, Ballroom, The Commons
 Chaired by: Prof. Irini Moustaki (United Kingdom)



Continued from **Wednesday, 22 July**

2pm **Intersectionality in Psychometrics**
 » [Prof. Irini Moustaki](#) (United Kingdom) - London School of Economics

2:15pm **Quantitative Methods for Detecting Intersectional Differential Item Functioning**
 » [Dr. Chun Wang](#) (United States) - University of Washington

2:30pm **Intersectional Construct Validity: Modeling Structure and Invariance**
 » [Dr. Dakota Cintron](#) (United States) - Claremont Graduate University

2:45pm **Beyond Demographic Interactions: Sociological Insights on Socio-Structural Intersectionality**
 » [Prof. Ji Hye Kim](#) (Korea, Republic of) - Sogang University

2pm **Symposium: Model calibration under practical constraints**
B126, Ballroom, The Commons
 Chaired by: Dr. Shiyu Wang (United States)

2pm **Constructing Interpretable Scaling Models in Large-Scale Assessments**
 » [Mr. Motonori Oka](#) (United Kingdom) - London School of Economics, [Prof. Yunxiao Chen](#) (United Kingdom) - London School of Economics, [Dr. Matthias von Davier](#) (United States) - TIMSS & PIRLS International Study Center at Boston College

2:15pm **Variational Estimation for Multidimensional Item Response Theory under General Latent Variable Distributions**
 » [Mr. Chengyu Cui](#) (United States) - University of Michigan, Ann Arbor, [Mr. Taoyi Chen](#) (United States) - University of Michigan, Ann Arbor, [Dr. Chun Wang](#) (United States) - University of Washington, [Prof. Gongjun Xu](#) (United States) - University of Michigan, Ann Arbor

2:30pm **Adaptive Two-Point Design for Online Item Calibration**
 » [Mr. Jie Zhang](#) (China) - Jiangxi Normal University, [Dr. Shiyu Wang](#) (United States) - University of Georgia, [Dr. Zichu Liu](#) (United States) - Georgia State University, [Prof. Zhaosheng Luo](#) (China) - Jiangxi Normal University

2:45pm **Uncovering Residual Structure with Variational Autoencoders**
 » [Mr. Longfei Zhang](#) (China) - Beijing Normal University, [Prof. Ping Chen](#) (China) - Beijing Normal University, [Ms. Yingshi Huang](#) (United States) - University of California, Los Angeles, [Prof. Minjeong Jeon](#) (United States) - University of California, Los Angeles

3pm **Calibrating Item Response Theory Models with Limited Samples and Sparse Response Data**
 » [Dr. Shiyu Wang](#) (United States) - University of Georgia, [Mr. Cong Cheng](#) (United States) - University of Georgia, [Dr. Yuan Ke](#) (United States) - University of Georgia, [Dr. Zichu Liu](#) (United States) - Georgia State University

2pm **Cognitive Diagnostic Models**
B145, The Commons
 Chaired by: Prof. Jimmy de la Torre (Hong Kong)

2pm **Evaluating IRT and CDM Models and Q-Matrix via Predictive Metrics**
 » [Dr. Miguel A. Sorrel](#) (Spain) - Universidad Autónoma de Madrid, [Mrs. Anzhelika Stankova](#) (Spain) - Universidad Autónoma de Madrid, [Mr. Diego Iglesias](#) (Spain) - Universidad Autónoma de Madrid

2:15pm **Dual-Threshold Adaptive Learning Assessment**
 » [Dr. Sangbeak Ye](#) (United States) - Florida Atlantic University

2:30pm **Impact of Discrimination Configurations on Classification Accuracy of Polytomous Attributes**
 » [Mr. Zechu Feng](#) (Hong Kong) - University of Hong Kong, [Prof. Jimmy de la Torre](#) (Hong Kong) - University of Hong Kong



Continued from **Wednesday, 22 July**

2:45pm **Bayesian Variable Selection of Attribute- and Item-Level Covariates in DCMs with Attribute Hierarchies**
 » [Dr. Alfonso Martinez](#) (United States) - Fordham University, Mr. Fabio Setti (United States) - Fordham University, Ms. Zhixing Liu (United States) - Fordham University, Ms. Zixi Chen (United States) - Fordham University

3pm **Nonparametric Classification for Multiple-Choice Diagnostic Classification Models Using a Vectorized Approach**
 » [Dr. Kentaro Fukushima](#) (Japan) - The University of Osaka, Dr. Kensuke Okada (Japan) - The University of Tokyo

2pm **Computerized Adaptive Tests**
B146, The Commons
 Chaired by: Dr. Hyeon-Ah Kang (United States)

2pm **Distinguishing Subject-Matter Proficiency from Digital Navigation Proficiency in Computer-Based Tests**
 » [Ms. Eunjung Myoung](#) (United States) - Stanford University, Ms. Hyemin Park (United States) - University of California, Berkeley, Ms. Hansol Lee (United States) - Stanford University

2:15pm **Evaluating Item Utility for Technology-Enhanced Adaptive Testing**
 » [Dr. Hyeon-Ah Kang](#) (United States) - University of Texas at Austin

2:30pm **Sequential Change Point Detection in Adaptive Measure of Change**
 » [Mr. Raj Wahlquist](#) (United States) - University of Minnesota - Twin Cities, Dr. David Weiss (United States) - University of Minnesota - Twin Cities

2:45pm **Calibration-Free CD-CAT for Graded Attribute Profiles**
 » [Prof. Youn Seon Lim](#) (United States) - University of Cincinnati

3pm **Multidimensional Computer Adaptive Testing with Different Directional Composites.**
 » [Dr. Damon Bryant](#) (United States) - Morgan State University, Mr. Christopher Green (United States) - Morgan State University, Dr. Janine Haynes (United States) - Morgan State University, Dr. Kahlil King (United States) - University of Baltimore

2pm **Patient-Reported Outcomes**
B147, The Commons
 Chaired by: Dr. Emily Ho (United States)

2pm **Radiotherapy Dose-Finding to Balance Efficacy-Toxicity and Toxicity-Toxicity Trade-Offs in Head and Neck Cancer**
 » [Dr. Daniel Glazar](#) (United States) - Moffitt Cancer Center & Research Institute, Mr. Ryan Werthmann (United States) - Moffitt Cancer Center & Research Institute, Dr. Renee Brady-Nicholls (United States) - Moffitt Cancer Center & Research Institute

2:15pm **Impact of Exposure Control on the Efficiency and Score Precision of PROMIS Computer Adaptive Testing**
 » [Dr. Minji Lee](#) (United States) - Mayo clinic

2:30pm **Measuring Construct Severity in the Presence of Filter Items**
 » [Dr. Brooke Magnus](#) (United States) - Boston College

2:45pm **Prior-Driven Identification in a Two-Test Latent Class Model: Evaluating Diagnostic Accuracy of the PROMIS Mental Health Scale for Depression in Absence of a Reference Standard**
 » [Mr. Paul Petzold](#) (Germany) - Charité - Universitätsmedizin Berlin, Dr. Brittany Lapin (United States) - Cleveland Clinic Research, Dr. Felix Fischer (Germany) - Charité - Universitätsmedizin Berlin



Continued from **Wednesday, 22 July**

- 3pm **Norming of the NIH Toolbox Cognition Battery Version 3**
 » [Dr. Emily Ho](#) (United States) - Northwestern University, Dr. Y. Catherine Han (United States) - Northwestern University, Dr. Erica LaForte (United States) - Northwestern University, Dr. Aaron J. Kaat (United States) - Northwestern University, Dr. Elizabeth M. Dworak (United States) - Northwestern University, Dr. Berivan Ece (United States) - Northwestern University, Dr. Lihua Yao (United States) - Northwestern University, Dr. James Olsen (United States) - Northwestern University, Dr. Richard C. Gershon (United States) - Northwestern University
- 2pm **Machine Learning**
Room 101, School of Business
 Chaired by: Dr. HyeSun Lee (United States)
- 2pm **Disparity Impact Remover using Balanced Error Rate in DIF Contexts**
 » [Dr. HyeSun Lee](#) (United States) - California State University Channel Islands, Dr. Weldon Smith (United States) - California State University Channel Islands
- 2:15pm **High-Dimensional Multilevel Variable Selection: Post-Selection Inference Versus glmLasso**
 » [Mr. Sungmin Lee](#) (Korea, Republic of) - Korea National University of Education, Prof. Jin Eun Yoo (Korea, Republic of) - Korea National University of Education
- 2:30pm **A Simulation Study of Machine Learning Approaches to Network Community Detection**
 » [Mr. Jingyang Li](#) (United States) - University of Georgia, Prof. Zhenqiu Lu (United States) - University of Georgia
- 2:45pm **Principal Covariate Regression with Nuclear Norm Penalty**
 » [Mr. Kaiwen Liu](#) (Netherlands) - Leiden University, Dr. Wouter Weeda (Netherlands) - Leiden University, Prof. Mark de Rooij (Netherlands) - Leiden University

- 3pm **A Unified Regularized Estimation Framework for Item Response Theory Models**
 » [Mr. Pengyuan Yang](#) (Netherlands) - Tilburg University, Dr. Wilco Emons (Netherlands) - Tilburg University, Dr. Felix Clouth (Netherlands) - Tilburg University, Prof. Katrijn Van Deun (Netherlands) - Tilburg University
- 2pm **Estimation and Computational Methods**
Room 102, School of Business
 Chaired by: Dr. Sean Joo (United States)
- 2pm **A Conditional Exact Inference Method for Detecting DIF under Small Sample Sizes**
 » [Dr. Xiang Liu](#) (United States) - ETS, Dr. Mo Zhang (United States) - ETS
- 2:15pm **Validity Evidence for the Joint Thurstonian Models**
 » [Dr. Che Cheng](#) (Taiwan) - National Taiwan University, Mr. Hau-Hung Yang (Taiwan) - National Taiwan University, Prof. Yung-Fong Hsu (Taiwan) - National Taiwan University, Prof. Keng-Ling Lay (Taiwan) - National Taiwan University
- 2:30pm **Efficient Estimation of Trait Scores in Thurstonian IRT Models using Optimal Experimental Designs**
 » [Prof. Heinz Holling](#) (Germany) - University of Münster
- 2:45pm **Comparing IRT Scoring Approaches for Graded Multidimensional Forced-Choice Measures**
 » Dr. Lavanya Kumar (United States) - Graduate Management Admission Council, [Dr. Sean Joo](#) (United States) - University of Kansas, Dr. Stephen Stark (United States) - University of South Florida
- 3pm **Analysis of Local Influence and Person-Fit for Item Response Models**
 » [Mr. Ryan Lerch](#) (United States) - University of California, Los Angeles
- 2pm **Computation and Prediction**
Room 103, School of Business
 Chaired by: Dr. Xin Qiao (United States)



Continued from **Wednesday, 22 July**

2pm **Beyond Normality: Can We Identify True Latent Structure in IRT?**
 » [Dr. Xin Qiao](#) (United States) - University of South Florida, Dr. Cornelis Potgieter (United States) - Texas Christian University

2:15pm **Relative Importance Analysis of Categorical Predictors**
 » [Dr. Xin Gu](#) (China) - East China Normal University

2:30pm **A Machine Learning Framework for Exploratory Bifactor Dimensionality Assessment**
 » [Mr. Ahmed Kamala](#) (United Kingdom) - The University of Manchester, Mr. Todd Hartman (United Kingdom) - The University of Manchester

2:45pm **Regularized Longitudinal Structural Equation Modeling for Multigroup Panel Data**
 » [Mr. Shu-Yu Lin](#) (Netherlands) - Tilburg University, Prof. Katrijn Van Deun (Netherlands) - Tilburg University, Dr. Joran Jongerling (Netherlands) - Tilburg University, Dr. Katharina Loter (Netherlands) - Tilburg University

3pm **The Relationship Between Formative Assessment Test and National Assessment Results**
 » [Prof. Eman Al-Ruwaithi](#) (Saudi Arabia) - Education and Training Evaluation Commission, Dr. Nasser Resaini (Saudi Arabia) - Education and Training Evaluation Commission

2pm **Measurement Invariance**
S504, 5th Floor, Baekyang Hall
 Chaired by: Ms. Dayeon Lee (United States)

2pm **Trait Score Estimates under Measurement Non-Invariance: Bias in Correlations and Its Impact on Replicability**
 » [Mr. Stefan Inerle](#) (Germany) - TU Dortmund University, Mr. Felix Hansch (Germany) - TU Dortmund University, Prof. Eunike Wetzel (Germany) - RPTU University Kaiserslautern-Landau, Dr. Susanne Frick (Germany) - TU Dortmund University

2:15pm **Post-Selection Inference for Regularized Measurement Invariance Assessment Using Lasso**
 » [Ms. Dayeon Lee](#) (United States) - University of Maryland, Prof. Gregory R. Hancock (United States) - University of Maryland

2:30pm **The Potential of the Latent Space Item Response Model to Detect and Accommodate DIF**
 » [Mr. Vincent Eric Fischer](#) (Germany) - University of Mannheim, Mr. Timo Seitz (Germany) - University of Mannheim, Prof. Thorsten Meiser (Germany) - University of Mannheim

2:45pm **Challenging the Chimera: DIF - Serious Threat to Validity or Fabulous Beast of a Psychometric Fairytale?**
 » [Dr. Safir Yousofi](#) (Germany) - German Federal Employment Agency

3pm **Detecting the Presence of Person-Specific DIF-Effects with Penalisation Techniques in the Context of CML-Estimation**
 » [Mr. Can Güner](#) (Austria) - UMIT TIROL - The Tyrolean Private University, Dr. Clemens Daxler (Austria) - UMIT TIROL - The Tyrolean Private University

3:15pm **Refreshment Break**

3:30pm **Item Response Models**
Auditorium, Baekyang Hall
 Chaired by: Dr. Kylie Gorney (United States)

3:30pm **Answer Similarity Analysis in the Rasch Model**
 » [Dr. Kylie Gorney](#) (United States) - Michigan State University

3:45pm **Effect of Rater Assignment Designs on Measurement Precision in OSCE**
 » [Dr. Bowen Wang](#) (United States) - National Board of Chiropractic Examiners, Dr. Igor Himelfarb (United States) - National Board of Chiropractic Examiners, Dr. Nai-En Tang (United States) - National Board of Chiropractic Examiners

4pm **Diffusion Limit of the Two Parameter Logistic Model**
 » [Dr. Sourav Majumdar](#) (India) - Indian Institute of Technology Kanpur, Dr. Nivedita Bhaktha (India) - Indian Institute of Technology Kanpur



Continued from **Wednesday, 22 July**

4:15pm **Bayesian IRT-Based Continuous Norming with the R-Package IRTnorm**
 » [Ms. Hannah M. Heister](#) (Netherlands) - University of Groningen, Mr. Casper J. Albers (Netherlands) - University of Groningen, Ms. Marieke E. Timmerman (Netherlands) - University of Groningen

4:30pm **Revisiting Two Pathways to Asymmetry in IRT Models**
 » [Prof. Jorge Gonzalez](#) (Chile) - Pontificia Universidad Católica de Chile

3:30pm **Advances in Psychometrics for Automated Scoring: Models, Multimodality, and Methodological Innovations**
B125, Ballroom, The Commons
 Chaired by: Dr. Matthew Johnson (United States)

3:30pm **A Bayesian Nonparametric Model for Automated Scoring**
 » [Dr. Xiang Liu](#) (United States) - ETS, Dr. Michael Fauss (United States) - ETS

3:45pm **Automated Multimodal Response Evaluation Leveraging Foundation Models and Cross-Attention**
 » Dr. Akshay Badola (India) - ETS, [Dr. Ikkyu Choi](#) (United States) - ETS

4pm **Integrating Automated Scoring and IRT Calibration: Toward a Single-Stage Approach**
 » [Dr. Matthew Johnson](#) (United States) - ETS

3:30pm **Panel Discussion**
B126, Ballroom, The Commons
 Chaired by: Dr. Karoline Huth (Netherlands)

3:30pm **Standards, Transparency, and Responsibility in Methodological Research-the Role of Quantitative Psychologists Within the Broader Scientific Community**
 » [Dr. Karoline Huth](#) (Netherlands) - University of Amsterdam, Dr. Mijke Rhemtulla (United States) - University of California, Davis, Dr. Sacha Epskamp (Singapore) - National University of Singapore, Prof. Mirka Henninger (Switzerland) - University of Basel, Prof. Minjeong Jeon (United States) - University of California, Los Angeles, Prof. Nidhi Kohli (United States) - University of Minnesota - Twin Cities, Dr. Jonathan Park (United States) - University of California, Davis

3:30pm **Cognitive Diagnostic Models**
B145, The Commons
 Chaired by: Dr. Yon Soo Suh (United States)

3:30pm **Q-Matrix Source Effects on Local Dependence and Diagnostic Inference**
 » [Mr. Muhamad Firdaus Mohd Noh](#) (Malaysia) - Universiti Kebangsaan Malaysia, Prof. Mohd Effendi Ewan Mohd Matore (Malaysia) - Universiti Kebangsaan Malaysia, Dr. Nur Ainil Sulaiman (Malaysia) - Universiti Kebangsaan Malaysia

3:45pm **Unified Nonparametric Cognitive Diagnosis Framework for Polytomous Attributes**
 » [Ms. Hyunjee Oh](#) (United States) - Teachers College, Columbia University, Dr. Chia-Yi Chiu (United States) - Teachers College, Columbia University

4pm **Dynamic Attribute Hierarchies in Cognitive Diagnostic Models: A Continuous Latent Variable Approach**
 » [Dr. Jeongmin Ji](#) (Korea, Republic of) - Korea Institute for Curriculum and Evaluation

4:15pm **Deep Discrete Encoders for Identifiable Generative Modeling**
 » [Mr. Seunghyun Lee](#) (United States) - Columbia University, Dr. Yuqi Gu (United States) - Columbia University

4:30pm **Edge-Level Inference for Prerequisite Structures in Attribute Hierarchies**
 » [Dr. Yon Soo Suh](#) (United States) - NWEA, a division of HMH



Continued from **Wednesday, 22 July**

- 3:30pm **Multilevel**
B146, The Commons
Chaired by: Dr. Ehri Ryu (United States)
- 3:30pm **Level-Specific and Source-Specific R-Squared Measures in Cross-Classified Multilevel Models**
» [Ms. Yingchi Guo](#) (Canada) - University of British Columbia, Dr. Jason Rights (Canada) - University of British Columbia
- 3:45pm **R-Squared Difference in Multilevel Models**
» [Dr. Ehri Ryu](#) (United States) - Boston College
- 4pm **A Multilevel Modeling Approach to Network Diffusion in Alzheimer's Disease**
» [Ms. Hyeonseong Lee](#) (United States) - University of Maryland College Park, Dr. Tracy Sweet (United States) - University of Maryland College Park, Dr. Selena Wang (United States) - Indiana University
- 4:15pm **Robustness of Multilevel Models to Violations of Multivariate Normality**
» [Mr. Haoyang Chen](#) (Canada) - University of British Columbia, Dr. Edward Kroc (Canada) - University of British Columbia
- 4:30pm **Context-Dependent Scoring in EdTech: A Mixed-Effects Approach to Hint Penalty Calibration**
» [Dr. Dmitry Abbakumov](#) (Serbia) - Foxford
- 3:30pm **Equating**
B147, The Commons
Chaired by: Dr. Weldon Smith (United States)

- 3:30pm **Addressing Covariate Measurement Differences in Generalized Kernel Equating under the NEC Design**
» [Ms. Michaela Vařejková](#) (Czechia) - Institute of Computer Science of the Czech Academy of Sciences, Charles University, Prof. Patřicia Martinková (Czechia) - Institute of Computer Science of the Czech Academy of Sciences, Ms. Eva Potužníková (Czechia) - Charles University
- 3:45pm **Stability of Scale Transformations in Multi-Group IRT Calibration**
» [Ms. Dogyeong Kim](#) (Korea, Republic of) - Hallym University, Prof. Dong Gi Seo (Korea, Republic of) - Hallym University
- 4pm **Divergence-Based Estimation of Item Response Theory Equating Coefficients**
» [Ms. Satoko Imaizumi](#) (Japan) - The University of Tokyo, Dr. Kensuke Okada (Japan) - The University of Tokyo
- 4:15pm **Linking Dichotomous and Continuous: Item Characteristic and Test Characteristic Curves**
» [Dr. Weldon Smith](#) (United States) - California State University Channel Islands, Dr. HyeSun Lee (United States) - California State University Channel Islands
- 4:30pm **Implementing Statistical Equating using Item Response Theory for Standard Setting in a High-Stakes Licensure Examination Setting.**
» [Dr. Neil Rice](#) (United Kingdom) - Kaplan Assessments
- 3:30pm **Artificial Intelligence and Machine Learning**
Room 101, School of Business
Chaired by: Dr. Jungmin Lee (Korea, Republic of)
- 3:30pm **Deep Learning-Based Early Detection of Stress-Induced Physical Activity Decline**
» [Ms. Young Won Cho](#) (United States) - The Pennsylvania State University, Dr. Sy-Miin Chow (United States) - The Pennsylvania State University, Dr. Steriani Elavsky (Czechia) - University of Ostrava



Continued from **Wednesday, 22 July**

3:45pm **Leveraging Machine Learning for Clustered Data: Model Development and Application to Examining the Impact of COVID-19 on Student Mathematics Achievement**

» [Dr. Xuelan Qiu](#) (Macao) - City University of Macau, Ms. Jin Yuan (China) - Lanzhou University, Dr. Jinran Wu (Australia) - University of Queensland, Prof. Weide Li (China) - Lanzhou University, Dr. Jiesi Guo (Australia) - Australian Catholic University, Prof. Frederick K. S. Leung (China) - Beijing Normal University

4pm **Explainable AI Requires Explainable Data First**

» [Ms. Jinyoung Kim](#) (Korea, Republic of) - Korea University, Prof. Taehun Lee (Korea, Republic of) - Korea University

4:15pm **Identifying High-Risk Youth NEET Trajectories in Korea: Time-Aware Modeling with Linked Administrative Data**

» [Dr. Jungmin Lee](#) (Korea, Republic of) - Korea Labor Institute

4:30pm **Interpretable Affect Forecasting using Personal Embedding-Based Convolutional Attention Neural Network**

» [Mr. Iyotirmoy Nirupam Das](#) (United States) - The Pennsylvania State University, Dr. Sy-Miin Chow (United States) - The Pennsylvania State University, Ms. Young Won Cho (United States) - The Pennsylvania State University, Dr. Soundar Kumara (United States) - The Pennsylvania State University

3:30pm **Latent Class Models**

Room 102, School of Business

Chaired by: Dr. Felix Clouth (Netherlands)

3:30pm **Stepwise Estimation of Deep Latent Class Models with Covariates**

» [Dr. Felix Clouth](#) (Netherlands) - Tilburg University

3:45pm **A Mixture Model for Careless Responding in Repeated Single-Item Measures**

» [Ms. Alicia Gernand](#) (Germany) - RPTU University Kaiserslautern-Landau, Prof. Tanja Lischetzke (Germany) - RPTU University Kaiserslautern-Landau, Prof. Esther Ulitzsch (Norway) - University of Oslo

4pm **Multilevel Joint Latent Class Analysis of Multi-Informant Mental Health Patterns**

» [Dr. Depeng Jiang](#) (Canada) - University of Manitoba, Ms. Mst Farzana Akter (Canada) - University of Manitoba

4:15pm **Identification of Careless Responses and their Patterns in Low-Stake Assessment**

» [Dr. Meereem Kim](#) (Korea, Republic of) - Chonnam National University, Dr. Yoonsun Jang (Korea, Republic of) - Daegu National University of Education

4:30pm **Nonparametric Classification for Ordinal Items with Heterogeneous Attribute Interactions**

» [Mr. Joemari Olea](#) (United States) - University of Texas at Austin, Dr. Hyeon-Ah Kang (United States) - University of Texas at Austin

3:30pm **Multilevel**

Room 103, School of Business

Chaired by: Prof. Francesco Scalone (Italy)

3:30pm **Dynamic Modeling of Cognitive Functioning in Later Life: A DSEM Analysis of Social, Economic, and Health Determinants Using SHARE**

» [Prof. Francesco Scalone](#) (Italy) - University of Bologna

3:45pm **Position Dependent Item Parameters in Randomized Test Designs**

» [Dr. Nivedita Bhaktha](#) (India) - Indian Institute of Technology Kanpur, Dr. Sourav Majumdar (India) - Indian Institute of Technology Kanpur

4pm **Single-Item Reliability for Intensive Longitudinal Data**

» [Mr. Tzu-Yao Lin](#) (Belgium) - KU Leuven, Prof. Francis Tuerlinckx (Belgium) - KU Leuven, Prof. Sophie Vanbelle (Netherlands) - Maastricht University

4:15pm **EIRM with gmmLasso for Large-Scale Assessment in Education**

» [Mr. Hyeong Gwan Kim](#) (Korea, Republic of) - Korea National University of Education, Prof. Jin Eun Yoo (Korea, Republic of) - Korea National University of Education



Continued from **Wednesday, 22 July**

4:30pm **Leveling Up? the Impact of Nested Data and Modeling Decisions on Ability Estimates**

» [Mr. Himilcon Inciarte](#) (United States) - University of California, Berkeley, Prof. Sophia Rabe-Hesketh (United States) - University of California, Berkeley, Ms. Qing Cai (United States) - University of California, Berkeley

3:30pm **Measurement Invariance**

S504, 5th Floor, Baekyang Hall

Chaired by: Dr. Yu-Wei Chang (Taiwan)

3:30pm **Itemwise and Global Equivalence Testing for DIF in Rasch Models**

» [Mr. David Kronthaler](#) (Switzerland) - University of Zurich, Dr. Carolin Strobl (Switzerland) - University of Zurich

3:45pm **Bayesian Inference with Spike-and-Slab Priors for Differential Item Functioning Detection in a Multiple-Group IRT Tree Model**

» [Dr. Yu-Wei Chang](#) (Taiwan) - National Chengchi University

4pm **The Effects of Regularization and Algorithm Settings to EGA in DIF Assessment**

» [Dr. Chi-Chen Chen](#) (Taiwan) - National Academy for Educational Research, Prof. Ching-Lin Shih (Taiwan) - National Sun Yat-sen University, Dr. Kuan-Yu Jin (Hong Kong) - Hong Kong Examinations and Assessment Authority

4:15pm **The Impact of Slow Non-Effortful Responding on Differential Item Functioning**

» [Ms. Wei-Chia Su](#) (Taiwan) - National Sun Yat-sen University

4:30pm **Operational Definitions as Measurement Models**

» [Dr. David Woollard](#) (United States) - Standard AI, Mr. Igor Moiseev (United States) - Standard AI

4:45pm **Walking Break**

5pm **Symposium: AI and machine learning**

Auditorium, Baekyang Hall

Chaired by: Dr. Qiwei He (United States)

5pm **Advancing Sequential Process Data Clustering with Image Processing in Interactive Assessments**

» [Dr. Qiwei He](#) (United States) - Georgetown University, Ms. Binhui Chen (United States) - Georgetown University

5:15pm **Model Fit and Parameter Uncertainty in Variational Autoencoder Based Latent Variable Models**

» [Mr. Karel Veldkamp](#) (Netherlands) - University of Amsterdam

5:30pm **Agentic Automated Item Generation: A Framework and Evaluation**

» [Dr. Rudolf Debelak](#) (Switzerland) - University of Zurich / EPFL, Mr. Rasmus Jensen (Switzerland) - ETH Zurich / IBE

5:45pm **An AI Chatbot for Sleep Promotion**

» [Prof. Jingchen Liu](#) (United States) - Columbia University, Prof. Xiaoyue Liu (United States) - New York University

5pm **Symposium: AI-Driven Prediction of Item Parameters in Large-Scale Diagnostic Assessment**

B125, Ballroom, The Commons

Chaired by: Prof. Jae-Chun Ban (Korea, Republic of)

5pm **Predicting Item Parameter Categories Using Content and GenAI Linguistic Features**

» [Dr. Hyung Jin Kim](#) (United States) - National Council of State Boards of Nursing, Mr. Young-Chan Lee (Korea, Republic of) - Chungnam National University

5:15pm **Item Difficulty Prediction Using LLM-Derived Item Text Features**

» [Mr. Seungwon Shin](#) (United States) - The University of Iowa, Ms. Mikyung Lee (Korea, Republic of) - Chungnam National University



Continued from **Wednesday, 22 July**

5:30pm **IRT Scoring with Machine-Learning-Predicted Item Parameters: An Iterative Parameter Updating Approach**

» Prof. Won-Chan Lee (United States) - The University of Iowa, Prof. Stella Kim (United States) - University of North Carolina at Charlotte, Ms. Yeonju Lee (United States) - The University of Iowa, Mr. Seungwon Shin (United States) - The University of Iowa

5:45pm **A Comparative Study of Machine Learning Models for Predicting Item Difficulty in Korean Language Basic Academic Skills Assessments Using Expert-Extracted Item Features**

» Prof. Jae-Chun Ban (Korea, Republic of) - Chungnam National University, Dr. Sun Kim (Korea, Republic of) - Chungnam National University, Ms. Eunbin Kim (Korea, Republic of) - Chungnam National University, Ms. Yewon Park (Korea, Republic of) - Chungnam National University

6pm **Evaluating Inferential Statistics Filtering for Feature Selection in High-Dimensional Data for Euclidean Distance-Based Item Parameter Prediction**

» Ms. Yeonju Lee (United States) - The University of Iowa, Mr. Juyoung Jung (United States) - The University of Iowa

5pm **Symposium: Advances in Bayesian SEM**

B126, Ballroom, The Commons

Chaired by: Dr. Xinya Liang (United States)

5pm **Frequentist and Bayesian Fit when Assumption in LBCM is Violated**

» Dr. Chunhua Cao (United States) - University of Alabama, Mr. Christopher Ocheni (United States) - University of Alabama, Mr. Daniel Oyeniran (United States) - University of Alabama

5:15pm **Residual Variance Non-Invariance in Latent Change Score Models: A Comparison of Maximum Likelihood and Bayesian Estimation**

» Mr. Gregg Campbell (United States) - Florida State University, Dr. Yanyun Yang (United States) - Florida State University

5:30pm **Bayesian Nonparametric Approach to Nonlinear Multiple Mediation Analysis**

» Ms. Siyi Wang (China) - Sun Yat-sen University, Mr. Qijin Chen (China) - Sun Yat-sen University, Prof. Junhao Pan (China) - Sun Yat-sen University, Prof. Edward H. Ip (United States) - Wake Forest School of Medicine

5:45pm **Bayesian Latent Mediation Regularization via LASSO, Horseshoe, Spike-and-Slab**

» Dr. Ethan Harris (United States) - University of Arkansas, Dr. Xinya Liang (United States) - University of Arkansas

6pm **Kullback-Leibler and Jensen-Shannon Divergences as Bayesian Discrepancy Functions for SEM**

» Mr. Ejike Edeh (United States) - University of Arkansas, Dr. Xinya Liang (United States) - University of Arkansas

5pm **Symposium: Advances in Intensive Longitudinal Data Analysis**

B145, The Commons

Chaired by: Mr. Bing Cai Kok (United States)

5pm **Network Mapping with Implicit Gradients**

» Mr. Bing Cai Kok (United States) - University of North Carolina at Chapel Hill, Dr. Zachary Fisher (United States) - University of North Carolina at Chapel Hill, Dr. Kathleen Gates (United States) - University of North Carolina at Chapel Hill

5:15pm **Adaptive Structural Equation Modeling for Idiographic Dynamic Processes via Meta-Learning**

» Ms. Chaewon Lee (United States) - University of North Carolina at Chapel Hill, Dr. Kathleen Gates (United States) - University of North Carolina at Chapel Hill

5:30pm **Measuring Dynamics with Static Tools: Ising-Generated Data Challenges Classical Psychometrics and Temporal Invariance**

» Ms. Sigi Sun (United States) - University of Virginia, Ms. Lindley Slipetz (United States) - University of Virginia, Dr. Teague Henry (United States) - University of Virginia



Continued from **Wednesday, 22 July**

5:45pm

Hierarchical Reliability and Stability of Dynamic Functional Connectivity in Multi-Session, Multi-Subject fMRI

» [Dr. Ai Ye](#) (Germany) - Max Planck Institute for Human Development, Dr. Claire Pauley (Germany) - Max Planck Institute for Human Development, Ms. Kim Falkenstein (Germany) - Max Planck Institute for Human Development, Prof. Simone Kühn (Germany) - Max Planck Institute for Human Development, Prof. Ulman Lindenberger (Germany) - Max Planck Institute for Human Development

5pm

AI and Validity

B146, The Commons

Chaired by: Dr. Hong Jiao (United States)

5pm

Investigation of the Effects of Scoring on the AES Model Performance and Interpretation

» [Mr. Jeongheum Cho](#) (Korea, Republic of) - Yonsei University, Dr. Ji Hoon Ryoo (Korea, Republic of) - Yonsei University

5:15pm

Improving the Measurement Quality of LLM-Based Automated Essay Scoring

» [Dr. Haeyeon Ahn](#) (Korea, Republic of) - Korea National Open University

5:30pm

From Single-Pass Deployment to Robust Scoring: Repeatability and Severity Shifts in GPT-4o-Mini for Automated Scoring of Music Analysis

» [Mr. Baicheng Lin](#) (Korea, Republic of) - Sejong University, Ms. Lingxi Jin (Korea, Republic of) - Ewha Womans University, Prof. Kyung-Seok Min (Korea, Republic of) - Sejong University

5:45pm

When Does Retrieval Improve LLM-Based Item Generation? Parent-Item Quality as a Boundary Condition for Construct Validity

» [Dr. Jinnie Shin](#) (United States) - University of Florida, Mr. Zhe Li (United States) - University of Florida, Ms. Anna Pauline Aguinalde (United States) - University of Florida, Mr. Lingchen Kong (United States) - University of Florida, Ms. Amanda Wilson (United States) - University of Florida, Dr. Mary Bratsch-Hines (United States) - University of Florida

6pm

Multitask Modeling of Item Difficulty and Content Alignment in Large-Scale Assessment

» [Dr. Hong Jiao](#) (United States) - University of Maryland, Ms. Xinyi Wang (China) - Beijing Normal University, Ms. Hanna Choi (United States) - University of Maryland, Ms. Sydney Peters (United States) - University of Maryland

5pm

Computerized Adaptive Tests

B147, The Commons

Chaired by: Dr. Tianjun Sun (United States)

5pm

Traditional Progressive Tests with Stopping Rules from Computerized Adaptive Testing: Do Potential Advantages Outweigh Added Complexity?

» [Ms. Jianan Chen](#) (Norway) - Centre for Educational Measurement, University of Oslo, Dr. Johan Braeken (Norway) - Centre for Educational Measurement, University of Oslo

5:15pm

Sequential Change Point Detection for Continuous Adaptive Online Testing

» [Dr. Yawen Ma](#) (United Kingdom) - Lancaster University, Dr. Gabriel Wallin (United Kingdom) - Lancaster University

5:30pm

Adaptive Measurement of Numerical Reasoning in Incoming University Students

» [Dr. María Dolores Nieto](#) (Spain) - Universidad Autónoma de Madrid, Dr. Juan F. Luesia (Spain) - Universidad Loyola Andalucía, Dr. Milagrosa Sánchez Martín (Spain) - Universidad Loyola Andalucía



Continued from **Wednesday, 22 July**

5:45pm **Semantic Utility Modeling for Optimizing Open-Ended Psychological Measurement**
 » Ms. Zihan Yan (United States) - University of Illinois Urbana-Champaign, Dr. Ashley Sylvara (United States) - University of Florida, Dr. Tianjun Sun (United States) - Rice University, Dr. Susu Zhang (United States) - University of Illinois Urbana-Champaign, Dr. Ziang Xiao (United States) - Johns Hopkins University

6pm **A New CAT Model Fit for Language Testing of Beginners**
 » Mr. Christian Bourassa (Canada) - Université de Montréal, Dr. Sébastien Béland (Canada) - Université de Montréal, Dr. Christophe Chénier (Canada) - Université de Montréal

6:15pm **Walking Break**

6:20pm **Graduate Student Session**
Auditorium, Baekyang Hall
 Chaired by: Ms. Aditi M Bhangale (Netherlands)

Thursday, 23 July

9am **Invited Speaker**
Auditorium, Baekyang Hall
 Chaired by: Prof. Francis Tuerlinckx (Belgium)

Rethinking the measurement and analysis of multilevel and longitudinal data through psychometrics and machine learning
 » Professor Mirka Henninger (Switzerland) - University of Basel

9am **Invited Speaker**
Grand Ballroom, The Commons
 Chaired by: Dr. Ji Hoon Ryoo (Korea, Republic of)

Structural Equation Modeling With Both Factors and Components
 » Professor Heungsun Hwang (Canada) - McGill University

9:45am **Refreshment Break**

10am **Keynote Speaker**
Auditorium, Baekyang Hall
 Chaired by: Prof. Steven Culpepper (United States)

Advancing the Science and Engineering of Intelligence: From Network Neuroscience to Interventions for Precision Health
 » Aron Keith Barbey (United States) - University of Notre Dame

11am **Lunch (on your own)**
Local establishments

12:30pm **Dissertation Prize**
Auditorium, Baekyang Hall
 Chaired by: Prof. Irini Moustaki (United Kingdom)

Robust Categorical Data Analysis
 » Dr. Max Welz (Switzerland) - University of Zurich

1:15pm **Group Photo**

1:45pm **Presidential Panel Discussion**
Auditorium, Baekyang Hall
 Chaired by: Dr. Sandip Sinharay (United States) and Dr. Ji Seung Yang (United States)



Continued from **Thursday, 23 July**

Psychometrika at 90: Past, Present, and Future

» [Dr. Sandip Sinharay](#) (United States) - ETS, [Dr. Ji Seung Yang](#) (United States) - University of Maryland, [Prof. Klaas Sijtsma](#) (Netherlands) - Tilburg University, [Prof. David Thissen](#) (United States) - University of North Carolina at Chapel Hill, [Dr. Daniel Bolt](#) (United States) - University of Wisconsin - Madison, [Dr. Matthew Johnson](#) (United States) - ETS, [Prof. Alison Cheng](#) (United States) - University of Notre Dame, [Dr. Inhan Kang](#) (Korea, Republic of) - Yonsei University, [Prof. Yunxiao Chen](#) (United Kingdom) - London School of Economics, [Prof. Stella Kim](#) (United States) - University of North Carolina at Charlotte

1:45pm

Symposium: Advances in SEM I

B125, Ballroom, The Commons

Chaired by: [Dr. Florian Schuberth](#) (Netherlands)

1:45pm

Nested Model Comparisons to Distinguish Common Factors from Composites

» [Dr. Mijke Rhemtulla](#) (United States) - University of California, Davis, [Ms. Danielle Siegel](#) (United States) - University of California, Davis

2pm

Specifying Composites in Structural Equation Modeling: Traditional, Recent and New Approaches

» [Dr. Florian Schuberth](#) (Netherlands) - University of Twente, [Prof. Jörg Henseler](#) (Netherlands) - University of Twente, [Dr. Xi Yu](#) (Netherlands) - University of Twente, [Dr. Tamara Schamberger](#) (Germany) - University of Bielefeld, [Prof. Gregory R. Hancock](#) (United States) - University of Maryland

2:15pm

Robust Recursive SEM with IGSCA Trees

» [Mr. Michael Truong](#) (Canada) - York University, [Dr. Florian Schuberth](#) (Netherlands) - University of Twente, [Dr. Ji Yeh Choi](#) (United Arab Emirates) - Canadian University Dubai, [Dr. David Flora](#) (Canada) - York University

2:30pm

Teaching an Old Dog New Tricks: Item Parceling in a Single, Integrative Step

» [Dr. Xi Yu](#) (Netherlands) - University of Twente, [Dr. Florian Schuberth](#) (Netherlands) - University of Twente, [Prof. Todd D. Little](#) (United States) - Texas Tech University, [Prof. Jörg Henseler](#) (Netherlands) - University of Twente

2:45pm

Factor- and Composite-Based Structural Equation Modeling: A New Approach to Incorporate Composites in the Traditional SEM Framework

» [Dr. Tamara Schamberger](#) (Germany) - University of Bielefeld, [Dr. Florian Schuberth](#) (Netherlands) - University of Twente, [Prof. Jörg Henseler](#) (Netherlands) - University of Twente, [Prof. Yves Rosseel](#) (Belgium) - Ghent University

1:45pm

Symposium: Measurement Non-Invariance

B126, Ballroom, The Commons

Chaired by: [Prof. Patřicia Martinkova](#) (Czechia) and [Dr. Gabriel Wallin](#) (United Kingdom)

1:45pm

Beyond Individual DIF: A Social Network Framework for Identifying Structured Patterns of Non-Invariance

» [Dr. Adela Hladka](#) (Czechia) - Institute of Computer Science of the Czech Academy of Sciences, [Dr. Sebastien Beland](#) (Canada) - Universite de Montreal

2pm

Addressing Measurement Error in Treatment-Related Differential Item Functioning

» [Prof. Patřicia Martinkova](#) (Czechia) - Institute of Computer Science of the Czech Academy of Sciences, [Prof. Marie-Ann Sengewald](#) (Germany) - Friedrich-Alexander-University Erlangen-Nurnberg, [Ms. Michaela Vařejkova](#) (Czechia) - Institute of Computer Science of the Czech Academy of Sciences, [Dr. Adela Hladka](#) (Czechia) - Institute of Computer Science of the Czech Academy of Sciences

2:15pm

Discrete Nonparametric Priors in CFA: Within-Group Invariance Analysis

» [Dr. Giuseppe Mignemi](#) (Italy) - Kore University, [Prof. Patřicia Martinkova](#) (Czechia) - Institute of Computer Science of the Czech Academy of Sciences



Continued from Thursday, 23 July

- 2:30pm **DIF Analysis with Unknown Groups and Anchor Items for Asymmetric IRT Models**
 » [Dr. Gabriel Wallin](#) (United Kingdom) - Lancaster University, Dr. Qi (Helen) Huang (United States) - Purdue University
- 2:45pm **Continuous DIF under Monotonicity Constraints: Methodological Challenges and Solutions**
 » [Ms. Michaela Cichrová](#) (Czechia) - Institute of Computer Science, Czech Academy of Sciences; Faculty of Mathematics and Physics, Charles University, Prof. [Patřicia Martinková](#) (Czechia) - Institute of Computer Science, Czech Academy of Sciences; Faculty of Education, Charles University
- 1:45pm **AI and LLMs**
B145, The Commons
 Chaired by: Dr. Jinho Kim (Korea, Republic of)
- 1:45pm **Responsible Health AI: Psychometric Validation of a Novel Health Information Quality Assessment Tool for Generative AI**
 » [Dr. Hamsa Subramaniam](#) (United States) - Google, Dr. Sarah Montgomery-Taylor (United Kingdom) - Google, Ms. Stella Yeoum (United States) - Google, Dr. Jeremy Miles (United States) - Google, Dr. Jim Taylor (United States) - Google
- 2pm **Sociocognitive Theory Implications on Assessment on the AI (AoA) Framework**
 » [Prof. Jaehwa Choi](#) (United States) - George Washington University, Ms. Rachel Choi (United States) - Cornell University
- 2:15pm **Evaluating the Feasibility of LLM-Based Automated Essay Scoring Under Different Score Distributions**
 » [Dr. Ji Won Yang](#) (Korea, Republic of) - Seoul National University, Dr. Gyeongmee Gim (Korea, Republic of) - Seoul National University, Prof. Jooyong Park (Korea, Republic of) - Seoul National University

- 2:30pm **A Generalizable Large Language Model for Real-Time Mental Health Risk Forecasting via Digital Phenotyping**
 » [Ms. Xiaohui Luo](#) (China) - Beijing Normal Univeristy, Prof. Hongyun Liu (China) - Beijing Normal Univeristy
- 2:45pm **An Extended Technology Acceptance Model of Generative AI for Learning**
 » [Dr. Jinho Kim](#) (Korea, Republic of) - University of Seoul, Mrs. Eunjung Jung (Korea, Republic of) - University of Seoul
- 1:45pm **Item Response Theory**
B146, The Commons
 Chaired by: Prof. Marie Wiberg (Sweden)
- 1:45pm **Collateral Information from Response Time: Effects of Test Length**
 » [Mr. Walton Ferguson](#) (United States) - University of Notre Dame, Prof. Alison Cheng (United States) - University of Notre Dame
- 2pm **A Multi-Faceted Multidimensional Unfolding Model for Examining Rater Preferences**
 » [Dr. Kuan-Yu Jin](#) (Hong Kong) - Hong Kong Examinations and Assessment Authority, Dr. Jue Wang (Hong Kong) - Hong Kong Examinations and Assessment Authority
- 2:15pm **Stabilizing Item Parameter Estimation under Null Categories**
 » [Ms. Chae-eun Kim](#) (Korea, Republic of) - Hallym University
- 2:30pm **Evaluating Item Difficulty Stability Across Test Forms in a Cluster-Rotation Design**
 » [Dr. Van Nguyen](#) (Australia) - Australian Council for Educational Research
- 2:45pm **The Impact of Linkage Plan Choice on Observed-Score Equating**
 » [Prof. Marie Wiberg](#) (Sweden) - Umeå University
- 1:45pm **Latent Class Models**
B147, The Commons
 Chaired by: Dr. Michael Ilagan (Canada)



Continued from **Thursday, 23 July**

- 1:45pm **A Robust Sample-Ratio Correction for Measurement Invariance with Unbalanced Samples**
 » [Ms. Teddy Chen](#) (United States) - University of California, Davis, Dr. Mijke Rhemtulla (United States) - University of California, Davis
- 2pm **Unsupervised Detection of Careless Responding with Auxiliary Covariates**
 » [Dr. Michael Ilagan](#) (Canada) - University of Alberta, Prof. Carl Falk (Canada) - McGill University
- 2:15pm **Latent Class Analysis via Gaussian Mixture IRT for Mixed Response Data**
 » [Prof. Xiangbin Meng](#) (China) - Northeast Normal University, Dr. Siyao Cheng (China) - Northeast Normal University
- 2:30pm **A Comparison of Mixture and Score-Based Partitioning Approaches to Account for Response Process Heterogeneity with Item Response Tree Models**
 » [Mr. Ömer Emre Can Alagöz](#) (Germany) - University of Mannheim, Prof. Thorsten Meiser (Germany) - University of Mannheim, Dr. Rudolf Debelak (Switzerland) - University of Zurich / EPFL
- 2:45pm **A Joint Modeling Approach for Faking Correction in Forced-Choice Questionnaires**
 » [Mr. Diego Graña](#) (Spain) - Universidad Autónoma de Madrid, Dr. Susanne Frick (Germany) - TU Dortmund University, Prof. Francisco J. Abad (Spain) - Universidad Autónoma de Madrid, Dr. Miguel A. Sorrel (Spain) - Universidad Autónoma de Madrid, Prof. Rodrigo Schames Kreitchmann (Spain) - Universidad Nacional de Educación a Distancia
- 1:45pm **Fairness and Equity**
Room 101, School of Business
 Chaired by: Dr. Ines M. Varas (Chile)
- 1:45pm **The Role of Selection Weights in Shaping Equity and Predictive Validity in University Admissions**
 » [Dr. Eduardo Alarcón-Bustamante](#) (Chile) - DEMRE - Universidad de Chile

- 2pm **Predictive Validity under Test Reform: Challenges of Comparing Curriculum- and Competency-Based Admission Tests**
 » [Ms. Victoria Florenzano](#) (Chile) - DEMRE - Universidad de Chile
- 2:15pm **Dependent Models for Test Equating: a Latent Approach**
 » [Dr. Ines M. Varas](#) (Chile) - Universidad Técnica Federico Santa María
- 2:30pm **How Unreliable Scores Distort Educational Equity Indicators**
 » [Dr. Jiahui Zhang](#) (China) - Beijing Normal University
- 2:45pm **Cross-Classified Modeling of Prompt Fairness in Writing Assessment**
 » [Ms. Sohyeon Lee](#) (United States) - University of Hawaii at Manoa
- 1:45pm **Symposium: From Measurement to Mechanism**
Room 102, School of Business
 Chaired by: Dr. Noah van Dongen (Netherlands)
- 1:45pm **A Case for Modern Theoretical Psychology**
 » [Dr. Noah van Dongen](#) (Netherlands) - Erasmus University Rotterdam, Dr. Vencislav Popov (Switzerland) - University of Zurich, Dr. Gijs Holleman (Netherlands) - Tilburg University
- 2pm **Categorizing Phenomena for Use in Formal Theory**
 » [Mr. Jason Nak](#) (Netherlands) - University of Amsterdam
- 2:15pm **Bayesian Variable Selection in Mixed Ordinal-Continuous Markov Random Fields**
 » [Dr. Maarten Marsman](#) (Netherlands) - University of Amsterdam
- 2:30pm **Behavioral Interfaces for Psychological Theories: An Application using Network Theory and AI**
 » [Prof. Denny Borsboom](#) (Netherlands) - University of Amsterdam
- 2:45pm **Nonlinear Dynamics to Simulate and Test Interventions**
 » [Mr. Titus Muertz](#) (Netherlands) - University of Amsterdam



Continued from Thursday, 23 July

- 1:45pm **Estimation and Computational Methods**
Room 103, School of Business
Chaired by: Dr. Joost Van Ginkel (Netherlands)
- 1:45pm **Are Extensive Simulation Studies Always Necessary? a Critical Overview**
» [Dr. Joost Van Ginkel](#) (Netherlands) - Leiden University, Dr. Ralph Rippe (Netherlands) - Leiden University
- 2pm **Assessing Measurement Invariance with Bifactor IRT Models**
» [Ms. Lu Zhang](#) (Norway) - University of Oslo, Prof. Björn Andersson (Norway) - University of Oslo
- 2:15pm **Addressing Excessive Zeros in Assessment using a Zero-Inflated Mixture IRT Framework**
» [Dr. Fathima Jaffari](#) (Saudi Arabia) - Education and Training Evaluation Commission, Dr. Georgios Sideridis (United States) - Harvard Medical School
- 2:30pm **Bias-Corrected Linking Coefficients and Their Asymptotic Standard Errors for Common-Examinee Designs**
» [Prof. Ikko Kawahashi](#) (Japan) - Meiji-Gakuin University, Prof. Hiroyuki Noguchi (Japan) - Nagoya University, Prof. Saori Kubo (Japan) - Tohoku University
- 2:45pm **The Incomparability of Standardized Estimates in Manifest- and Latent-Variable Modeling**
» [Prof. Zhonglin Wen](#) (China) - South China Normal University, Ms. Wang Yifan (China) - South China Normal University
- 1:45pm **Causal Inference**
S504, 5th Floor, Baekyang Hall
Chaired by: Dr. Jenn-Yun Tein (United States)

- 1:45pm **Causal Inference in Latent Mediation: A Robust G-Estimation Approach for Randomized Trials**
» [Ms. Sofia Morelli](#) (Germany) - Tübingen University, Mr. Roberto Faleh (Germany) - Tübingen University, Prof. Holger Brandt (Germany) - Tübingen University
- 2pm **Use of Regression Anatomy to Identify Structural Bias in DAGs**
» Dr. Jaehyun Shin (United States) - Virginia Polytechnic Institute and State University, [Prof. Yasuo Miyazaki](#) (United States) - Virginia Polytechnic Institute and State University
- 2:15pm **Predicting Mixture Mediation Pathways from Contextual Risk Using Machine Learning**
» [Dr. Jenn-Yun Tein](#) (United States) - Arizona State University, Dr. Cheuk Hei (Bosco) Cheng (United States) - Arizona State University, Ms. Savannah G Ostner (United States) - Arizona State University, Dr. Sierra Clifford (United States) - Arizona State University, Dr. Daniel S Shaw (United States) - University of Pittsburgh, Dr. Kathryn Lemery-Chalfant (United States) - Arizona State University
- 2:30pm **Advantages and Limitations of Transfer Learning for Individual Treatment Effects**
» [Ms. Seyda Aydin](#) (Germany) - University of Tübingen, Prof. Holger Brandt (Germany) - Tübingen University
- 2:45pm **Deep Neural Nuisance Models for G-Estimation in Mediation Analysis with Unmeasured Confounding**
» [Mr. Roberto Faleh](#) (Germany) - Tübingen University, Ms. Sofia Morelli (Germany) - Tübingen University, Prof. Holger Brandt (Germany) - Tübingen University
- 3pm **Refreshment Break**
- 3:15pm **Symposium: Causal Inference and Mediation**
Auditorium, Baekyang Hall
Chaired by: Prof. Jee-Seon Kim (United States)
- 3:15pm **A Causal Framework for Careless Responding**
» [Ms. Jiwoo Kim](#) (United States) - Cornell University, Dr. Felix Thoemmes (United States) - Cornell University



Continued from **Thursday, 23 July**

3:30pm **Variation in Causal Mediation Effect Estimates Across Estimation Strategies**

» [Prof. Hanna Kim](#) (United States) - University of California, Santa Cruz, Prof. Jee-Seon Kim (United States) - University of Wisconsin - Madison

3:45pm **Why Applied Causal Inference Needs Directed Acyclic Graphs**

» [Dr. Peter Steiner](#) (United States) - University of Maryland, College Park, Mr. Nathan J. Quimpo (United States) - University of Maryland, College Park

4pm **Change as Consequence, not Cause: A Critique of Latent Growth Modeling**

» [Prof. Yongnam Kim](#) (Korea, Republic of) - Seoul National University, Ms. Yunjoo Han (Korea, Republic of) - Seoul Bongcheon Elementary School

3:15pm **Longitudinal Latent Class Models**

B125, Ballroom, The Commons

Chaired by: [Dr. Ji Hoon Ryoo](#) (Korea, Republic of)

3:15pm **Predicting Distal Outcomes from Latent Classes in the Growth Mixture Models: Robustness over Various Coding of Time**

» [Ms. Yuqi Liu](#) (Netherlands) - Leiden University, Dr. Zsuzsa Bakk (Netherlands) - Leiden University, Prof. Mark de Rooij (Netherlands) - Leiden University, Dr. Ethan M. McCormick (United States) - university of delaware

3:30pm **Frequentist Forecasting of Regime-Switching Models Incorporating Within- and Between-Individual Differences**

» [Mr. Kento Okuyama](#) (Germany) - University of Tübingen, Dr. Tim Schaffland (Germany) - d-fine GmbH, Dr. Pascal Kilian (Germany) - Robert Bosch GmbH, Prof. Holger Brandt (Germany) - University of Tübingen, Prof. Augustin Kelava (Germany) - University of Tübingen

3:45pm **Dynamic Latent Transition Analysis Expanding Repeated Measures into Continuous Prediction**

» [Dr. Ji Hoon Ryoo](#) (Korea, Republic of) - Yonsei University, Ms. Dakyung Ryu (Korea, Republic of) - Kyungpook National University, Ms. Yeongjin Jo (Korea, Republic of) - Yonsei University, Prof. Younghae Do (Korea, Republic of) - Kyungpook National University

4pm **Quantifying Change in Latent Transition Analysis: Effect Size and Its Confidence Interval**

» [Dr. Zonggui Li](#) (United States) - University of Maryland School of Pharmacy, Dr. Ehri Ryu (United States) - Boston College

4:15pm **Robust Bayesian Growth Mixture Modeling for Small Latent Classes**

» [Mr. Chad Davis](#) (United States) - University of Virginia, Dr. Xin Tong (United States) - University of Virginia, Dr. Eunsook Kim (United States) - University of South Florida, Dr. Yan Wang (United States) - University of Massachusetts Lowell, Dr. John Ferron (United States) - University of South Florida, Prof. David Goretzko (Germany) - Department of Psychology, Goethe University, Frankfurt

3:15pm **Symposium: Latent Space Item Response Modeling**

B126, Ballroom, The Commons

Chaired by: [Prof. Minjeong Jeon](#) (United States)

3:15pm **A Latent Space Diffusion Item Response Theory Model to Explore Unexplained Person-Item Interactions Underlying Responses and Response Times**

» [Dr. Inhan Kang](#) (Korea, Republic of) - Yonsei University

3:30pm **A Latent Space Accumulator Model for Response Time: Applications to Cognitive Assessment Data**

» [Dr. Ick Hoon Jin](#) (Korea, Republic of) - Yonsei University, Ms. Hyunjoo Kim (United States) - University of Illinois Urbana-Champaign, Prof. Minjeong Jeon (United States) - University of California, Los Angeles

3:45pm **Hyperbolic Latent Space Item Response Models for Hierarchical Structures**

» [Mr. Gwanghee Kim](#) (Korea, Republic of) - Yonsei University, Dr. Ick Hoon Jin (Korea, Republic of) - Yonsei University, Prof. Minjeong Jeon (United States) - University of California, Los Angeles



Continued from Thursday, 23 July

- 4pm **Measuring Progress with an Interaction Map Approach for Longitudinal Assessment Data**
 » Prof. Minjeong Jeon (United States) - University of California, Los Angeles
- 4:15pm **Heterogeneity of Response Style Behaviors: Empirical Findings from LS-IRTtree Model Application**
 » Dr. Nana Kim (United States) - University of Minnesota - Twin Cities, Prof. Minjeong Jeon (United States) - University of California, Los Angeles
- 3:15pm **Psychometric and Behavioral Methods**
B145, The Commons
 Chaired by: Prof. Theodore Walls (United States)
- 3:15pm **Profiling Collaborative Learning Behavior via Network-Based Multivariate Dynamic Time Warping**
 » Prof. Na Ra Nam (Korea, Republic of) - Konkuk University, Mr. Euigyum Kim (Korea, Republic of) - Sogang University, Prof. Hyo Jeong Shin (Korea, Republic of) - Sogang University
- 3:30pm **Context-Aware Modeling of Test-Taking Clickstream Data Using Transformer Encoder**
 » Ms. Ruiting Shen (United States) - New York University, Dr. Klint Kanopka (United States) - New York University
- 3:45pm **Inference for Biomechanical and Behavioral Mobile Sensing Data**
 » Prof. Theodore Walls (United States) - University of Rhode Island, Mr. Nathan DeSalvo (United States) - University of Rhode Island, Prof. Kathleen Melanson (United States) - University of Rhode Island, Mr. Adeleke Akinkulore (United States) - University of Rhode Island, Prof. Edison Thomaz (United States) - University of Texas at Austin, Mr. Cody J Arvonen (United States) - University of Texas at Austin
- 4pm **Flexible Exploratory Item Factor Analysis using Variational Autoencoders**
 » Mr. Youngjin Han (United States) - University of Maryland, Dr. Ji Seung Yang (United States) - University of Maryland

- 4:15pm **Measuring Cognitive Constructs in Addictive Behavior: An Integrated Framework of Reinforcement Learning and Sequential Sampling**
 » Ms. Eunwoo Kim (Korea, Republic of) - Yonsei University, Dr. Inhan Kang (Korea, Republic of) - Yonsei University
- 3:15pm **Multivariate Analysis**
B146, The Commons
 Chaired by: Dr. Sunmee Kim (Canada)
- 3:15pm **Detecting Covariate-Dependent Heterogeneity in Multivariate Extended Redundancy Analysis via Model-Based Recursive Partitioning**
 » Ms. Sam Sichkaruk (Canada) - University of Manitoba, Dr. Lisa Lix (Canada) - University of Manitoba, Dr. Richard Kruk (Canada) - University of Manitoba, Dr. Sunmee Kim (Canada) - University of Manitoba
- 3:30pm **Model-Based Least-Squares Imputation for Multivariate Extended Redundancy Analysis under Complex Missingness**
 » Mr. Bryce Phillips (Canada) - University of Manitoba, Dr. Depeng Jiang (Canada) - University of Manitoba, Dr. Richard Kruk (Canada) - University of Manitoba, Dr. Sunmee Kim (Canada) - University of Manitoba
- 3:45pm **Kernel Extended Redundancy Analysis: Penalized RKHS-Based Estimation for Flexible Component Construction**
 » Dr. Sunmee Kim (Canada) - University of Manitoba, Dr. Hye Won Suk (Korea, Republic of) - Seoul National University, Dr. Heungsun Hwang (Canada) - McGill University
- 4pm **A Systematic Review of Multivariate Anomaly Detection in Psychological Research**
 » Ms. Loreen Sabel (Germany) - TU Dortmund University, Prof. Philipp Doebler (Germany) - TU Dortmund University
- 4:15pm **Replicability of BWAS Studies: Principal Covariate Versus Ridge Regression**
 » Ms. Lisa Verbeij (Netherlands) - Leiden University, Prof. Mark de Rooij (Netherlands) - Leiden University, Dr. Wouter Weeda (Netherlands) - Leiden University



Continued from **Thursday, 23 July**

- 3:15pm **Bayesian**
B147, The Commons
Chaired by: Prof. David Kaplan (United States)
- 3:15pm **Bayes Factors for Structural Equation Models with Bridge Sampling and Blavaan**
» [Mr. Julius M. Pfadt](#) (Netherlands) - University of Amsterdam, Prof. Edgar C. Merkle (United States) - University of Missouri, Mr. Eric-Jan Wagenmakers (Netherlands) - University of Amsterdam
- 3:30pm **Bayesian SEM Model Evaluation and Comparison with Blavaan**
» [Prof. Mauricio Garnier-Villarreal](#) (Netherlands) - Vrije Universiteit Amsterdam, Prof. Terrence Jorgensen (Netherlands) - University of Amsterdam, Dr. Sara van Erp (Netherlands) - Utrecht University, Prof. Edgar C. Merkle (United States) - University of Missouri
- 3:45pm **Accelerating Bayesian SEM with GPU Computing: An Efficiency Study**
» [Dr. Jorge Sinval](#) (Singapore) - Nanyang Technological University, Prof. Edgar C. Merkle (United States) - University of Missouri
- 4pm **Empirical Underidentification in Latent Variable Models**
» [Dr. Eric Loken](#) (United States) - University of Connecticut
- 4:15pm **Addressing Model Uncertainty in Experimental Designs via Bayesian Stacking**
» [Prof. David Kaplan](#) (United States) - University of Wisconsin - Madison, Mr. Red Paulin (United States) - University of Wisconsin - Madison
- 3:15pm **Symposium: Dynamical Systems Modeling**
Room 101, School of Business
Chaired by: Dr. Meng Chen (United States)

- 3:15pm **Detecting Qualitatively Distinct Continuous-Time Dynamics Using Mixture Differential Equation Models**
» [Dr. Meng Chen](#) (United States) - University of Southern California, Dr. Michael Hunter (United States) - The Pennsylvania State University
- 3:30pm **Nonparametric Inference of Stability Landscapes from Intensive Longitudinal Data**
» [Dr. Jingmeng Cui](#) (Belgium) - KU Leuven, Prof. Eva Ceulemans (Belgium) - KU Leuven, Prof. Francis Tuerlinckx (Belgium) - KU Leuven
- 3:45pm **Dynamic Structural Equation Models with Composites**
» [Ms. Sijia Li](#) (Canada) - University of British Columbia, Dr. Sy-Miin Chow (United States) - The Pennsylvania State University, Dr. Victoria Savalei (Canada) - University of British Columbia
- 4pm **Model Selection Measures for Bayesian Models with Abrupt and Gradual Changes**
» [Dr. Yanling Li](#) (United States) - The Pennsylvania State University, [Ms. Xiaoyue Xiong](#) (United States) - The Pennsylvania State University, Dr. Zita Oravecz (United States) - The Pennsylvania State University, Dr. Sy-Miin Chow (United States) - The Pennsylvania State University
- 4:15pm **Using Vector Generalized Additive Models to Estimate Time-Varying Vector Autoregressive Models**
» [Dr. Simran Johal](#) (United States) - University of Oregon
- 3:15pm **Symposium: Applications of Generative AI**
Room 102, School of Business
Chaired by: Dr. Luning Sun (United Kingdom)
- 3:15pm **Developing Image-Based Personality Tests using Multimodal Large Language Models**
» [Dr. Luning Sun](#) (United Kingdom) - University of Cambridge, Prof. Fang Luo (China) - Beijing Normal University, Prof. Zonglei Zhen (China) - Beijing Normal University, Prof. David Stillwell (United Kingdom) - University of Cambridge



Continued from **Thursday, 23 July**

3:30pm **LLM-Based Social Desirability Estimation for Forced-Choice Item Assembly**
 » [Dr. Chia-Wen Chen](#) (United Kingdom) - University of Cambridge, Dr. Joe Watson (United Kingdom) - University of Cambridge, Dr. Luning Sun (United Kingdom) - University of Cambridge, Prof. Fang Luo (China) - Beijing Normal University

3:45pm **Evaluating Large Language Models' Big-C Creativity in Psychological Assessment Development**
 » [Dr. Yuzhuo Yuan](#) (China) - Beijing Normal University, Dr. Luning Sun (United Kingdom) - University of Cambridge, Dr. Yixuan Jiang (China) - Zhejiang University, Ms. Xin Meng (China) - Beijing Normal University, Ms. Jing Li (China) - Beijing Normal University, Prof. David Stillwell (United Kingdom) - University of Cambridge, Prof. Fang Luo (China) - Beijing Normal University

4pm **Augmenting Psychological Rating Scales with LLM-Scored Text**
 » [Dr. Joe Watson](#) (United Kingdom) - University of Cambridge, Mr. Ivan O'Connor (United Kingdom) - University of Birmingham, Dr. Chia-Wen Chen (United Kingdom) - University of Cambridge, Dr. Luning Sun (United Kingdom) - University of Cambridge, Prof. Fang Luo (China) - Beijing Normal University, Prof. David Stillwell (United Kingdom) - University of Cambridge

4:15pm **Large Language Model-Based Silicon Sampling for Psychometric Analysis**
 » [Mr. Zhuoran Tu](#) (China) - Beijing Normal University, Dr. Luning Sun (United Kingdom) - University of Cambridge, Prof. David Stillwell (United Kingdom) - University of Cambridge, Prof. José Hernández-Orallo (Spain) - University of Cambridge, Prof. Fang Luo (China) - Beijing Normal University

3:15pm **Symposium: Machine Learning and Causal Inference**
 Room 103, School of Business
 Chaired by: Dr. Melanie Viola Partsch (Netherlands)

3:15pm **Stability Assessment in Machine Learning: Evaluating Resampling for Decision Trees**
 » [Mr. Constantin Wiegand](#) (Switzerland) - University of Basel, Prof. Florian Scharf (Germany) - University of Kassel, Prof. Mirka Henninger (Switzerland) - University of Basel

3:30pm **Insights from Interpretable Machine Learning into the Interplay of Model Misspecifications, Fit Indices, and Nuisance Parameters**
 » [Dr. Melanie Viola Partsch](#) (Netherlands) - Utrecht University, Prof. Mirka Henninger (Switzerland) - University of Basel, Prof. Carmen Ximénez (Spain) - Universidad Autónoma de Madrid, Prof. David Goretzko (Germany) - Goethe University, Frankfurt

3:45pm **Identifying Causal Effects with Psychological Interventions: Psychometric Prerequisites for Latent Instrumental Variable Designs**
 » [Mr. Lukas Junker](#) (Germany) - Ludwig-Maximilian-University München, Dr. Florian Pargent (Germany) - Ludwig-Maximilian-University München

4pm **Mapping Dynamic Resilience Through Multimodal Networks: Integrating EMA, Sensing, and Perceived Causal Networks**
 » [Ms. Mareike Ebert](#) (Germany) - Goethe University Frankfurt, Prof. David Goretzko (Germany) - Goethe University Frankfurt

4:15pm **Better Targets, Better Models? Psychometrics in Empirical Machine Learning Predictions**
 » [Dr. Larissa Sust](#) (Germany) - LMU Munich, Prof. David Goretzko (Germany) - Goethe University Frankfurt, Dr. Philipp Sterner (Germany) - Technical University Munich, Dr. Jan Digutsch (Germany) - Ruhr University Bochum

3:15pm **Symposium: Advances in SEM II**
 S504, 5th Floor, Baekyang Hall
 Chaired by: Dr. Florian Schuberth (Netherlands)



Continued from Thursday, 23 July

3:15pm **Second-Order Structural Equation Modeling with both Factors and Components**

» Mr. In-Hyun Baek (Canada) - McGill University, Prof. Gyeongcheol Cho (United States) - The Ohio State University, Dr. Florian Schuberth (Netherlands) - University of Twente, Dr. Heungsun Hwang (Canada) - McGill University

3:30pm **AGAS-PLS: A Genetic Algorithm for Automated Structural Model Specification in Composite-Based SEM**

» Prof. Laura Trinchera (France) - NEOMA Business School, Dr. Gloria Pietropoli (Italy) - University of Trieste, Prof. Mauro Castelli (Portugal) - NOVA Information Management School (NOVA IMS), Universidade NOVA de Lisboa, Dr. Florian Schuberth (Netherlands) - University of Twente

3:45pm **Refined Matrix Decomposition SEM: Integrating Factor and Component Structures without Penalty Parameters**

» Dr. Naoto Yamashita (Japan) - Kansai University

4pm **Structural Equation Modeling with Factors and Composites: SVD-SEM or RML-SEM?**

» Prof. Arthur Tenenhaus (France) - Laboratoire des Signaux et Systèmes, Mr. Alain Luong (France) - Laboratoire des Signaux et Systèmes, Prof. Michel Tenenhaus (France) - HEC Paris

4:15pm **Relaxed SEM-Based Out-of-Sample Predictions**

» Ms. Aditi M Bhangale (Netherlands) - Leiden University, Dr. Julian D Karch (Netherlands) - Leiden University, Prof. Mark de Rooij (Netherlands) - Leiden University

4:30pm **Walking Break**

4:45pm **Presidential Panel Discussion**

Auditorium, Baekyang Hall

Chaired by: Prof. Jae-Chun Ban (Korea, Republic of) and Prof. Kyung-Seok Min (Korea, Republic of)

4:45pm **Past, Present, and Future of Measurement and Evaluation in Korean Education**

» Prof. Jae-Chun Ban (Korea, Republic of) - Chungnam National University, Prof. Kyung-Seok Min (Korea, Republic of) - Sejong University, Korea, Prof. Jong Seung Lee (Korea, Republic of) - Chungnam National University, Prof. Do-Soon Park (Korea, Republic of) - Korea University, Prof. Taeje Seong (Korea, Republic of) - Ewha Womans University, Prof. Eunlim Chi (Korea, Republic of) - KyungHee University, Prof. Guemin Lee (Korea, Republic of) - Yonsei University

4:45pm **Symposium: Celebrating Twenty-five Years of the Iz^* Statistic**

B125, Ballroom, The Commons

Chaired by: Dr. Sandip Sinharay (United States)

4:45pm **Asymptotically Correct Standardization of Person-Fit Statistics: Some Recent Developments**

» Dr. Sandip Sinharay (United States) - ETS

5pm **About the (Very Old) Story of Iz^***

» Dr. Sébastien Béland (Canada) - Université de Montréal

5:15pm **Conformal Inference for Aberrant Response Detection**

» Ms. Youmin Hong (United States) - University of Maryland, Dr. Ji Seung Yang (United States) - University of Maryland, Dr. Yang Liu (United States) - University of Maryland

5:30pm **Outlier Detection, Person Fit, and Robust Estimation of IRT Models**

» Prof. Alison Cheng (United States) - University of Notre Dame

5:45pm **Discussion: Future of Person-Fit Analysis in Assessing Test Performance**

» Prof. Klaas Sijsma (Netherlands) - Tilburg University

4:45pm **Estimation and Computational Methods**

B126, Ballroom, The Commons

Chaired by: Prof. Francis Tuerlinckx (Belgium)



Continued from **Thursday, 23 July**

4:45pm **Scoring Reliability in the Era of Generative AI**
 » Dr. Matthias von Davier (United States) - TIMSS & PIRLS International Study Center at Boston College, Dr. Ji Yoon Jung (United States) - TIMSS & PIRLS International Study Center at Boston College, Dr. Ummugul Bezirhan (United States) - TIMSS & PIRLS International Study Center at Boston College

5pm **Statistical Curvature and Algorithmic Convergence in Factor Models**
 » Prof. Francis Tuerlinckx (Belgium) - KU Leuven, Mr. Zihao Cao (Belgium) - KU Leuven

5:15pm **Robust Pairwise Estimation of Factor Analyses of Categorical Data**
 » Dr. Max Welz (Switzerland) - University of Zurich, Prof. Yunxiao Chen (United Kingdom) - London School of Economics, Prof. Irini Moustaki (United Kingdom) - London School of Economics

5:30pm **Estimating Parameters of Lotka-Volterra (Predator-Prey) Models**
 » Prof. Steven Boker (United States) - University of Virginia

5:45pm **Latent Trait Estimation with Generalized Linear Latent Variable Models**
 » Prof. Björn Andersson (Norway) - Centre for Educational Measurement, University of Oslo

4:45pm **Factor Analysis and Measurement Invariance**
B145, The Commons
 Chaired by: Prof. Njål Foldnes (Norway)

4:45pm **Evaluating Multigroup Structural Equation Modeling with Exploratory-Based Confirmatory Measurement Models**
 » Ms. Jennifer Dang Guay (Belgium) - KU Leuven, Prof. Yves Rosseel (Belgium) - Ghent University, Dr. Kim De Roover (Belgium) - KU Leuven

5pm **Measurement Invariance with Incomplete Ordinal Data: Multiple Imputation-Based Tests**
 » Dr. Suppanut Sriutaisuk (Thailand) - Chulalongkorn University, Prof. Han Joe Kim (Korea, Republic of) - Yonsei University, Dr. Sunthud Pornprasertmanit (Thailand) - Chulalongkorn University

5:15pm **New Test Procedures for CFA Model Fit and Nested Model Comparisons**
 » Prof. Njål Foldnes (Norway) - University of Stavanger, Prof. Steffen Grønneberg (Norway) - BI Norwegian Business School, Prof. Jonas Moss (Norway) - BI Norwegian Business School

5:30pm **Testing Measurement Invariance Across Age and Education Groups for the NIH Toolbox Cognition Battery (NIHTB-CB)**
 » Dr. Jiwon Kim (United States) - Northwestern University, Dr. Y. Catherine Han (United States) - Northwestern University, Ms. Augusta Zukauskas (United States) - Northwestern University, Dr. Aaron J. Kaat (United States) - Northwestern University, Dr. Emily Ho (United States) - Northwestern University, Dr. Richard C. Gershon (United States) - Northwestern University, Dr. Elizabeth M. Dworak (United States) - Northwestern University

5:45pm **Partial Comparability of Latent Traits Across Studies**
 » Mr. Wesam Asaad (Switzerland) - Independent Researcher

4:45pm **AI and LLMs**
B146, The Commons
 Chaired by: Prof. Meounggun Jo (Korea, Republic of)

4:45pm **Multi-Agent System Framework for Diagnostic Assessment with Automatic Item Generation**
 » Dr. Tae Yeon Kwon (United States) - HMM, Prof. Jaehwa Choi (United States) - George Washington University

5pm **Graph Neural Network (GNN) Based Automated Scoring and Feedback**
 » Ms. Seoyoon Kim (Korea, Republic of) - Yonsei University, Prof. Guemin Lee (Korea, Republic of) - Yonsei University



Continued from **Thursday, 23 July**

5:15pm **Applications of Distillation and Optimization Techniques to SLM in AES**

» [Mr. Seongil Kim](#) (Korea, Republic of) - Yonsei University, Prof. Guemin Lee (Korea, Republic of) - Yonsei University

5:30pm **Predicting Item Difficulty for High-Stakes Tests with Open-Weight LLMs**

» [Prof. Meounggun Jo](#) (Korea, Republic of) - Hoseo University

5:45pm **QUALITAS: Adapting Qualitative LLM Coding to Within-Scheme Variability**

» [Dr. Wen Qu](#) (China) - Fudan University, Dr. Shufeng Ma (China) - East China Normal University

4:45pm **Causal Inference**

B147, The Commons

Chaired by: Dr. Ben Kelcey (United States)

4:45pm **Identifying Causes of Effect-Heterogeneity Between Quasi-Experimental Replication Studies**

» [Prof. Steffi Pohl](#) (Germany) - Freie Universität Berlin, Dr. Mathias Twardawski (Germany) - Ludwig-Maximilian-University München, Prof. Marie-Ann Sengewald (Germany) - Friedrich-Alexander-University Erlangen-Nürnberg

5pm **Incorporating Information About Mechanisms/Causal Powers into Causal Inference**

» [Dr. Keith Markus](#) (United States) - John Jay College, CUNY

5:15pm **An Exploratory Bayesian Mediation Model to Select Mediation Effects**

» [Dr. Dingjing Shi](#) (United States) - Georgia Institute of Technology, Dr. Dexin Shi (United States) - University of South Carolina, Dr. Amanda Fairchild (United States) - University of South Carolina

5:30pm **Targeted after Generative Learning for Causal Inference with Latent Variables**

» [Dr. Ben Kelcey](#) (United States) - University of Cincinnati, Dr. Amota Ataneka (United States) - University of Cincinnati, Dr. Jean-Baptiste Habarurema (United States) - University of Cincinnati

5:45pm **Many Mediators: High-Dimensional Heterogeneous Mediation Analysis with Power Enhancements**

» Dr. Xiufan Yu (United States) - University of Notre Dame, [Dr. Ken Kelley](#) (United States) - University of Notre Dame

4:45pm **AI Applications**

S504, 5th Floor, Baekyang Hall

Chaired by: Dr. Brian Gin (United States)

4:45pm **Operationalizing GenAI Scoring in Multilingual Assessment**

» [Dr. Ji Yoon Jung](#) (United States) - TIMSS & PIRLS International Study Center at Boston College, Dr. Ummugul Bezirhan (United States) - TIMSS & PIRLS International Study Center at Boston College, Dr. Matthias von Davier (United States) - TIMSS & PIRLS International Study Center at Boston College

5pm **Refactoring Our Spherical Cows: Reevaluating Our Most Important Simplifications**

» [Mr. Michael Hardy](#) (United States) - Stanford University

5:15pm **Judging Judgment: Large Language Models Write Situational Judgment Items**

» [Ms. Ambar Kleinbort](#) (Argentina) - Harver, Mr. Eric Fox (United States) - Harver, Dr. Anne Thissen-Roe (United States) - Harver

5:30pm **Automated Q-Matrix Construction for Cognitive Diagnostic Models**

» [Mr. Samuel Huang](#) (United States) - University of Notre Dame, Dr. Cheng Liu (United States) - University of Notre Dame



Continued from **Thursday, 23 July**

5:45pm

Crash Test Dummies: Validating Virtual Patients with Virtual Learners

» [Dr. Brian Gin](#) (United States) - University of Illinois, Chicago, [Dr. Flávia Silva e Oliveira](#) (Brazil) - Universidade Federal de Catalão (UFCAT), [Dr. Ahreum Lim](#) (United States) - University of Illinois, Chicago, [Dr. Kuan Xing](#) (United States) - The University of Iowa, [Dr. Lukas Shum-Tim](#) (Canada) - McMaster University, [Dr. Matthew Kaminsky](#) (United States) - The University of Chicago, [Dr. Xiaomei Song](#) (United States) - Case Western Reserve University, [Mr. Bob Kiser](#) (United States) - University of Illinois, Chicago, [Dr. Ananya Gangopadhyaya](#) (United States) - University of Illinois, Chicago, [Ms. Laura McKenzie](#) (United States) - University of Illinois, Chicago, [Dr. Ara Tekian](#) (United States) - University of Illinois, Chicago, [Dr. Lauren Maggio](#) (United States) - University of Illinois, Chicago, [Dr. Yoon Soo Park](#) (United States) - University of Illinois, Chicago

Friday, 24 July

9am

Invited Presidential Session: Graduate Student Research Competition

Auditorium, Baekyang Hall

Chaired by: [Prof. Silvia Cagnone](#) (Italy)

9am

Symposium: Generalized Structured Component Analysis

B125, Ballroom, The Commons

Chaired by: [Prof. Gyeongcheol Cho](#) (United States)

9am

Evaluation of Classical and Machine Learning-Based Missing Data Methods in Generalized Structured Component Analysis

» [Ms. Luqi He](#) (Canada) - McGill University, [Prof. Gyeongcheol Cho](#) (United States) - The Ohio State University, [Dr. Heungsun Hwang](#) (Canada) - McGill University

9:15am

Completing Partial Least Squares Path Modeling: Generalized Structured Component Analysis

» [Prof. Gyeongcheol Cho](#) (United States) - The Ohio State University

9:30am

Evaluating the Predictive Performance of Generalized Structured Component Analysis and Factor-Based Structural Equation Modeling Approaches

» [Ms. Zhiyuan Shen](#) (Canada) - McGill University, [Dr. Heungsun Hwang](#) (Canada) - McGill University

9:45am

Multilevel GSCA with Group-Level Variables: An Illustration Using GSCA Pro

» [Dr. Sunmee Kim](#) (Canada) - University of Manitoba, [Prof. Gyeongcheol Cho](#) (United States) - The Ohio State University, [Dr. Heungsun Hwang](#) (Canada) - McGill University, [Dr. Gabriel Cepeda Carrión](#) (Spain) - Universidad de Sevilla, [Dr. Silvia Martelo-Landroguez](#) (Spain) - Universidad de Sevilla, [Dr. José Roldán](#) (Spain) - Universidad de Sevilla

10am

Extending Generalized Structured Component Analysis with Kernel Functions for Modeling Nonlinear Data

» [Dr. Hye Won Suk](#) (Korea, Republic of) - Seoul National University, [Prof. Gyeongcheol Cho](#) (United States) - The Ohio State University, [Dr. Heungsun Hwang](#) (Canada) - McGill University

9am

AI and IRT

B126, Ballroom, The Commons

Chaired by: [Prof. Seock-Ho Kim](#) (United States)

9am

Item Response Theory Models in Psychometric Textbooks

» [Prof. Seock-Ho Kim](#) (United States) - University of Georgia, [Ms. Ashley Heady](#) (United States) - University of Georgia, [Ms. Tamlyn Lahoud](#) (United States) - University of Georgia, [Ms. Jing Li](#) (United States) - University of Georgia, [Mr. Jingyang Li](#) (United States) - University of Georgia

9:15am

Using Artificial Intelligence and Machine Learning Tools to Preprocess Data in Extreme Conditions to Improve Model Data Fit in Educational Assessment

» [Dr. Meina Bian](#) (United States) - University of Georgia, [Dr. Allan Cohen](#) (United States) - University of Georgia



Continued from Friday, 24 July

9:30am **Modeling Human-LLM Agreement in Spelling-Pronunciation Transparency**

» [Ms. Hyemin Park](#) (United States) - University of California, Berkeley, [Ms. Qing Cai](#) (United States) - University of California, Berkeley

9:45am **Federated Item Response Models: A Gradient-Driven Privacy-Preserving Framework for Distributed Psychometric Estimation**

» [Mr. Nanyu Luo](#) (Canada) - University of Toronto, [Dr. Feng Ji](#) (Canada) - University of Toronto

10am **Scaling Intelligence: Applying Latent Trait Models to AI Evaluation**

» [Mr. Euigyum Kim](#) (Korea, Republic of) - Sogang University, [Prof. Hyo Jeong Shin](#) (Korea, Republic of) - Sogang University, [Mr. Seonghoon Yang](#) (Korea, Republic of) - Upstage AI

9am **Multilevel**

B145, The Commons

Chaired by: [Dr. Clifford Hauenstein](#) (United States)

9am **A Mixed-Effects Location-Scale Model for Intervention Data**

» [Dr. Yue Liu](#) (China) - Sichuan Normal University, [Ms. Yueling He](#) (China) - Sichuan Normal University

9:15am **Random-Effects Trifactor Modeling for Partially Nested Multi-Informant Assessment Data**

» [Dr. Eunsook Kim](#) (United States) - University of South Florida, [Dr. Xin Qiao](#) (United States) - University of South Florida, [Ms. Emma Evudottir](#) (United States) - University of South Florida, [Mr. Alexander Goyette](#) (United States) - University of South Florida, [Dr. Nathaniel von der Embse](#) (United States) - University of South Florida

9:30am **Evaluating Bayesian Variable Selection Approaches for Nonlinear Random Effects Models**

» [Ms. Yue Zhao](#) (United States) - University of Minnesota - Twin Cities, [Prof. Nidhi Kohli](#) (United States) - University of Minnesota - Twin Cities, [Prof. Eric Lock](#) (United States) - University of Minnesota - Twin Cities

9:45am **Exploratory Bayesian Smoothing of Parameter Dynamics in Drift Diffusion Models**

» [Dr. Clifford Hauenstein](#) (United States) - The Johns Hopkins School of Medicine, [Dr. Eunbee Kim](#) (United States) - Georgia Institute of Technology

10am **Mixed-Resolution Spatial Latent Variable Models for Mapping Social Unrest**

» [Ms. Jasmine Burgess](#) (United Kingdom) - Lancaster University, [Dr. Gabriel Wallin](#) (United Kingdom) - Lancaster University, [Prof. Rachel McCrea](#) (United Kingdom) - Lancaster University, [Dr. Matthew Thomas](#) (United Kingdom) - British Red Cross

9am **Longitudinal Methods**

B146, The Commons

Chaired by: [Dr. Ethan M. McCormick](#) (United States)

9am **Longitudinally-Informed Power Analysis: Adaptive Recalibration of Longitudinal Designs**

» [Dr. Yi Feng](#) (United States) - University of California, Los Angeles, [Prof. Gregory R. Hancock](#) (United States) - University of Maryland

9:15am **Group-Lasso for Three-Mode GMANOVA Model with Unknown Item Structure**

» [Dr. Rei Monden](#) (Japan) - Hiroshima University, [Dr. Mineaki Ohishi](#) (Japan) - Tohoku University, [Dr. Ryoya Oda](#) (Japan) - Hiroshima University, [Prof. Hirokazu Yanagihara](#) (Japan) - Osaka Metropolitan University

9:30am **A 12-Wave Longitudinal Study on the Co-Evolution of Social and Psychometric Networks using Panel GVAR Models**

» [Mr. Seung Soo Kim](#) (Korea, Republic of) - Gyeongin National University of Education, [Prof. Chong-min Kim](#) (Korea, Republic of) - Gyeongin National University of Education

9:45am **Statistical Modeling for Timing Just-in-Time Adaptive Interventions**

» [Dr. Marie Turcicova](#) (Czechia) - Institute of Computer Science, Czech Academy of Sciences, [Prof. Patricia Martinková](#) (Czechia) - Institute of Computer Science, Czech Academy of Sciences



Continued from Friday, 24 July

10am **Moderation of Compound Parameters: New Opportunities for Testing Group- and Individual-Level Heterogeneity**
 » [Dr. Ethan M. McCormick](#) (United States) - University of Delaware, Prof. Gregory R. Hancock (United States) - University of Maryland

9am **Dynamical Systems Modeling**
B147, The Commons
 Chaired by: Dr. Jordan Revol (Belgium)

9am **When Cycles Coexist with Mean Trends in DSEM: Diagnostics, Joint Modeling, and Practical Guidelines**
 » [Ms. Yeonglin Jo](#) (Korea, Republic of) - Yonsei University, Dr. Ji Hoon Ryoo (Korea, Republic of) - Yonsei University

9:15am **Strategic Sampling for VAR Estimation Performance: The Episode-Contingent Design**
 » [Dr. Jordan Revol](#) (Belgium) - KU Leuven, Prof. Ginette Lafit (Belgium) - KU Leuven, Prof. Eva Ceulemans (Belgium) - KU Leuven, Dr. Sigert Ariens (Belgium) - KU Leuven

9:30am **How to Bridge the Night Gap in ESM Data with Continuous-Time Modeling**
 » [Dr. Pablo F. Cáncer](#) (Spain) - Universidad Pontificia Comillas, Dr. Sophie Berkhout (Netherlands) - Utrecht University, Prof. Charles Driver (Switzerland) - University of Zurich, Prof. Ellen Hamaker (Netherlands) - Utrecht University, Prof. Eduardo Estrada (Spain) - Universidad Autónoma de Madrid

9:45am **Mapping Latent Error Transitions via HMM in Neuropsychological Assessment**
 » [Ms. Isadora Leticia Silvestre Martins](#) (Brazil) - Mackenzie Presbyterian University, Mr. Matheus de Melo Rodrigues (Brazil) - Mackenzie Presbyterian University, Mr. Victor Engelmann Ribeiro Formigoni (Brazil) - Mackenzie Presbyterian University, Dr. Alexandre Luiz de Oliveira Serpa (Brazil) - Mackenzie Presbyterian University

10am **A Factored Regression Framework for Dynamic Structural Equation Modeling**
 » Dr. Brian Keller (United States) - University of Missouri, [Dr. Suyoung Kim](#) (Korea, Republic of) - Gachon University

9am **Symposium: Robust Bayesian Analysis**
Room 101, School of Business
 Chaired by: Ms. Vipasha Goyal (Netherlands)

9am **Bayesian Estimation of Ordinal Cross-Lagged Panel Model**
 » [Ms. Vipasha Goyal](#) (Netherlands) - University of Amsterdam

9:15am **bvarnet: Bayesian Estimation of Multilevel Vector Autoregressive Networks using STAN**
 » [Mr. Florian Metwaly](#) (Netherlands) - University of Amsterdam

9:30am **LLM-Based Prior Elicitation for Bayesian Graphical Modeling**
 » [Mr. Nikola Sekulovski](#) (Netherlands) - University of Amsterdam

9:45am **Model Space Priors and Dual Multiplicity in High-Dimensional Graphical Models**
 » [Ms. Emily Schutte](#) (Netherlands) - University of Amsterdam, Dr. Maarten Marsman (Netherlands) - University of Amsterdam, Dr. Giuseppe Arena (Netherlands) - University of Amsterdam

10am **Effective Sample Size Determination and Sample Size Planning for Bayesian Graphical Models with Informative Priors**
 » [Dr. Giuseppe Arena](#) (Netherlands) - University of Amsterdam, Dr. Lourens Waldorp (Netherlands) - University of Amsterdam, Dr. Maarten Marsman (Netherlands) - University of Amsterdam

9am **Symposium: Machine Learning Innovations**
Room 102, School of Business
 Chaired by: Dr. Igor Himelfarb (United States)



Continued from Friday, 24 July

9am **Predicting Test Outcomes from Item Responses Using Supervised Machine Learning**

» [Dr. Igor Himelfarb](#) (United States) - National Board of Chiropractic Examiners, Mrs. Shohreh Karbaschi (United States) - University of Northern Colorado, Dr. Bowen Wang (United States) - National Board of Chiropractic Examiners, Dr. Nai-En Tang (United States) - National Board of Chiropractic Examiners

9:15am **Item Classification by Difficulty Using Functional Principal Component Clustering and Neural Networks**

» [Dr. Bowen Wang](#) (United States) - National Board of Chiropractic Examiners, Mr. James Zoucha (United States) - University of Northern Colorado, Dr. Igor Himelfarb (United States) - National Board of Chiropractic Examiners, Dr. Nai-En Tang (United States) - National Board of Chiropractic Examiners

9:30am **Using Deep Reinforcement Learning to Decide Test Length**

» [Mr. James Zoucha](#) (United States) - University of Northern Colorado, Dr. Igor Himelfarb (United States) - National Board of Chiropractic Examiners, Dr. Nai-En Tang (United States) - National Board of Chiropractic Examiners

9:45am **Predicting Item Responses Using Mouse Trajectory Paradata and Machine Learning**

» [Dr. Kyosuke Bunji](#) (Japan) - Kobe University

9am **Missing Data**

Room 103, School of Business

Chaired by: Dr. Tracy Sweet (United States)

9am **Selection and Inference for Moderation Analysis with Missing Data**

» [Mr. Tianrun Zhu](#) (United States) - University of California, Merced, Prof. Fan Jia (United States) - University of California, Merced

9:15am **Missing Data in Social Networks**

» [Dr. Tracy Sweet](#) (United States) - University of Maryland

9:30am **Integrating IRT and Deep-Learning Approaches for Two-Step Imputation in Large-Scale Assessments**

» [Dr. Usama Ali](#) (United States) - ETS, Dr. Peter van Rijn (Netherlands) - Cito

9:45am **Nonnormality, Missing Data, and Small Samples: Challenges and Opportunities for Determining the Number of Factors using Robust SEM Fit Indices**

» [Mr. Austin Wyman](#) (United States) - University of Notre Dame, Dr. Johnny Zhang (United States) - University of Notre Dame

10am **Modeling Nonresponse in Matching Item Response Theory**

» [Ms. Rinhi Higashiguchi](#) (Japan) - The University of Tokyo, Dr. Kentaro Fukushima (Japan) - The University of Osaka, Dr. Kensuke Okada (Japan) - The University of Tokyo

9am **Factor Analysis**

S504, 5th Floor, Baekyang Hall

Chaired by: Prof. Steffen Grønneberg (Norway)

9am **An Extension of Minimum Rank Factor Analysis for Dealing with Correlated Residuals**

» [Dr. Naomichi Makino](#) (Japan) - National Center for University Entrance Examinations

9:15am **Factor Indeterminacy in Simulation and Linear Structural Equation Models**

» [Prof. Steffen Grønneberg](#) (Norway) - BI Norwegian Business School, Prof. Njål Foldnes (Norway) - University of Stavanger

9:30am **Pairwise Target Rotation for Factor Models**

» [Mr. Justin Philip Tuazon](#) (Philippines) - University of the Philippines - Diliman, Ms. Gia Mizrane Abubo (Philippines) - University of the Philippines - Diliman, Mr. Joemari Olea (Philippines) - University of the Philippines - Diliman



Continued from Friday, 24 July

9:45am **Evaluation of the Differences in Performance on Paper-Based and Computer-Based Presentation Forms of the Science Subject Teacher Test of the Kingdom of Saudi Arabia**

» Dr. Mohammed Alsadaawi (Saudi Arabia) - Education & Training Evaluation Commission, Dr. Fathima Jaffari (Saudi Arabia) - Education and Training Evaluation Commission, Prof. Khaleel Al-Harbi (Saudi Arabia) - Education and Training Evaluation Commission

10am **A Simulation Study of Robust Bayesian Estimation with Informative Priors and Heavy-Tailed Latent Distributions**

» Ms. Nancy Alila (United States) - University of Georgia, Prof. Zhenqiu Lu (United States) - University of Georgia

10:15am **Refreshment Break**

10:30am **Panel Discussion**

Auditorium, Baekyang Hall

Chaired by: Dr. Ye Tong (United States)

10:30am **Advancing the Standards for Educational and Psychological Testing**

» Dr. Ye Tong (United States) - National Board of Medical Examiners, Dr. Qiwei He (United States) - Georgetown University, Dr. Matthias von Davier (United States) - TIMSS & PIRLS International Study Center at Boston College, Dr. Matthew Johnson (United States) - ETS

10:30am **AI, Validity, and Reliability**

B125, Ballroom, The Commons

Chaired by: Ms. Ji yeong Ahn (Korea, Republic of)

10:30am **Agentic Large Language Models for Multimodal Physics Item Generation and Automated Item Review**

» Mr. Moses Omopekunola (Russian Federation) - HSE University

10:45am **Evaluating the Performance of LLM in Processing Bilingual Data with Code Switching Through Experimental Design**

» Ms. Muge Liu (United States) - Newport High School, Bellevue, WA, Dr. Johnny Zhang (United States) - University of Notre Dame

11am **Meta-Analysis of AI-Based Personnel Selection Tool Validity**

» Mrs. Yuting Han (China) - Beijing Language and Culture University

11:15am **Evaluating AI/RAG-Assisted Instrument Adaptation: A Network-Based Validation Framework**

» Ms. Yuchen Zhang (Canada) - University of Toronto, Mr. Nanyu Luo (Canada) - University of Toronto, Ms. Zixuan Xia (Canada) - University of Toronto, Dr. Feng Ji (Canada) - University of Toronto

11:30am **Structural Alignment and Interpretability of Sentence-Level MIL-Based Automated Essay Scoring**

» Ms. Ji yeong Ahn (Korea, Republic of) - Yonsei University, Dr. Ji Hoon Ryoo (Korea, Republic of) - Yonsei University

10:30am **Longitudinal Methods**

B126, Ballroom, The Commons

Chaired by: Dr. Satoshi Usami (Japan)

10:30am **Cycles in DSEM: Consequences of Ignorance and Misspecification**

» Ms. Yilan Chen (China) - Beijing Normal University, Prof. Hongyun Liu (China) - Beijing Normal University

10:45am **The Night Gap: Consequences for ESM Designs and Model Estimation**

» Ms. Lisa Peeters (Belgium) - KU Leuven, Prof. Wim Van Den Noortgate (Belgium) - KU Leuven, Prof. Ginette Lafit (Belgium) - KU Leuven

11am **Matrix Decomposition-Based Approach to Estimate Structural Equation Models: Focusing on the STARTS Model**

» Dr. Satoshi Usami (Japan) - The University of Tokyo



Continued from Friday, 24 July

- 11:15am **The Impact of Scaling Methods in Second-Order Latent Growth Models on Comparability with First-Order Models: A Theoretical Clarification and Simulation Study**
 » [Ms. Wang Yifan](#) (China) - South China Normal University, Prof. Zhonglin Wen (China) - South China Normal University
- 11:30am **Influential Factors in Continuous-Time Modeling for Panel Designs and Guidelines**
 » [Ms. Nuria Real-Brioso](#) (Spain) - Universidad Autónoma de Madrid, Prof. Eduardo Estrada (Spain) - Universidad Autónoma de Madrid
- 10:30am **Bayesian**
B145, The Commons
 Chaired by: Prof. Younyoung Choi (Korea, Republic of)
- 10:30am **Data-Driven Priors for Bayesian IRT via Variational Autoencoders**
 » [Dr. Rehab AlHakmani](#) (United Arab Emirates) - Emirates College for Advanced Education, Prof. Yanyan Sheng (United States) - The University of Chicago
- 10:45am **Joint Modeling of Reaction Times and Likert Responses: Parameter Robustness**
 » [Dr. David Lacko](#) (Czechia) - Institute of Psychology, Czech Academy of Sciences, Dr. Tomáš Prošek (Czechia) - Institute of Psychology, Czech Academy of Sciences, Mr. Adam Dostál (Czechia) - Institute of Psychology, Czech Academy of Sciences, Mrs. Anna Lázníčková (Czechia) - Institute of Psychology, Czech Academy of Sciences, Dr. Jiří Čeněk (Czechia) - Mendel University in Brno, Dr. Čeněk Šašinka (Czechia) - Masaryk University, Prof. Sylvie Graf (Czechia) - Institute of Psychology, Czech Academy of Sciences
- 11am **A Prediction-Oriented Specification Search for Discrete Bayesian Networks Incorporating Convex GSCA**
 » [Prof. Younyoung Choi](#) (Korea, Republic of) - Ajou University, Prof. Gyeongcheol Cho (United States) - The Ohio State University

- 11:15am **Willing and Able to Fake: A New and Flexible Item Response Model for Applicant Faking**
 » [Dr. Siwei Peng](#) (China) - Zhejiang Normal University
- 11:30am **Variable Selection in Latent Growth Models with Incomplete Longitudinal Data**
 » [Ms. Dandan Tang](#) (United States) - University of Virginia, Dr. Xin Tong (United States) - University of Virginia
- 10:30am **Novel Applications**
B146, The Commons
 Chaired by: Dr. Man Kit Lei (United States)
- 10:30am **How Much Sample Size for Internal Moderators?**
 » [Dr. Man Kit Lei](#) (United States) - University of Georgia
- 10:45am **Comparing CAT, Constrained CAT, and MST for Adaptive ELA Assessment**
 » [Dr. Jing Chen](#) (United States) - Khan Academy, Mrs. Beth Hart (United States) - Khan Academy, Mrs. Emily Janzer (United States) - Khan Academy, Dr. Lauren Deters (United States) - Khan Academy
- 11am **Predictive Validity of Strategic Personality Typology on Assessment Outcomes**
 » [Mr. Muchamad Salamun Abdul Rahman](#) (Indonesia) - PT LPP Agro Nusantara, Mr. Dwi Ari Setyo Nugroho (Indonesia) - PT LPP Agro Nusantara
- 11:15am **Modelling Mixed-Data Cognitive Measures in the Canadian Longitudinal Study on Aging**
 » [Dr. Hao Luo](#) (Canada) - University of Waterloo, Prof. Björn Andersson (Norway) - University of Oslo
- 11:30am **Invaluable: Hausman-Taylor Frameworks for Adjusting Assignment Bias in Teacher Evaluations**
 » [Ms. Qing Cai](#) (United States) - University of California, Berkeley, Prof. Sophia Rabe-Hesketh (United States) - University of California, Berkeley, Mr. Himilcon Inciarte (United States) - University of California, Berkeley



Continued from Friday, 24 July

- 10:30am **Item Response Models**
B147, The Commons
Chaired by: Prof. Seongah Im (United States)
- 10:30am **Quantifying Ipsativity and Its Impact on Pairwise Comparison Data**
» [Prof. Rodrigo Schames Kreitchmann](#) (Spain) - Universidad Nacional de Educación a Distancia, Dr. Miguel A. Sorrel (Spain) - Universidad Autónoma de Madrid, Mr. Diego Graña (Spain) - Universidad Autónoma de Madrid, Prof. Francisco J. Abad (Spain) - Universidad Autónoma de Madrid
- 10:45am **A Dirichlet IRT Model with Person-Specific Dispersion for Confidence Testing**
» [Mr. Atsushi Minamimoto](#) (Japan) - The University of Tokyo, Dr. Kensuke Okada (Japan) - The University of Tokyo
- 11am **Extending the Residual DIF Framework to Mixed-Format Assessments**
» [Ms. Hyun|oo Jung](#) (Korea, Republic of) - Inha University, Dr. Hwanggyu Lim (Korea, Republic of) - Inha University
- 11:15am **On the Asymmetry, Complexity, and Predicted Data Patterns of Item Response Theory Models**
» [Dr. Hyejin Shim](#) (United States) - University of Missouri, Dr. Wes Bonifay (United States) - University of Missouri
- 11:30am **Item-Level Distributional Treatment Effects (IL-DTE) for Bounded Continuous Responses: A Beta Multilevel Modeling Approach**
» [Prof. Seongah Im](#) (United States) - University of Hawaii at Manoa
- 10:30am **Symposium: Modeling Change and Stability**
Room 101, School of Business
Chaired by: Dr. Marie Annelise Blanchard (Belgium)

- 10:30am **Identifying Personalized State Dynamics Using the Multilevel Hidden Markov Model**
» [Mr. Pepijn Vink](#) (Netherlands) - Utrecht University, Dr. Emmeke Aarts (Netherlands) - Utrecht University
- 10:45am **The Shape of Decay: A Comparison of Discounting Models Within Affect Dynamics**
» [Dr. Niels Vanhasbroeck](#) (Netherlands) - University of Amsterdam
- 11am **Understanding Emotion Dynamics at the Emotional Event Level: Feature Extraction and Survival Analysis**
» [Ms. Yuanyuan Ji](#) (Belgium) - KU Leuven, Dr. Marieke Schreuder (Belgium) - KU Leuven, Prof. Ginette Lafit (Belgium) - KU Leuven, Prof. Eva Ceulemans (Belgium) - KU Leuven
- 11:15am **Lingering Over Time: How Do Authors Define and Model (Emotional) Inertia? a Scoping Review**
» [Dr. Marie Annelise Blanchard](#) (Belgium) - KU Leuven, Ms. Lisa Peeters (Belgium) - KU Leuven, Prof. Alexandre Heeren (Belgium) - UCLouvain, Prof. Eva Ceulemans (Belgium) - KU Leuven
- 11:30am **Context and Dynamic Regression Models: A Systems Perspective**
» [Dr. Sigert Ariens](#) (Belgium) - KU Leuven, Dr. Niels Vanhasbroeck (Netherlands) - University of Amsterdam, Prof. Ginette Lafit (Belgium) - KU Leuven, Prof. Eva Ceulemans (Belgium) - KU Leuven
- 10:30am **Symposium: Measurement Invariance Assessment with Intensive Longitudinal Data**
Room 102, School of Business
Chaired by: Dr. Siwei Liu (United States)
- 10:30am **A Tutorial for Multi-Level Multi-Group Confirmatory Factor Analysis in Intensive Longitudinal Data**
» [Dr. Sojin Yoon](#) (Canada) - University of Alberta, Dr. Yue Wang (Canada) - University of Alberta, Dr. Yao Zheng (Canada) - University of Alberta



Continued from Friday, 24 July

10:45am **Consequences of Measurement Non-Invariance in the Analysis of Intensive Longitudinal Data**

» [Dr. Siwei Liu](#) (United States) - University of California, Davis, Ms. Hankyul Kim (United States) - University of California, Davis, Dr. Sebastian Castro-Alvarez (Netherlands) - University of Groningen, Dr. Mark Lai (Macao) - University of Macau

11am **Measurement Invariance in Intensive Longitudinal Data: Implementation of Current Methods**

» [Ms. Hankyul Kim](#) (United States) - University of California, Davis, Dr. Sebastian Castro-Alvarez (Netherlands) - University of Groningen, Dr. Siwei Liu (United States) - University of California, Davis

11:15am **Measurement Invariance Testing Using Person-Mean Centering in Intensive Longitudinal Data**

» [Dr. Eunsook Kim](#) (United States) - University of South Florida, Dr. Chunhua Cao (United States) - University of Alabama, Dr. Yan Wang (United States) - University of Massachusetts Lowell

11:30am **Sensitivity to Measurement Noninvariance in Intensive Longitudinal Factor Models**

» [Mr. Daniel Martin](#) (United States) - Claremont Graduate University, Dr. Dakota Cintron (United States) - Claremont Graduate University

10:30am **Factor Analysis**

Room 103, School of Business

Chaired by: Dr. Christine DiStefano (United States)

10:30am **Using a Mixture of Continuous and Categorical Observed Variables with Confirmatory Factor Analysis**

» [Dr. Christine DiStefano](#) (United States) - University of South Carolina, Dr. Dexin Shi (United States) - University of South Carolina, Ms. Guyin Zhang (United States) - University of South Carolina

10:45am **Beyond Magnitude: Cross-Loading Proportion Effects on Factor Retention Methods**

» [Prof. Wenjuo Lo](#) (United States) - University of Arkansas, Ms. ISIS MARTEL (United States) - University of Arkansas, Dr. Mary Margaret Cunningham (United States) - Arkansas State University

11am **Revisiting the Dimensionality of the Rosenberg Self-Esteem Scale Under Careless Responding**

» [Mr. Tugay Kaçak](#) (Türkiye) - Trakya University, Dr. Gül Güler (Türkiye) - Trakya University

11:15am **A Solution to the Long-Standing Problem of Nonpositive-Definite Latent Covariances**

» [Mr. Marcos Jiménez](#) (Netherlands) - Vrije Universiteit Amsterdam, Prof. Mauricio Garnier-Villarreal (Netherlands) - Vrije Universiteit Amsterdam, Dr. Vithor R. Franco (Brazil) - Universidade São Francisco

11:30am **An L1-Rotation Criterion for Exploratory Bifactor Analysis**

» [Dr. Tamara Gaia Vasiljev](#) (Italy) - University of Milano-Bicocca, Dr. Camilo Cardenas (United Kingdom) - London School of Economics, Prof. Yunxiao Chen (United Kingdom) - London School of Economics, Prof. Irini Moustaki (United Kingdom) - London School of Economics

10:30am **Classification**

S504, 5th Floor, Baekyang Hall

Chaired by: Prof. Carl Falk (Canada)

10:30am **Modeling Item Survival as a Partially Observed Multi-State Process in Large-Scale Assessment Programs**

» [Dr. Allison Ames](#) (United States) - National Board of Medical Examiners, Dr. Leslie Keng (United States) - National Board of Medical Examiners

10:45am **Diagnostic Accuracy Statistic Corrected for Class/Disease Prevalence**

» [Prof. Rashid Almehrizi](#) (Oman) - Sultan Qaboos University, Dr. Sabah Assi (Oman) - Dhofar University



Continued from **Friday, 24 July**

11am **Unsupervised Simultaneous Detection of Random and Patterned Responses**

» [Prof. Carl Falk](#) (Canada) - McGill University, [Mr. Wenshuo Li](#) (Canada) - McGill University, [Dr. Michael Ilagan](#) (Canada) - University of Alberta

11:15am **From Data-Driven to Data-Free: A Comparative Study of Generative AI and Optimization Methods for Scale Abbreviation**

» [Dr. Yiling Cheng](#) (Taiwan) - National Sun Yat-sen University, [Dr. Mark Reackase](#) (United States) - Michigan State University

11:30am **Evaluating and Combining Theories Across Disciplines: A Predictive Modeling Framework**

» [Mr. Zino Brystowski](#) (Netherlands) - Leiden University, [Prof. Mark de Rooij](#) (Netherlands) - Leiden University, [Dr. Marjolein Fokkema](#) (Netherlands) - Leiden University, [Prof. Hilde Huizenga](#) (Netherlands) - University of Amsterdam, [Dr. Jalmar Teeuw](#) (Netherlands) - Leiden University

11:45am **Lunch (on your own)**

Local establishments

1:15pm **Presidential Address**

Auditorium, Baekyang Hall

Chaired by: [Prof. Jimmy de la Torre](#) (Hong Kong)

A Few of My Favorite Things: Diagnostic Models, Efficient Bayesian Computation, and New Latent Structures

» [Steven Andrew Culpepper](#) (United States) - University of Illinois Urbana-Champaign

2:15pm **Member Meeting**

Auditorium, Baekyang Hall

2:45pm **Award Ceremony**

Auditorium, Baekyang Hall

3:45pm **Break**

6pm **Closing Banquet**

Alumni Hall