Monday, 20 July

9am

Short Course #1
B145, The Commons
Chaired by: Alina von Davier (United States) and Duanli Yan (United States)

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

9am

Short Course #2: Part I
B146, The Commons
Chaired by: Sacha Epskamp (Singapore) and Adela Isvoranu (Singapore)

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

9am

Short Course #3
B147, The Commons
Chaired by: Yinghan Chen (United States) and Xue Wang (China) and Shiyu Wang (United States)

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

12:30pm

Lunch (on your own)
Local establishments

1:30pm

Short Course #2: Part II
B146, The Commons

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

2pm

Short Course #5
B145, The Commons
Chaired by: Tracy Sweet (United States)

An Introduction to Multilevel Models
» Tracy Sweet (United States) - University of Maryland

2pm

Short Course #4
B147, The Commons
Chaired by: Minjeong Jeon (United States)

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

Tuesday, 21 July

9am

Welcome Remarks
Auditorium, Baekyang Hall
Chaired by: Steven Culpepper (United States) and Ji Hoon Ryoo (Korea, Republic of)

9:15am

Keynote Speaker
Auditorium, Baekyang Hall
Chaired by: Steven Culpepper (United States)

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

Continued from **Tuesday, 21 July**

10:15am **Refreshment Break**
B132, The Commons

10:30am **Invited Speaker**
Auditorium, Baekyang Hall
Chaired by: Yunxiao Chen (United Kingdom)

Statistical Analysis of Large-scale Item Response Data under Measurement Non-invariance
» Jing Ouyang (Hong Kong) - The University of Hong Kong

10:30am **Invited Speaker**
Grand Ballroom, The Commons
Chaired by: Ji Hoon Ryoo (Korea, Republic of)

How is the Virtuous Cycle of Knowledge Achieved Across the Spectrum of Quantitative Research
» Sang-Jin Kang (Korea, Republic of) - Yonsei University

11:15am **Lunch (on your own)**
Local establishments

12:45pm **Symposium: Rethinking Estimation: New Perspectives for Measurement, Modeling, and Inference**
Auditorium, Baekyang Hall
Chaired by: Jolynn Pek (United States)

12:45pm **Scoring and Reliability with Omega from Estimated Measurement Models**
» Alberto Maydeu-Olivares (United States) - University of South Carolina, Jolynn Pek (United States) - The Ohio State University, Yang Liu (United States) - University of Maryland, Terrence Jorgensen (Netherlands) - University of Amsterdam

1pm **Equation-by-Equation Estimation of SEMs**
» Alberto Maydeu-Olivares (United States) - University of South Carolina, Yves Rosseel (Belgium) - Ghent University

1:15pm **Model Identification in CFA**
» Cathy (Xijuan) Zhang (Canada) - York University, Hao Wu (United States) - Vanderbilt University, Victoria Savalei (Canada) - University of British Columbia, Lianjie Shi (Canada) - University of British Columbia

1:30pm **Classification Trees for Method Selection in Tetrachoric Correlation Estimation**
» Jeongwon Choi (United States) - Vanderbilt University, Hao Wu (United States) - Vanderbilt University

1:45pm **Two-Stage Estimation of Latent Variable Regression Models: A General, Root-N Consistent Solution**
» Yang Liu (United States) - University of Maryland, College Park, Xiaohui Luo (China) - Beijing Normal University, Jieyuan Dong (China) - Beijing Normal University, Youjin Sung (United States) - University of Maryland, College Park, Yueqin Hu (China) - Beijing Normal University, Hongyun Liu (China) - Beijing Normal University, Daniel Bauer (United States) - University of North Carolina at Chapel Hill

12:45pm **Symposium: Culturally Responsive Considerations for Scale Development**
B125, Ballroom, The Commons
Chaired by: Tamara Bertrand Jones (United States)

12:45pm **Culturally Responsive Considerations for Scale Development**
» Cherie Avent (United States) - University of Illinois Urbana-Champaign, Aixa Marchand (United States) - University of Illinois Urbana-Champaign

1pm **Culturally Responsive Considerations for Scale Development**
» Courtney Stone (United States) - University of Illinois Urbana-Champaign

Continued from **Tuesday, 21 July**

1:15pm **Developing the Culturally Responsive Advising Scale-Black Americans**
» Tamara Bertrand Jones (United States) - University of Illinois Urbana-Champaign, Helen Neville (United States) - University of Illinois Urbana-Champaign, Nia Mitchell (United States) - University of Illinois Urbana-Champaign

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

1:45pm **Statistical Humanism: Culturally Responsive Considerations for Measurement**
» Malaika McKee (United States) - University of Illinois Urbana-Champaign

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

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

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

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

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

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

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

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

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

1:15pm **Item Parameter Prediction via ICC-Informed Deep Learning and LLM Features**
» 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**
» Eun Hye Ham (Korea, Republic of) - Kongju National University, Yun-Kyung Kim (United States) - University of California, Los Angeles

1:45pm **Rater Disagreement in Essay Scoring: Exploring Linguistic and Semantic Predictors**
» Hoon Kim (Korea, Republic of) - Korea Institute for Curriculum and Evaluation, Min-ho Kwak (Korea, Republic of) - Korean Institute for Curriculum and Evaluation

12:45pm **Symposium: Toward Human-Centered Psychometrics in the AI Era**
B146, The Commons
Chaired by: Ji Hoon Ryoo (Korea, Republic of)

12:45pm **Vision for the Human Connections Initiative – Directions and Opportunities**
» Ju-Ho Lee (United States) - Arizona State University

1pm **Challenges for Measuring Human Connections: Views from Psychometric Sciences**
» Ji Hoon Ryoo (Korea, Republic of) - Yonsei University

1:15pm **Innovations from Healthcare Education for Measuring Human Connections**
» Yoon Soo Park (United States) - University of Illinois, Chicago

1:30pm **Making the Connection: Building and Measuring Personal Connections with a Technology Powered System**
» Bethany Gross (United States) - Western Governors University

1:45pm **Dimensionalizing Human Listening: Toward a Measurement Framework for Communication and Human Connection**
» Krista Ratcliffe (United States) - Arizona State University, Kyle Jensen (United States) - Arizona State University

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

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

1pm **Longitudinal Trends in Item Difficulty and Discrimination on NBCE Examinations Across Pre-COVID, COVID, and AI-Prevalent Periods**
» Igor Himelfarb (United States) - National Board of Chiropractic Examiners, Nai-En Tang (United States) - National Board of Chiropractic Examiners, 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**
» Pawel Jurek (Poland) - University of Gdansk, Michal Olech (Poland) - Medical University of Gdansk, Bartosz Radtke (Poland) - Laboratory of Psychological and Educational Tests, Urszula Sajewicz-Radtke (Poland) - Laboratory of Psychological and Educational Tests

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

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

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

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

Continued from **Tuesday, 21 July**

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

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

1:30pm **Drclust: An R Package for Simultaneous Clustering and Dimensionality Reduction**
» Ionel Prunila (Italy) - Sapienza University of Rome, Maurizio Vichi (Italy) - Sapienza University of Rome

1:45pm **Model-Based Unsupervised Classification and Reduction of Three-Way Ordinal Data**
» Roberto Rocci (Italy) - Sapienza University of Rome, 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: František Bartoš (Netherlands)

12:45pm **Good Scientific Practices for Simulation Studies**
» Richard Feinberg (United States) - National Board of Medical Examiners, Carolin Strobl (Switzerland) - University of Zurich

1pm **Toward Reporting Standards for Methodological Research**
» Karoline Huth (Netherlands) - University of Amsterdam

1:15pm **Transparency Over the Life-Cycle of a Simulation Study**
» Mirka Henninger (Switzerland) - University of Basel, R. Philip Chalmers (Canada) - York University, Carolin Strobl (Switzerland) - University of Zurich

1:30pm **Multi-Method Specification Curves for Presenting Simulation Results**
» David Kronthaler (Switzerland) - University of Zurich, Carolin Strobl (Switzerland) - University of Zurich

1:45pm **Living Synthetic Benchmarks: A Neutral and Cumulative Framework for Simulation Studies**
» František Bartoš (Netherlands) - University of Amsterdam, Samuel Pawel (Switzerland) - University of Zurich, Björn S. Siepe (Germany) - University of Marburg

12:45pm **Cognitive Diagnostic Models**
Room 103, School of Business
Chaired by: Camilo Cardenas (United Kingdom)

12:45pm **Identifiability of Partial Mastery DINA Models**
» Jun Wu (Czechia) - Institute of Computer Science of the Czech Academy of Sciences, Patrícia Martinková (Czechia) - Institute of Computer Science of the Czech Academy of Sciences, Elena Erosheva (United States) - University of Washington

1pm **Q-Matrix Validation using the Minimax Concave Penalty**
» Daoxuan Fu (China) - Sun Yat-sen University, Junhao Pan (China) - Sun Yat-sen University

1:15pm **Integrating SDT into CDMs: A Discrimination-Weighted Approach**
» Yen-Ting Chen (Taiwan) - National Sun Yat-sen University, Jyun-Hong Chen (Taiwan) - National Cheng Kung University

1:30pm **Stick-Breaking Pólya-Gamma Bayesian Inference for Multiple Choice SDT**
» Takumi Itamiya (Japan) - Dwango Co., Ltd.

Continued from **Tuesday, 21 July**

1:45pm **A Generalized Additive Partial-Mastery Cognitive Diagnosis Model**
» Camilo Cardenas (United Kingdom) - London School of Economics, Yunxiao Chen (United Kingdom) - London School of Economics, Irini Moustaki (United Kingdom) - London School of Economics

2pm **Walking Break**

2:15pm **Presidential Panel Discussion**
Auditorium, Baekyang Hall
Chaired by: Nidhi Kohli (United States) and Chun Wang (United States)

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

2:15pm **Item Response Models**
B125, Ballroom, The Commons
Chaired by: James Uanhoro (United States)

2:15pm **Heterogeneous Conditional Dependence Between Response Time and Accuracy as Evidence for Cheating Detection**
» Tai Sun Jeong (United States) - University of Wisconsin - Madison, James Wollack (United States) - University of Wisconsin - Madison

2:30pm **A Comparison of Model-Based and Model-Agnostic Approaches to Detecting Careless Responding**
» Wenshuo Li (Canada) - McGill University, Carl Falk (Canada) - McGill University

2:45pm **Reconsidering Measurement Invariance in ICCS: A Robust Scaling Approach**
» Pablo Torres Irribarra (Germany) - International Association for the Evaluation of Educational Achievement, Diego Carrasco (Chile) - Pontificia Universidad Católica de Chile

3pm **Local Dependence in LCA and LPA: Detection and Modeling**
» Mingyeong Song (Korea, Republic of) - Ewha Womans University, Su-Young Kim (Korea, Republic of) - Ewha Womans University

3:15pm **Regression Calibration Outperforms Plausible Values in Regression with Scores from Short Scales**
» James Uanhoro (United States) - University of North Texas, Nivedita Bhaktha (India) - Indian Institute of Technology Kanpur

2:15pm **Longitudinal Methods**
B126, Ballroom, The Commons
Chaired by: Kyungmin Lim (Korea, Republic of)

2:15pm **Dealing with Missingness in SPC Monitoring of ESM Data**
» Fien De Pauw (Belgium) - KU Leuven, Evelien Schat (Belgium) - KU Leuven, Francis Tuerlinckx (Belgium) - KU Leuven, Eva Ceulemans (Belgium) - KU Leuven

2:30pm **The Illusion of Zero Effects: Unmasking Attenuation Bias in Intensive Longitudinal Data**
» Hsiu-Ting Yu (Taiwan) - National Chengchi University

2:45pm **Real-Time and Person-Specific Detection of Declining Data Quality in Experience Sampling Studies**
» Evelien Schat (Belgium) - KU Leuven, Eva Ceulemans (Belgium) - KU Leuven

3pm **Impact of Response Scale on Location-Scale Model Estimation**
» Soyoung Kim (Korea, Republic of) - Chonnam National University

3:15pm **Systematic Bias in Latent Growth Models with Binary Variables**
» Kyungmin Lim (Korea, Republic of) - Ewha Womans University, Su-Young Kim (Korea, Republic of) - Ewha Womans University

Continued from **Tuesday, 21 July**

2:15pm **Network Psychometrics**
B145, The Commons
Chaired by: Klint Kanopka (United States)

2:15pm **Network Psychometrics: Solutions to Node Redundancy**
» Abraham Iniguez (United States) - University of California, Davis, Jonathan Park (United States) - University of California, Davis, Mijke Rhemtulla (United States) - University of California, Davis

2:30pm **Modeling Fast-Slow Timescale Coupling in Psychological Systems**
» Kyuri Park (Netherlands) - University of Amsterdam, Denny Borsboom (Netherlands) - University of Amsterdam, Mike Lees (Netherlands) - University of Amsterdam, Lourens Waldorp (Netherlands) - University of Amsterdam, Johan Bollen (Netherlands) - University of Amsterdam, Vítor V. Vasconcelos (Netherlands) - University of Amsterdam

2:45pm **Quantifying the Threat of Trait-State Confounding to Mediation Validity**
» Mengyang Liu (China) - City University of Hong Kong

3pm **Dyadic Transmission of Depression and Anxiety among US Older Couples**
» Min Liu (United States) - Baylor University, Jinyu Liu (United States) - Baylor University

3:15pm **Unraveling the Structure of Suicidal Ideation: A Network Psychometric Approach**
» Klint Kanopka (United States) - New York University, Eliabeth Kroll (United States) - Charlie Health, Matthew Murray (United States) - Charlie Health, Caroline Fenkel (United States) - Charlie Health

2:15pm **AI and Clustering**
B146, The Commons
Chaired by: Minho Lee (United States)

2:15pm **Latent Profile Modeling with NLP-Derived Text Features and Response Time Telemetry**
» Sunhee Kim (United States) - The College Board, Judit Antal (United States) - The College Board

2:30pm **Predicting Relative Item Difficulty Using LLMs**
» Ye Yuan (United States) - Graduate Management Admission Council ®, Kyung T. Han (United States) - Graduate Management Admission Council

2:45pm **A New Framework for the Identification of Representative Trees from Subforests Composed of Accurate and Diverse Trees**
» Jincheol Lim (Korea, Republic of) - Sejong University, Korea, Somi Kim (Korea, Republic of) - Sejong University, Korea, Kyung-Seok Min (Korea, Republic of) - Sejong University, Korea

3pm **Out-of-Sample Prediction and Reliability in Cognitive Diagnosis Models**
» Diego Iglesias (Spain) - Universidad Autónoma de Madrid, Miguel A. Sorrel (Spain) - Universidad Autónoma de Madrid, Ricardo Olmos (Spain) - Universidad Autónoma de Madrid, Jimmy de la Torre (Hong Kong) - University of Hong Kong

3:15pm **A Constrained Clustering Algorithm to Form Learning Groups for Effective Instruction**
» Minho Lee (United States) - University of Notre Dame, Cheng Liu (United States) - University of Notre Dame

2:15pm **Longitudinal Methods**
B147, The Commons
Chaired by: Hok Chio Lai (Macao)

2:15pm **Performance of a Longitudinal Polytomous IRT Model under Small Sample Conditions**
» Kong ju Suh (Korea, Republic of) - Keimyung University, Chanho Park (Korea, Republic of) - Keimyung University

Continued from **Tuesday, 21 July**

2:30pm **Impact and Handling of Non-Normal Data in Multilevel Autoregressive Models**
» Yue Xiao (China) - East China Normal University, Hongyun Liu (China) - Beijing Normal Univeristy

2:45pm **Stepwise Exploratory Latent Vector Autoregressive Modelling of Individual Affect Dynamics**
» Shannon Dickson (Belgium) - KU Leuven, Kim De Roover (Belgium) - KU Leuven, Eva Ceulemans (Belgium) - KU Leuven

3pm **Penalized Longitudinal Factor Models with an Approximate L0 Penalty**
» Hok Chio Lai (Macao) - University of Macau, Meltem Ozcan (United States) - University of Southern California

3:15pm **Complementing Measurement Decision Theory Using Bayesian Knowledge Tracing**
» Youngjun Lee (United States) - The American Board of Anesthesiology, Susan Hibbard (United States) - The American Board of Anesthesiology

2:15pm **Symposium: Generative AI and Psychometrics**
Room 101, School of Business
Chaired by: Hudson Golino (United States)

2:15pm **Prompt Engineering for Scale Development in Generative Psychometrics**
» Lara Lee Russell-Lasalandra (United States) - University of Virginia, Hudson Golino (United States) - University of Virginia

2:30pm **A Network-Based Complexity Approach to Measuring Abstraction in Large Language Model Text Outputs**
» Xiatian Chu (United States) - University of Virginia, Hudson Golino (United States) - University of Virginia

2:45pm **Using Multiagent LLM for Q-Matrix Validation in Cognitive Diagnosis**
» Yiming Chen (United States) - University of Minnesota, Xiaojiayi Wang (United States) - University of Minnesota, Yikai Lu (United States) - University of Minnesota, Wenchao Ma (United States) - University of Minnesota

3pm **LLM Agent Accuracy for Automatic Database Construction**
» Iain Ramirez (United States) - University of Virginia, Hudson Golino (United States) - University of Virginia

3:15pm **Prompt Engineering for Evaluating Creativity with Multimodal Large Language Models**
» Jinmin Chung (United States) - The University of Iowa, Haeju Lee (United States) - University of North Carolina, Sungyeun Kim (Korea, Republic of) - Incheon National University

2:15pm **Causal Inference**
Room 102, School of Business
Chaired by: Yong-Won Lee (Korea, Republic of)

2:15pm **Instrument-Based Falsification Tests for Item Bias in Reading Assessments**
» Naram Gwak (Korea, Republic of) - Seoul National University

2:30pm **On the Identification of Item Bias via Difference-in-Differences**
» Sangyun Lee (Korea, Republic of) - Gwangju Munsan Elementary School, Yongnam Kim (Korea, Republic of) - Seoul National University

2:45pm **Re-Conceptualizing Consequential Validity in Diagnostically-Oriented Tests**
» 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**
» Beom Kwon (United States) - University of Wisconsin - Madison, Hyunseung Kang (United States) - University of Wisconsin - Madison

Continued from **Tuesday, 21 July**

3:15pm **Causal Inference for Assessment Outcomes Under Measurement Model Uncertainty**
» Xiangyi Liao (Canada) - University of British Columbia

2:15pm **Dynamical Systems Modeling**
Room 103, School of Business
Chaired by: Jonathan Park (United States)

2:15pm **Affect and Emotions Within the Sense-Making Phase Transition Framework**
» Miguel Bosch Francisco (Spain) - Universidad Autónoma de Madrid

2:30pm **Detecting Abrupt Shifts in Cognitive Development Trajectories**
» Marcos Romero-Suárez (Spain) - Universidad Autónoma de Madrid, Sy-Miin Chow (United States) - The Pennsylvania State University, Pablo F. Cáncer (Spain) - Universidad Pontificia Comillas, Eduardo Estrada (Spain) - Universidad Autónoma de Madrid

2:45pm **The Implications of Modeling Dynamic Factors as Networks**
» Jonathan Park (United States) - University of California, Davis

3pm **Dynamic Latent Variable Models for Log Data from Learning Platforms**
» Ji Yun Lee (United States) - University of Texas at Austin, Hyeon-Ah Kang (United States) - University of Texas at Austin

3:30pm **Refreshment Break**
B132, The Commons

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

Assembling the Diagnostic Puzzle: Multimodal Perspectives on Cognitive Diagnosis
» 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
» Brein Mosely (United States) - Harvard University

Machine Learning Hesitant: W.E.B. Du Bois, Problem Framing and the Politics of Abstraction
» Ngozi Harrison (United States) - University of California, Los Angeles

Quantifying Similarity Across Automatic Item Generated Parallel Forms
» Emily Ho (United States) - Northwestern University, David Budescu (United States) - Fordham University

Impact of Parameter Type and Multidimensional Structure on the Holistic Fitting Propensity of Dichotomous IRT Models
» Ezgi Aytürk (Türkiye) - Koç University, Leah Feuerstahler (United States) - Fordham University

Mutual Information-Based Exploratory Graph Analysis for Factor Structure Recovery
» Youngjin Kim (Korea, Republic of) - Korea Institute for Curriculum and Evaluation, Yejin Woo (Korea, Republic of) - Ewha Womans University, Hoon Kim (Korea, Republic of) - Korea Institute for Curriculum and Evaluation, Nagap Park (Korea, Republic of) - Yonsei University

Investigation of Metric Invariance in Structural Equation Model Trees
» Minju Hong (Korea, Republic of) - Chung-Ang University, Juyeon Lee (Korea, Republic of) - Korean Educational Development Institute

Automated Item Generation for Parallel Forms Using Multi-Agent Systems
» Seojun Lee (Korea, Republic of) - Hallym University, Dong Gi Seo (Korea, Republic of) - Hallym University

Continued from **Tuesday, 21 July**

Beyond MCAR: Conditions Under Which Complete Case Analysis Remains Valid

» Siyi Wang (Canada) - University of Toronto, Feng Ji (Canada) - University of Toronto

Developing a Generative AI Dependence Scale Using LLM Simulations

» Hyunyee Song (Korea, Republic of) - Yonsei University, Minchae Noh (Korea, Republic of) - Yonsei University, Hanjoe Kim (Korea, Republic of) - Yonsei University

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

» Ashley Heady (United States) - University of Georgia, Beltran Pantoja De Prada (United States) - University of Georgia, Nancy Alila (United States) - University of Georgia, Matthew Madison (United States) - University of Georgia

Integrating RMSD into Bayesian Posterior Predictive DIF Detection for ILSAs

» Sean Joo (United States) - University of Kansas, Jung Yeon Park (United States) - George Mason University

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

» Jinnie Shin (United States) - University of Florida, Anna Pauline Aguinalde (United States) - University of Florida

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

» Wei Wang (United States) - The CUNY Graduate Center, Edward Xue (United States) - Baruch College and Graduate Center, CUNY

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

» Junjie Ma (Canada) - University of Toronto, Feng Ji (Canada) - University of Toronto

Response-Free Rasch Difficulty Prediction via Option Interaction Modeling

» Jan Netík (Czechia) - Institute of Computer Science, Czech Academy of Sciences; Charles University, Patrícia Martinková (Czechia) - Institute of Computer Science, Czech Academy of Sciences; Charles University

The Role of the Intraclass Correlation Coefficient in Multilevel Analysis

» Yasuhiro Yamamoto (Japan) - Okayama University, 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

» Vivato Andriamiarana (Germany) - Tübingen University

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

» Young Ze Kim (Korea, Republic of) - Yonsei University, Gyeongcheol Cho (United States) - The Ohio State University, Hanjoe Kim (Korea, Republic of) - Yonsei University

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

» Hyeongseop Kim (Korea, Republic of) - Yonsei University, Guemin Lee (Korea, Republic of) - Yonsei University

Detecting Differences in Latent Means Under Varying Partial Equivalence Conditions

» Cheng-Hsien Li (Taiwan) - National Sun Yat-sen University

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

» Hangyu Kim (Korea, Republic of) - Kyungpook National University, Jungkyu Park (Korea, Republic of) - Kyungpook National University

Robust Weighted Sequential Detection of Compromised Items in CAT

» Huang Yao-Hsuan (Taiwan) - National Taiwan Normal University, Chen Po-Hsi (Taiwan) - National Taiwan Normal University

Continued from **Tuesday, 21 July**

Using IRT to Test Competing Explanations for Comorbidity in BPD

» Eun Sun Lee (United States) - University of South Florida, Bori Jung (United States) - University of South Florida, Marina Bornovalova (United States) - University of South Florida

Intervention Simulations for Insomnia Using Bridge Centrality in Networks

» Megumi Kato (Japan) - Senshu University, Takumi Omizu (Japan) - Senshu University, Yoshihiko Kunisato (Japan) - Senshu University

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

» Jing Chen (United States) - Khan Academy, Scott Frohn (United States) - Khan Academy, Tyler Burleigh (United States) - Khan Academy

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

» Simran Johal (United States) - University of Oregon, Natalie Bondurant (United States) - University of California, Davis, Esther Ulitzsch (Norway) - University of Oslo, Mijke Rhemtulla (United States) - University of California, Davis

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

» Heekyung Moon (Korea, Republic of) - Korea University, Taehun Lee (Korea, Republic of) - Korea University

Selective Data Fusion to Augment Randomized Trials with External Data

» Seyda Aydin (Germany) - University of Tübingen, Holger Brandt (Germany) - Tübingen University

A Latent Dirichlet Allocation Analysis of Knowledge Tracing Research Trends

» Seung-Ri Choo (Korea, Republic of) - Ewha Womans University, Youn-Jeng Choi (Korea, Republic of) - Ewha Womans University

Detecting High Loneliness in University Students using Machine Learning

» Sunyoung Won (Taiwan) - National Taiwan University, Kaiping Yao (Taiwan) - National Taiwan University, Li-Chung Lin (Taiwan) - Chung Yuan Christian University

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

» Yonggi Lang (United States) - University of Utah, Lisa Diamond (United States) - University of Utah, Pascal Deboeck (United States) - University of Utah

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

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

Parallel Analysis and Competing Methods in Bifactor Models with Noise

» Zexuan Jiang (United States) - University of Illinois Urbana-Champaign, Yan Xia (United States) - University of Illinois Urbana-Champaign

Causal Inference of Gamification Effects Using Bayesian Network Modeling

» Yeji Jang (Korea, Republic of) - Ewha Womans University, Chaeyeon Lee (Korea, Republic of) - Ewha Womans University, Sumin An (Korea, Republic of) - Ewha Womans University, Hye-Eun Seok (Korea, Republic of) - Kyungpook National University

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

» Daisuke Shimada (Japan) - Tokyo Metropolitan University, Kensuke Okada (Japan) - The University of Tokyo

Continued from **Tuesday, 21 July**

Scaling and Estimation of Growth Models with Categorical Indicator Variables

» Kyungmin Lim (Korea, Republic of) - Ewha Womans University, Su-Young Kim (Korea, Republic of) - Ewha Womans University

Implementing Dynamic Latent Class Structural Equation Models in JAGS

» Sofia Morelli (Germany) - Tübingen University, Roberto Faleh (Germany) - Tübingen University, Holger Brandt (Germany) - Tübingen University

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

» Young Soo Lee (Korea, Republic of) - Sogang University, Hye Won Suk (Korea, Republic of) - Seoul National University

Estimating Inverse Temperature in Individual Networks Using Dynamic Ising Models

» Takumi Omizu (Japan) - Senshu University, Yoshihiko Kunisato (Japan) - Senshu University

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

» Maryam Al Wahaibi (Oman) - Sultan Qaboos University, Nasar Al Wahaibi (Oman) - Sultan Qaboos University, Shahd Al Ghawi (Oman) - Sultan Qaboos University, Fatema Al Ajaimi (Oman) - Sultan Qaboos University, Hoor Al Habsi (Oman) - Sultan Qaboos University, Maria Al Azri (Oman) - Sultan Qaboos University, Mohammed Al Badi (Oman) - Sultan Qaboos University

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

» Siwon Kim (Korea, Republic of) - Yonsei University, Youngmin Kwon (Korea, Republic of) - Yonsei University, Guemin Lee (Korea, Republic of) - Yonsei University

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

» Baoqun Chang (China) - Northeast Normal University, Chun Wang (United States) - University of Washington, Jing Lu (China) - Northeast Normal University, Jiwei Zhang (China) - Northeast Normal University

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

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

A Novel Mixture Item Response Theory Model for Guessing Behavior

» Fei Gao (China) - University of California, Merced, Ren Liu (China) - University of California, Merced, Haiyan Liu (United States) - University of California, Merced

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

» Heather Harris (United States) - Workday

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

» Yiqing Quan (Hong Kong) - The Hong Kong Polytechnic University, Chi Kit Jacky Ng (Hong Kong) - The Hong Kong Polytechnic University

Effects of DIF Items on Routing and θ Estimation in MST

» Jiyeon Kim (Korea, Republic of) - Yonsei University, Guemin Lee (Korea, Republic of) - Yonsei University

The Importance of Covariate Control in Nonequivalent Groups Design Studies

» Eungi Jeon (Korea, Republic of) - Yonsei University, Hanjoe Kim (Korea, Republic of) - Yonsei University

Continued from **Tuesday, 21 July**

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

» Seungchan Yu (Korea, Republic of) - Yonsei University, Inhan Kang (Korea, Republic of) - Yonsei University

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

» Tzu-Yang Chao (Taiwan) - National Taiwan Normal University, 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

» In-Hee Choi (Korea, Republic of) - Sookmyung Women's University

Bayesian Multilevel Modeling for Handling Missing Responses and Background Covariates

» Jialing Tan (China) - Northeast Normal University, Chun Wang (United States) - University of Washington, Jiwei Zhang (China) - Northeast Normal University, Jing Lu (China) - Northeast Normal University

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

» Myung In Ahn (Korea, Republic of) - Seoul National University, Hye Won Suk (Korea, Republic of) - Seoul National University

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

» Kevin Kistermann (Germany) - Tübingen University, Vivato Andriamiarana (Germany) - Tübingen University, Augustin Kelava (Germany) - Tübingen University

Exploring Developmental Trajectory of Multicultural Adolescents with Latent Class Analysis

» Jeong U Kim (Korea, Republic of) - Sungshin Women's University, 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

» Show-Li Jan (Taiwan) - Chung Yuan Christian University, Gwowen Shieh (Taiwan) - National Yang Ming Chiao Tung University

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

» Yoo Ri Hwang (United States) - University of California, Davis, 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

» Leanne Ketterlin Geller (United States) - Southern Methodist University, Joanne Joo (United States) - Southern Methodist University, Yusuf Kara (United States) - University of Miami

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

» Yi-Ling Lai (Taiwan) - National Taiwan University, Li-Chung Lin (Taiwan) - Chung Yuan Christian University, Sue-Huei Chen (Taiwan) - National Taiwan University

Constraining Extreme Response Styles in Multiscale Partial Credit Models

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

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

» Hanna Rajh-Weber (Austria) - University of Graz, Stefan Huber (Austria) - University of Graz, Martin Arendasy (Austria) - University of Graz

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

» Timo Seitz (Germany) - University of Mannheim, Alexandra Michelle Schardt (Germany) - University of Mannheim, Maik Spengler (Germany) - HR Diagnostics

Continued from **Tuesday, 21 July**

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

» Mingchuan Hsieh (Taiwan) - National Academy for Educational Research

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

» Tzu-Yang Chao (Taiwan) - National Taiwan Normal University, Chen-Wei Liu (Taiwan) - National Taiwan Normal University

How to Leverage AI for Automatic Item Generation for Novel Constructs

» Deborah Laze (Canada) - York University, Xijuan Zhang (Canada) - York University

Adaptive SEM Under Calibration-Constrained Tuning: Extended Kalman Filtering of Time-Varying Latent Structural Coefficients

» Wesam Asaad (Switzerland) - Independent Researcher

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

» Hanna Choi (United States) - University of Maryland, Hong Jiao (United States) - University of Maryland

Structural Equation Model of Social Anxiety Amongst US Gamers

» Hannah Park (United States) - Independent Researcher, Dakota Cintron (United States) - Claremont Graduate University

Eye-Movements Methodology as Response Processes Validity Evidence

» Susana Sanz (Spain) - Universidad Pontificia Comillas, José David Moreno Pérez (Spain) - Universidad Autónoma de Madrid, Beatriz Rodríguez (Spain) - Universidad Autónoma de Madrid, Jukka Hyönä (Finland) - University of Turku

A Proposal on using Eye Movements in Educational Assessment

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

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

» Jungkyo Jung (Korea, Republic of) - Chungnam National University, Hyewon Chung (Korea, Republic of) - Chungnam National University

(Mis)Modeling Acquiescence Bias in Latent Mediation Models

» 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

» Menghe Xu (United States) - Pennsylvania State University, Wuzhiyin Sun (United States) - Pennsylvania State University, Tianying Sun (United States) - Pennsylvania State University, Pui-Wa Lei (United States) - Pennsylvania State University, James Clyde Diperna (United States) - Pennsylvania State University

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

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

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

» Ben Domingue (United States) - Stanford University, Savira Nadela (United States) - Stanford University, Hansol Lee (United States) - Stanford University, Nishka Jain (United States) - Stanford University, Ayaan Gupta (United States) - Stanford University, Lijin Zhang (United States) - Stanford University

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

» Ming-Hsueh Tsai (Taiwan) - National Academy for Educational Research

Continued from **Tuesday, 21 July**

Comparing Methods for Causal Mediation with Nominal Mediator
» Soyoung Kim (Korea, Republic of) - Chonnam National University, Sooyong Lee (United States) - WIDA at the University of Wisconsin-Madison

Bayesian Hierarchical Models for Multisite Dynamic Treatment Regimes
» Hangil (Noah) Hong (Japan) - University of Tsukuba, Kazuya Fujita (Japan) - University of Tsukuba

Construction of School-Based SEL Implementation Indicators: A Case Study
» Yu-Chuan Chen (Taiwan) - National Taiwan Normal University

Correcting for Bias in Cluster-Level Effects of Categorical Predictors
» Tsuyoshi Kato (Japan) - The University of Tokyo

Validity Index in Mean Comparisons: Cutoff Values and Confidence Intervals
» Muhan Yang (United States) - University of Notre Dame, Ke-Hai Yuan (United States) - University of Notre Dame

Comparing Permutation Methods for Evaluating Multidimensional Scaling Configuration Similarity
» Yonggi Kim (Korea, Republic of) - Chungbuk National University, Yuhwa Han (Korea, Republic of) - Chungbuk National University

Aggregated Inference for Structural Equation Modeling with Repeated Data Splitting
» You-Lin Chen (Taiwan) - National Chengchi University, Po-Hsien Huang (Taiwan) - National Chengchi University

Group Sequential Methods for Detecting Differential Item Functioning
» Shuhei Hanadate (Japan) - University of Tsukuba, Kazuhiro Yamaguchi (Japan) - University of Tsukuba

Alignment Method for Reference Indicator Selection in Invariance Testing
» ChiHyeon Noh (Korea, Republic of) - Pusan National University, Seung Bin Cho (Korea, Republic of) - Pusan National University

From Suspicion to Evidence: A Multi-Index Psychometric Approach to Detecting Exam Collusion
» Muhammad Naveed Khalid (United Kingdom) - Royal College of Emergency Medicine

Finite-Sample Evaluation of Computerized Adaptive Testing
» Hau-Hung Yang (Taiwan) - National Taiwan University, Yung-Fong Hsu (Taiwan) - National Taiwan University, Che Cheng (Taiwan) - National Taiwan University

Familiarity and Liking in Classroom Networks: A Multilayer Analysis of Rated Peer Relations
» Chih-Han Leng (Taiwan) - National Tsing Hua University, Ulf Böckenholt (United States) - Northwestern University

Acculturative Stress Change and Covariate DIF: a Bayesian MNLFA Approach
» Changhyeon Lee (Korea, Republic of) - Ajou Univiersity, Younyoung Choi (Korea, Republic of) - Ajou Univiersity

Applying Diagnostic Classification Models to an English Language Proficiency Assessment
» Kayla Teng (United States) - University of California, Los Angeles

Predicting Mathematics Achievement using Process Data Structured by Item Characteristics
» Yejin Woo (Korea, Republic of) - Ewha Womans University, 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
» Paul Nixon (South Africa) - Momentum Investments, Evan Gilbert (South Africa) - University of Stellenbosch

Continued from **Tuesday, 21 July**

Design Considerations in Computerized Adaptive Classification Testing (CACT): Decision Rules, Cut Score Structures, and Item Selection Methods

» Somi Kim (Korea, Republic of) - Sejong University, Kyung-Seok Min (Korea, Republic of) - Sejong University, Jincheol Lim (Korea, Republic of) - Sejong University

The Impact of DIF on Q-Matrix Refinement in CDM

» Hsiu-Yi Chao (Taiwan) - Soochow University

Clustering Under Regime Switching: A Monte Carlo Evaluation of Four Methods for Intensive Longitudinal Data

» Hairong Song (United States) - University of Oklahoma, Theo Meyer (United States) - University of Oklahoma

5:55pm **Poster Transition Break**

6:05pm **Reception, Poster Session II**

B132, The Commons

Relationships among Polytomous IRT Models: Focusing on the Reparameterized NRM

» Hyeon Park (Korea, Republic of) - Hallym University, Dong Gi Seo (Korea, Republic of) - Hallym University

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

» Ya-Hui Su (Taiwan) - National Chung Cheng University, Wei-Tzu Wu (Taiwan) - National Chung Cheng University

A Generalized Latent Class Model for Zero-Inflated Overdispersed Counts

» Jeonglae Seo (Korea, Republic of) - Kyungpook National University, Jungkyu Park (Korea, Republic of) - Kyungpook National University

SNMMs with Functional Covariates for Longitudinal Causal Inference

» Yuhao Wang (China) - The University of Osaka, Kentaro Fukushima (Japan) - The University of Osaka, Michio Yamamoto (Japan) - The University of Osaka

Asymptotic Robustness of DINA Under Q-Matrix Misspecification

» Yen-Ting Chen (Taiwan) - National Sun Yat-sen University, Ching-Lin Shih (Taiwan) - National Sun Yat-sen University

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

» Nilufer Goktas (United States) - University of Southern California, 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

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

Predicting Dropout: Should Time be Considered Continuous or Discrete?

» Hyungjun Park (Singapore) - National University of Singapore

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

» Yoko Tanaka (Japan) - Kio University

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

» Chi Kit Jacky Ng (Hong Kong) - The Hong Kong Polytechnic University, Congqing He (China) - Huzhou University

Continued from **Tuesday, 21 July**

Model-Based ORF Scores with Negative-Binomial Factor Model

» Paul Foster (United States) - Southern Methodist University, Xin Qiao (United States) - University of South Florida, Yusuf Kara (United States) - University of Miami, Akihito Kamata (United States) - Southern Methodist University

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

» Tonatiuh Xochihua Tlecuitl (United States) - University of California, Los Angeles, Yi Feng (United States) - University of California, Los Angeles, Craig K. Enders (United States) - University of California, Los Angeles

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

» Yukie Toyama (United States) - University of California, Berkeley, Mark Wilson (United States) - University of California, Berkeley

Semi-Amortized Variational Inference for Highdimensional Item Response Theory

» Zhe Li (United States) - University of Florida, Jinnie Shin (United States) - University of Florida

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

» Myoungsung Lee (Korea, Republic of) - Korea University, Seongmin Park (Korea, Republic of) - Korea University

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

» Jinhee Bae (Korea, Republic of) - Korea University, Taehun Lee (Korea, Republic of) - Korea University

Nested Cross-Validation for Model Selection in Structural Equation Modeling

» Yoonsik Chae (Korea, Republic of) - Korea University, Dexin Shi (United States) - University of South Carolina, Taehun Lee (Korea, Republic of) - Korea University

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

» Hsiuhsi Liu (Taiwan) - National Academy for Educational Research

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

» Yu Bao (United States) - James Madison University, Jin Liu (United States) - University of Texas at Arlington, Ying Jin (United States) - James Madison University

Combined Impact of Missing Data and Model Misspecification in GMM

» Youngin Lee (Korea, Republic of) - Seoul National University, Yejin Kim (Korea, Republic of) - Seoul National University, Suyeon Cha (Korea, Republic of) - Seoul National University, Hyun-Jeong Park (Korea, Republic of) - Seoul National University

Handling Missing not at Random in Cross-Lagged Panel Models

» Kazuki Hori (Japan) - Prefectural University of Kumamoto

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

» Tian Jiang (Hong Kong) - The Hong Kong Polytechnic University, Kristin Langohr (Hong Kong) - The Hong Kong Polytechnic University, Wai Ting Siok (Hong Kong) - The Hong Kong Polytechnic University

Hub-Aware EIG in Graph-Structured Bayesian MIRT Diagnostics

» Donghun Kang (Korea, Republic of) - Socra AI

Recovering Missing Observations in Intensive Longitudinal Data using FPCA

» Mihyeon Kang (Korea, Republic of) - Pusan National University, Seung Bin Cho (Korea, Republic of) - Pusan National University

Continued from **Tuesday, 21 July**

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

» HyeWon Kim (Korea, Republic of) - Korea University, 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

» Minsun Cho (Korea, Republic of) - Yonsei University, Hanjoe Kim (Korea, Republic of) - Yonsei University

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

» Fathima Jaffari (Saudi Arabia) - Education and Training Evaluation Commission, Khaleel Al-Harbi (Saudi Arabia) - Education and Training Evaluation Commission, Mohammed Alqabbaa (Saudi Arabia) - Education and Training Evaluation Commission

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

» Zonggui Li (United States) - University of Maryland School of Pharmacy, Sara Daniel (United States) - University of Maryland School of Pharmacy, Nneka Okeke (United States) - University of Maryland School of Pharmacy, Jennifer Contreras (United States) - University of Maryland School of Pharmacy, Ester Villalonga-Olives (United States) - University of Maryland School of Pharmacy

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

» Shan Yu Lin (Taiwan) - National Sun Yat-sen University, Bo-Hsien Hu (Taiwan) - National Sun Yat-sen University, Ching-Lin Shih (Taiwan) - National Sun Yat-sen University

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

» ChunXi Zhang (Taiwan) - National Taiwan Normal University, Po-Hsi Chen (Taiwan) - National Taiwan Normal University

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

» Sarah Pirani (United States) - University of North Carolina at Chapel Hill, 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

» Irina Tkachenko (Netherlands) - Tilburg University, Jesper Tijmstra (Netherlands) - Tilburg University, Maria Bolsinova (Netherlands) - Tilburg University, Jeroen Vermunt (Netherlands) - Tilburg University

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

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

Multilevel Mixture Causal Mediation Analysis: Theoretical Identification and Empirical Simulation

» Dohyeon Lee (Korea, Republic of) - Kyungpook National University, Jungkyu Park (Korea, Republic of) - Kyungpook National University

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

» Oreum Hyun (Korea, Republic of) - Yonsei University, Inhan Kang (Korea, Republic of) - Yonsei University

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

» Yuting Sun (United States) - University of North Florida, Shujin Zhong (United States) - University of North Florida

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

» Jiwon Kim (United States) - Northwestern University, Brian Keller (United States) - University of Missouri

Continued from **Tuesday, 21 July**

A Monte Carlo Evaluation of Causal Estimators under Functional Uncertainty

» Eunjeong Song (Korea, Republic of) - Korea University, 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

» Cody Campen (United States) - Pennsylvania State University, Timothy Brick (United States) - Pennsylvania State University, Ivan Jacob Agaloos Pesigan (United States) - Pennsylvania State University, Donna Coffman (United States) - University of South Carolina, Sunhye Bai (United States) - University of Oregon, Sy-Miin Chow (United States) - The Pennsylvania State University

An Exploration of r-Squared Effect Size Measures in Mediation

» Alexander Miles (United States) - University of South Carolina, Amanda Fairchild (United States) - University of South Carolina, Dexin Shi (United States) - University of South Carolina

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

» Zhi Jie Lee (United States) - The Ohio State University

Bayesian Monotone Inference for Restricted Latent Class Models

» Haotian Ju (United States) - University of Illinois Urbana-Champaign, Steven Culpepper (United States) - University of Illinois Urbana-Champaign, Yuexi Wang (United States) - University of Illinois Urbana-Champaign

Multiple Approaches for Exploratory Factor Analysis in Multilevel Construct

» Mirim Kim (Korea, Republic of) - Sungshin Women's University, Song Jung (Korea, Republic of) - Korea University

Application of Intersectional Routing in PISA 2022

» SooHyun Park (Korea, Republic of) - Ewha Womans University, Youn-Jeng Choi (Korea, Republic of) - Ewha Womans University, Kyung (Chris) T Han (United States) - Graduate Management Admission Council ®

Longitudinal Measurement Invariance in a Likert Burnout Scale

» Soonbo Kwon (Korea, Republic of) - Korea National University of Education, South Korea

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

» Saeyan Yun (United States) - Florida State University

Undergraduate Dropout Prediction: A Machine Learning Approach in NTU

» Yi Hsuan Tseng (Taiwan) - National Taiwan University, Kaiping Yao (Taiwan) - National Taiwan University

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

» Kaiping Yao (Taiwan) - National Taiwan University, Yi Hsuan Tseng (Taiwan) - National Taiwan University

Data Generation Mechanisms for Modeling Explicit Selection and Sample Selection Bias

» Laura Jamison (United States) - Naval Research Laboratory, Joseph Coyne (United States) - Naval Research Laboratory, Ciara Sibley (United States) - Naval Research Laboratory, Cyrus Foroughi (United States) - Naval Research Laboratory

Comparing Response Time Methods Within Biclustering Framework in Detecting Preknowledge

» Shih Peng Chuang (United States) - University of Illinois Urbana-Champaign, Justin L. Kern (United States) - University of Illinois Urbana-Champaign

AIG with Schema-Guided IPEM in Korean Essay Assessment

» DongHyun Ko (Korea, Republic of) - Yonsei University, Guemin Lee (Korea, Republic of) - Yonsei University

Continued from **Tuesday, 21 July**

Multidimensional Mindfulness Scale for Upper-Elementary Students in South Korea

» Soyeon Shin (Korea, Republic of) - Yonsei University

Job Adjustment Mediation in Childcare Aptitude: A Longitudinal Study

» Jieye Lee (Korea, Republic of) - Ajou University, Seonju Lee (Korea, Republic of) - Ajou University, Younyoung Choi (Korea, Republic of) - Ajou University

School Engagement and Jingle and Jangle Fallacies: Organizing Scientific Findings

» Catalina Miranda Riquelme (Chile) - Pontificia Universidad Católica de Chile; KU Leuven

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

» Jung Yeon Park (United States) - George Mason University, Hyejin Yoon (United States) - George Mason University, Dai Gu (United States) - George Mason University

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

» Bomin Chung (Korea, Republic of) - Inha University, Hwanggyu Lim (Korea, Republic of) - Inha University, Yeonu Kim (Korea, Republic of) - Inha University

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

» Jamie Trost (United States) - Brown University

Accuracy of Cutpoint Selection in Rasch Tree: A Simulation Study

» Sujin Baeg (Korea, Republic of) - Seoul National University, Yejin Kim (Korea, Republic of) - Seoul National University, Hyun-Jeong Park (Korea, Republic of) - Seoul National University

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

» Sayaka Arai (Japan) - National Center for University Entrance Examinations, Kei Ito (Japan) - National Center for University Entrance Examinations

On Neural Estimation of the Two-Parameter Logistic Model

» Yunbo Yang (United States) - The University of Chicago, Yanyan Sheng (United States) - The University of Chicago

Factor Structure of the Parentification Inventory

» Jun Kyung Kim (United States) - Baylor University, Sara Tomek (United States) - Baylor University, Lisa Hooper (United States) - University of Northern Iowa

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

» Yoonchae Jeong (Korea, Republic of) - Chungnam National University, Hyewon Chung (Korea, Republic of) - Chungnam National University

Bayesian Network Prediction of Functional Status in Older Adults

» Seyoung Lim (Korea, Republic of) - Ajou University, Myeongbin Kim (Korea, Republic of) - Ajou University, Younyoung Choi (Korea, Republic of) - Ajou University

Adolescent Cooperation Trajectories: Concurrent and Lagged Effects

» Suin Noh (Korea, Republic of) - Chungnam National University, Hyewon Chung (Korea, Republic of) - Chungnam National University

Before Work Begins: Developing and Validating the Work Rituals Scale

» Tzu-Ting Lin (Taiwan) - National Chengchi University

Modeling Dyadic Interdependence and Conditional Transmission Within Family Systems

» Minseo Lee (Korea, Republic of) - Sungshin Women's University, Mirim Kim (Korea, Republic of) - Sungshin Women's University

Continued from **Tuesday, 21 July**

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

» Jeongin Cha (Korea, Republic of) - Gyeongsang National University

Comparison of Overall and Level-Specific Fit in MSEM

» Eunseo Pak (Korea, Republic of) - Korea University, Junseo Kim (Korea, Republic of) - Korea University, Haerim Yu (Korea, Republic of) - Korea University, Suemin Cho (Korea, Republic of) - Korea University, Giyun Kim (Korea, Republic of) - Korea University

Estimating Item Difficulty with Large Language Models

» Jiahui Zhang (China) - Beijing Normal University

Hierarchical Models of Speed and Accuracy as Construct Validity Evidence

» Walton Ferguson (United States) - University of Notre Dame, Patrick Kirkland (United States) - University of Notre Dame, Alison Cheng (United States) - University of Notre Dame

A Geometric Evaluation of Construct Alignment in Automated Essay Scoring

» JeeHun Sung (Korea, Republic of) - MooWee-Lab

Validating Test Blueprints in Operational IRT

» Beltran Pantoja (United States) - University of Georgia, Ashley Heady (United States) - University of Georgia, Matthew Madison (United States) - University of Georgia

A Unified Theory of Validity for AI-Mediated Assessment

» Tanesia Beverly (United States) - Independent Researcher, Xiaoran Li (United States) - Independent Researcher

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

» Xiaoyue Xiong (United States) - The Pennsylvania State University, Charles Driver (Switzerland) - University of Zurich, Zachary Fisher (United States) - University of North Carolina at Chapel Hill, Stephanie Trea Lanza (United States) - Pennsylvania State University, Sy-Miin Chow (United States) - The Pennsylvania State University

Latent Variables in Causal Inference

» Nanxi Dong (United States) - University of Maryland, College Park, Yang Liu (United States) - University of Maryland, Ji Seung Yang (United States) - University of Maryland

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

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

Bias Reduction in Dynamic Factor Models for Short Time Series

» Yuanpeng Hu (United States) - University of Notre Dame

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

» Miguel Bosch Francisco (Spain) - Universidad Autónoma de Madrid

Protective Family Functioning in Intergenerational Depression Networks

» Min Liu (United States) - Baylor University, Sara Tomek (United States) - Baylor University, Mack Burke (United States) - Baylor University

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

» Suyoung Kim (Korea, Republic of) - Gachon University

Frequently Asked Questions About Label Switching

» Yanjia Geng (United States) - University of California, Merced, Meng Qiu (United States) - University of California, Merced

Continued from **Tuesday, 21 July**

An Application of MFRM to Rater Effects of BERT-Based AES
» Junsik Sim (Korea, Republic of) - Yonsei University, Guemin Lee (Korea, Republic of) - Yonsei University

From Evaluation to Ethical Accountability: Digital School Performance Evaluation and Teacher Well-Being in Saudi Arabia
» Azzah Alsubaie (Saudi Arabia) - ETEC

Wednesday, 22 July

9am **Invited Speaker**
Auditorium, Baekyang Hall
Chaired by: Jee-Seon Kim (United States)

Leveraging Regression Discontinuity Analysis with Latent Variable Models
» Ji Seung Yang (United States) - University of Maryland

9am **Invited Speaker**
Grand Ballroom, The Commons
Chaired by: Jingchen Liu (United States)

New Statistical Frontiers in Cognitive Diagnostic Models: Deep Generative Structures, General Responses, and Tensor Unfolding
» Yuqi Gu (United States) - Columbia University

9:45am **Refreshment Break**
B132, The Commons

10am **Lifetime Career Award**
Auditorium, Baekyang Hall
Chaired by: Chun Wang (United States)

From Asymptotic Posterior Normality to Computerized Adaptive Testing and Beyond: Innovations in Adaptive Testing and Personalized Learning Pathways
» Hua Hua Chang (United States) - Purdue University

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

12:30pm **AI and IRT**
Auditorium, Baekyang Hall
Chaired by: YoungKoung Kim (United States)

12:30pm **Uncovering Human-Large Language Model Rater Effects in Writing Assessment**
» Cheng Tang (United States) - University of Georgia, Jing Li (United States) - University of Georgia, Jiawei Xiong (United States) - University of Georgia, George Engelhard (United States) - University of Georgia

12:45pm **Psychometric Models and the Evaluation of Generative AI Performance**
» Ashley Heady (United States) - University of Georgia, Matthew Madison (United States) - University of Georgia, Savannah Thais (United States) - Hunter College CUNY

1pm **Assessing Fairness and Measurement Invariance in AI-Based Automated Scoring**
» Ummugul Bezirhan (United States) - TIMSS and PIRLS International Study Center at Boston College, Ji Yoon Jung (United States) - TIMSS and PIRLS International Study Center at Boston College, Matthias von Davier (United States) - TIMSS and PIRLS International Study Center at Boston College

1:15pm **Federated Item Response Models: A Gradient-Driven Privacy-Preserving Framework for Distributed Psychometric Estimation**
» Nanyu Luo (Canada) - University of Toronto, Feng Ji (Canada) - University of Toronto

Continued from **Wednesday, 22 July**

1:30pm **Prediction of Mathematics Item Difficulty using Two-Step Ensemble Model**
» YoungKoung Kim (United States) - College Board, Kinny Mu (United States) - College Board

12:30pm **Advances in Psychometrics and Measurement**
B125, Ballroom, The Commons
Chaired by: Daniel Bolt (United States)

12:30pm **Proficiency-Related Slipping and Guessing**
» Daniel Bolt (United States) - University of Wisconsin - Madison, Lionel Meng (United States) - University of Wisconsin - Madison

12:45pm **A Reliability-Corrected Adjusted R-Squared for Latent Regression**
» Paul Jewsbury (United States) - Duolingo, Inc., Alexander Tsigler (United States) - Duolingo, Inc., J.R. Lockwood (United States) - Duolingo, Inc.

1pm **Accounting for Skewness in Psychometrics: The Bayesian Skew-Normal IRT Family**
» Jorge Bazán (Chile) - Pontificia Universidad Católica de Chile

1:15pm **Two Watches: Measurement Error Models for Discrepant Test Score Trends**
» Andrew Ho (United States) - Harvard University

1:30pm **Measurement Model Evaluation: Beyond Statistical Models**
» Mark Wilson (United States) - University of California, Berkeley, Yukie Toyama (United States) - University of California, Berkeley

12:30pm **Process Data**
B126, Ballroom, The Commons
Chaired by: Susanne Frick (Germany)

12:30pm **Cross-Classified Hidden Markov Models for Analyzing Response Strategies**
» Susanne Frick (Germany) - TU Dortmund University

12:45pm **A Joint Model for Responses and Response Times with Category-Specific Heterogeneity**
» Xinyu Zhang (China) - Northeast Normal University, Xiangbin Meng (China) - Northeast Normal University

1pm **Evaluating the Latent Space Modeling Approach for Aggregated Process Data**
» Xin Qiao (United States) - University of South Florida, Tracy Sweet (United States) - University of Maryland

1:15pm **When Conditioning Causes Bias: Endogeneity in Time-Augmented Item Response Models**
» Weicong Lyu (Macao) - University of Macau, Mingya Huang (United States) - The University of Chicago

1:30pm **Item Response Modeling for Online Learning Engagement with PCM Analysis**
» Pin Hui Jiang (Taiwan) - National Taiwan Normal University, Po-Hsi Chen (Taiwan) - National Taiwan Normal University

12:30pm **Cognitive Diagnostic Models**
B145, The Commons
Chaired by: Jia Liu (China)

12:30pm **Scalable Text-Embedding-Informed Cognitive Diagnosis of Large Language Models**
» Jia Liu (United States) - Columbia University, Zhiyu Xu (United States) - Columbia University, Yuqi Gu (United States) - Columbia University

12:45pm **TRACE-Q: A Multi-Agent LLM Pipeline for Responsible Q-Matrix Construction**
» Weixuan Xiao (United States) - Teachers College, Columbia University, Chia-Yi Chiu (United States) - Teachers College, Columbia University, Charles Lang (United States) - Teachers College, Columbia University

Continued from **Wednesday, 22 July**

1pm **Aligning LLM-Generated Responses with Real Examinees: A Cognitive Diagnostic Profiling Approach**
» Wenjie Zhou (United States) - University of California, Berkeley, Yunting Liu (United States) - University of California, Berkeley, 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**
» Hyunjoo Kim (United States) - University of Illinois Urbana-Champaign, 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**
» Yiyao Yang (United States) - Columbia University

12:30pm **Bayesian**
B146, The Commons
Chaired by: Inhan Kang (Korea, Republic of)

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

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

1pm **Ultimate Pólya Gamma Samplers for Rank-2PL IRT models**
» 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**
» Inhan Kang (Korea, Republic of) - Yonsei University

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

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

12:30pm **The Psychometrics of Prejudice and Stereotypes: Evaluating the Measurement**
» Anna Kubelková (Czechia) - Institute of Psychology, Czech Academy of Sciences, David Lacko (Czechia) - Institute of Psychology, Czech Academy of Sciences, Simona Oľhová (Czechia) - Institute of Psychology, Czech Academy of Sciences, Adam Klocek (Czechia) - Institute of Psychology, Czech Academy of Sciences, 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**
» Nam Keol Kim (Korea, Republic of) - Yonsei University, Ji Hoon Ryoo (Korea, Republic of) - Yonsei University

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

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

Continued from **Wednesday, 22 July**

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

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

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

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

1pm **Comparison of Three Different Scale Types on Marketing Research**
» Anni Yeh (Taiwan) - National Taiwan Normal University, Yao-Ting Sung (Taiwan) - National Taiwan Normal University, Po-Hsi Chen (Taiwan) - National Taiwan Normal University, Yung-Cheng Shen (Taiwan) - National Taiwan Normal University, Yeh-Tai Chou (Taiwan) - National Taiwan Normal University

1:15pm **Evaluating Profile Interpretability Under Continuous Latent Structure: A Confirmatory Factor Mixture Approach**
» Siyuan Chen (United States) - University of California, Santa Barbara, Karen Nylund-Gibson (United States) - University of California, Santa Barbara

1:30pm **Optimising Population-Structure Models in International Large-Scale Assessments**
» Han Hui Por (Australia) - Australian Council for Educational Research, Paul Jewsbury (United States) - Duolingo, Inc.

12:30pm **Network Psychometrics**
Room 102, School of Business
Chaired by: Kai Jannik Nehler (Germany)

12:30pm **Retest Effects in Dynamic Network Models**
» Hyungeun Oh (United States) - The Pennsylvania State University, Sy-Miin Chow (United States) - The Pennsylvania State University, Michael Hunter (United States) - The Pennsylvania State University, Zita Oravecz (United States) - The Pennsylvania State University

12:45pm **A Comparison of Estimation Methods for Ordinal Data in Psychometric Networks**
» Eunsoo Lee (Korea, Republic of) - Korea Employment Information Service, Sehee Hong (Korea, Republic of) - Korea University

1pm **Dimensionality Recovery Across Structural Regimes: From Stochastic Block Models to Gaussian Graphical Representations**
» Chi-Yun Deng (Taiwan) - National Chengchi University, Hsiu-Ting Yu (Taiwan) - National Chengchi University

1:15pm **A Regularized Maximum Likelihood Estimation of High-Dimensional Network Models with Dynamic Latent Variables in the Context of Intensive Longitudinal Data**
» Vivato Andriamiarana (Germany) - Tübingen University, Kevin Kistermann (Germany) - University of Tübingen, Pascal Kilian (Germany) - University of Tübingen, Augustin Kelava (Germany) - Tübingen University

1:30pm **Why Ordinal Data Can Create Spurious Edges in Psychological Networks**
» Kai Jannik Nehler (Germany) - Goethe University, Frankfurt and HMU Health and Medical University Erfurt, Julien Patrick Irmer (Germany) - University of Freiburg, Freiburg, Martin Schultze (Germany) - Goethe University, Frankfurt

12:30pm **Causal Inference**
Room 103, School of Business
Chaired by: Lizbeth Burgos-Ochoa (Netherlands)

Continued from **Wednesday, 22 July**

12:30pm **Detecting Hidden Confounders in Linear Non-Gaussian Models: A Comparison of Eight Tests of Independence**
» Guyin Zhang (United States) - University of South Carolina, Dexin Shi (United States) - University of South Carolina, Amanda Fairchild (United States) - University of South Carolina

12:45pm **Causal Mediation Analysis under Post-Treatment Confounding with Natural Effect Models**
» Lizbeth Burgos-Ochoa (Netherlands) - Tilburg University

1pm **Two-Stage Bayesian and Frequentist Methods for Synthesizing Findings About the Indirect Effect in Single Case Mediation Analysis**
» Milica Miocevic (Canada) - McGill University, Mariola Moeyaert (United States) - University at Albany, State University of New York, Sofia Maiz (Canada) - McGill University, Matthew Valente (United States) - University of South Florida

1:15pm **Conditional Instrumental Variable Estimation in Functional Linear Structural Equation Models**
» Michio Yamamoto (Japan) - The University of Osaka

1:30pm **An Exploratory Bayesian Mediation Model to Select Mediation Effects**
» Dingjing Shi (United States) - Georgia Institute of Technology, Dexin Shi (United States) - University of South Carolina, Amanda Fairchild (United States) - University of South Carolina

12:30pm Novel Applications

S504, 5th Floor, Baekyang Hall

Chaired by: Jaroslav Hlinka (Czechia)

12:30pm **Assessing Data Quality in Standard Setting Through Detection of Nonadditivity**
» Cary Lin (United States) - National Council of State Boards of Nursing, Jinming Zhang (United States) - University of Illinois at Urbana-Champaign

12:45pm **Time Centering and Unique Effect Partitioning in Parallel Processing Model**
» Xiaoyu Yang (United States) - Texas A&M University, Oi-Man Kwok (United States) - Texas A&M University, Timothy Elliott (United States) - Texas A&M University

1pm **Time-Varying Mediation Effects for Time-Varying Treatments with Covariates**
» Donna Coffman (United States) - University of South Carolina

1:15pm **On Seeking the Soul in Brain Connectivity Graphs: A Methodological Perspective on Personality Neuroscience**
» Jaroslav Hlinka (Czechia) - Institute of Computer Science of the Czech Academy of Sciences

1:30pm **Improving Change Measurement in Longitudinal Studies: A Comparison of LGM and LIRT-Second-Order Latent Growth Models**
» Mei Ling Ong (United States) - University of Georgia, Seock-Ho Kim (United States) - University of Georgia, Steven Beach (United States) - University of Georgia

1:45pm **Walking Break**

2pm Symposium: Causal Models, Artificial Intelligence, and Machine Learning

Auditorium, Baekyang Hall

Chaired by: Peter Steiner (United States)

2pm **Causal Pathways of Bias in Educational Algorithmic Decision-Making: Identification and Mitigation using DAGs**
» Soo Jung La (Korea, Republic of) - Seoul National University, Yongnam Kim (Korea, Republic of) - Seoul National University

2:15pm **Integrating Double Selection into Doubly Robust Estimators for Causal Inference**
» Muwon Kwon (United States) - University of Maryland, College Park, Peter Steiner (United States) - University of Maryland, College Park

Continued from **Wednesday, 22 July**

2:30pm **Augmenting Structured Survey Responses with Textual Data in Causal Research**
» Jee-Seon Kim (United States) - University of Wisconsin - Madison, Lingbo Tong (United States) - University of Wisconsin - Madison, Madison Chambers (United States) - Michigan State University

2:45pm **From Noisy Estimates to Reliable Decisions: Shrinking Individual Treatment Effects for Targeted Interventions**
» Graham Buhrman (United States) - University of Wisconsin - Madison, Jee-Seon Kim (United States) - University of Wisconsin - Madison

2pm **Symposium: Intersectionality in Psychometrics**
B125, Ballroom, The Commons
Chaired by: Irini Moustaki (United Kingdom)

2pm **Quantitative Methods for Detecting Intersectional Differential Item Functioning**
» Chun Wang (United States) - University of Washington

2:19pm **Intersectional Construct Validity: Modeling Structure and Invariance**
» Dakota Cintron (United States) - Claremont Graduate University

2:38pm **Beyond Demographic Interactions: Sociological Insights on Socio-Structural Intersectionality**
» Ji Hye Kim (Korea, Republic of) - Sogang University

2:57pm **Discussant for Symposium on Intersectionality in Psychometrics**
» Melanie Wall (United States) - Columbia University

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

2pm **Constructing Interpretable Scaling Models in Large-Scale Assessments**
» Motonori Oka (United Kingdom) - London School of Economics, Yunxiao Chen (United Kingdom) - London School of Economics, 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**
» Chengyu Cui (United States) - University of Michigan, Ann Arbor, Taoyi Chen (United States) - University of Michigan, Ann Arbor, Chun Wang (United States) - University of Washington, Gongjun Xu (United States) - University of Michigan, Ann Arbor

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

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

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

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

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

Continued from **Wednesday, 22 July**

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

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

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

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

2pm Computerized Adaptive Tests

B146, The Commons

Chaired by: Hyeon-Ah Kang (United States)

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

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

2:30pm **Change Pattern Detection in Adaptive Measure of Change**
» Raj Wahlquist (United States) - University of Minnesota - Twin Cities, David Weiss (United States) - University of Minnesota - Twin Cities

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

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

2pm Patient-Reported Outcomes

B147, The Commons

Chaired by: Emily Ho (United States)

2pm **Leveraging Patient-Reported Outcomes to Explore Response and Cross-Toxicity Trade-Offs in Head and Neck Cancer Treated with Radiotherapy**
» Daniel Glazar (United States) - Moffitt Cancer Center & Research Institute, Ryan Werthmann (United States) - Moffitt Cancer Center & Research Institute, 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**
» Minji Lee (United States) - Mayo Clinic

2:30pm **Measuring Construct Severity in the Presence of Filter Items**
» 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**
» Paul Petzold (Germany) - Charité - Universitätsmedizin Berlin, Brittany Lapin (United States) - Cleveland Clinic Research, Felix Fischer (Germany) - Charité - Universitätsmedizin Berlin

Continued from **Wednesday, 22 July**

3pm **Norming of the NIH Toolbox Cognition Battery Version 3**
» Emily Ho (United States) - Northwestern University, Y. Catherine Han (United States) - Northwestern University, Erica LaForte (United States) - Northwestern University, Aaron J. Kaat (United States) - Northwestern University, Elizabeth M. Dworak (United States) - Northwestern University, Berivan Ece (United States) - Northwestern University, Lihua Yao (United States) - Northwestern University, James Olsen (United States) - Northwestern University, Richard Gershon (United States) - Northwestern University

2pm Machine Learning
Room 101, School of Business
Chaired by: HyeSun Lee (United States)

2pm **Disparity Impact Remover using Balanced Error Rate in DIF Contexts**
» HyeSun Lee (United States) - California State University Channel Islands, Weldon Smith (United States) - California State University Channel Islands

2:15pm **High-Dimensional Multilevel Variable Selection: Post-Selection Inference Versus glmmLasso**
» Sungmin Lee (Korea, Republic of) - Korea National University of Education, Jin Eun Yoo (Korea, Republic of) - Korea National University of Education

2:30pm **A Simulation Study of Machine Learning Approaches to Network Community Detection**
» Jingyang Li (United States) - University of Georgia, Zhenqiu Lu (United States) - University of Georgia

2:45pm **Principal Covariate Regression with Nuclear Norm Penalty**
» Kaiwen Liu (Netherlands) - Leiden University, Wouter Weeda (Netherlands) - Leiden University, Mark de Rooij (Netherlands) - Leiden University

3pm **A Unified Regularized Estimation Framework for Item Response Theory Models**
» Pengyuan Yang (Netherlands) - Tilburg University, Wilco Emons (Netherlands) - Tilburg University, Felix Clouth (Netherlands) - Tilburg University, Katrijn Van Deun (Netherlands) - Tilburg University

2pm Estimation and Computational Methods
Room 102, School of Business
Chaired by: Sean Joo (United States)

2pm **A Conditional Exact Inference Method for Detecting DIF under Small Sample Sizes**
» Xiang Liu (United States) - ETS, Mo Zhang (United States) - ETS

2:15pm **Validity Evidence for the Joint Thurstonian Models**
» Che Cheng (Taiwan) - National Taiwan University, Hau-Hung Yang (Taiwan) - National Taiwan University, Yung-Fong Hsu (Taiwan) - National Taiwan University, Keng-Ling Lay (Taiwan) - National Taiwan University

2:30pm **Efficient Estimation of Trait Scores in Thurstonian IRT Models using Optimal Experimental Designs**
» Heinz Holling (Germany) - University of Münster

2:45pm **Comparing IRT Scoring Approaches for Graded Multidimensional Forced-Choice Measures**
» Lavanya Kumar (United States) - Graduate Management Admission Council, Sean Joo (United States) - University of Kansas, Stephen Stark (United States) - University of South Florida

3pm **Analysis of Local Influence and Person-Fit for Item Response Models**
» Ryan Lerch (United States) - University of California, Los Angeles

2pm Computation and Prediction
Room 103, School of Business
Chaired by: Xin Qiao (United States)

Continued from **Wednesday, 22 July**

2pm **A Machine Learning Framework for Exploratory Bifactor Dimensionality Assessment**
» Ahmed Kamala (United Kingdom) - The University of Manchester, Todd Hartman (United Kingdom) - The University of Manchester

2:15pm **Beyond Normality: Can We Identify True Latent Structure in IRT?**
» Xin Qiao (United States) - University of South Florida, Cornelis Potgieter (United States) - Texas Christian University

2:30pm **Relative Importance Analysis of Categorical Predictors**
» Xin Gu (China) - East China Normal University

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

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

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

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

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

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

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

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

3:15pm **Refreshment Break**
B132, The Commons

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

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

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

Continued from **Wednesday, 22 July**

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

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

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

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

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

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

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

4:15pm **Rethinking Loss Functions for Psychometric Property Prediction: An ICC-Centered Approach**
» Ikkyu Choi (United States) - ETS, Michael Fauss (United States) - ETS

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

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

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

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

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

4pm **Composite Likelihood-Based Transition Diagnostic Classification Model for Intensive Repeated Measurements**
» Minho Lee (United States) - University of Notre Dame, Yon Soo Suh (United States) - NWEA

4:15pm **Evaluating Measurement Invariance with Multiple Covariates in Cognitive Diagnosis Modeling**
» Pablo Nájera (Spain) - Universidad Pontificia Comillas, Miguel A. Sorrel (Spain) - Universidad Autónoma de Madrid, Philipp Sterner (Germany) - Ludwig-Maximilian-University München, David Goretzko (Germany) - Goethe University, Frankfurt

Continued from **Wednesday, 22 July**

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

3:30pm Multilevel

B146, The Commons
Chaired by: Ehri Ryu (United States)

3:30pm **Level-Specific and Source-Specific R-Squared Measures in Cross-Classified Multilevel Models**
» Yingchi Guo (Canada) - University of British Columbia, Jason Rights (Canada) - University of British Columbia

3:45pm **R-Squared Difference in Multilevel Models**
» Ehri Ryu (United States) - Boston College

4pm **A Multilevel Modeling Approach to Network Diffusion in Alzheimer's Disease**
» Hyeonseong Lee (United States) - University of Maryland College Park, Tracy Sweet (United States) - University of Maryland College Park, Selena Wang (United States) - Indiana University

4:15pm **Robustness of Multilevel Models to Violations of Multivariate Normality**
» Haoyang Chen (Canada) - University of British Columbia, Edward Kroc (Canada) - University of British Columbia

4:30pm **Context-Dependent Scoring in EdTech: A Mixed-Effects Approach to Hint Penalty Calibration**
» Dmitry Abbakumov (Serbia) - Foxford

3:30pm Equating

B147, The Commons
Chaired by: Weldon Smith (United States)

3:30pm **Addressing Covariate Measurement Differences in Generalized Kernel Equating under the NEC Design**
» Michaela Vařejková (Czechia) - Institute of Computer Science of the Czech Academy of Sciences, Charles University, Patrícia Martinková (Czechia) - Institute of Computer Science of the Czech Academy of Sciences, Eva Potužníková (Czechia) - Charles University

3:45pm **Stability of Scale Transformations in Multi-Group IRT Calibration**
» Dogyeong Kim (Korea, Republic of) - Hallym University, Dong Gi Seo (Korea, Republic of) - Hallym University

4pm **Divergence-Based Estimation of Item Response Theory Equating Coefficients**
» Satoko Imaizumi (Japan) - The University of Tokyo, Kensuke Okada (Japan) - The University of Tokyo

4:15pm **Linking Dichotomous and Continuous: Item Characteristic and Test Characteristic Curves**
» Weldon Smith (United States) - California State University Channel Islands, 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.**
» Neil Rice (United Kingdom) - Kaplan Assessments

3:30pm Artificial Intelligence and Machine Learning

Room 101, School of Business
Chaired by: Jungmin Lee (Korea, Republic of)

3:30pm **Deep Learning-Based Early Detection of Stress-Induced Physical Activity Decline**
» Young Won Cho (United States) - The Pennsylvania State University, Sy-Miin Chow (United States) - The Pennsylvania State University, 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**
» Xuelan Qiu (Macao) - City University of Macau, Jin Yuan (China) - Lanzhou University, Jinran Wu (Australia) - University of Queensland, Weide Li (China) - Lanzhou University, Jiesi Guo (Australia) - Australian Catholic University, Frederick K. S. Leung (China) - Beijing Normal University

4pm **Explainable AI Requires Explainable Data First**
» Jinyoung Kim (Korea, Republic of) - Korea University, Taehun Lee (Korea, Republic of) - Korea University

4:15pm **Identifying High-Risk Youth NEET Trajectories in Korea: Time-Aware Modeling with Linked Administrative Data**
» Jungmin Lee (Korea, Republic of) - Korea Labor Institute

4:30pm **Interpretable Affect Forecasting using Personal Embedding-Based Convolutional Attention Neural Network**
» Jyotirmoy Nirupam Das (United States) - The Pennsylvania State University, Sy-Miin Chow (United States) - The Pennsylvania State University, Young Won Cho (United States) - The Pennsylvania State University, Soundar Kumara (United States) - The Pennsylvania State University

3:30pm Latent Class Models

Room 102, School of Business

Chaired by: Felix Clouth (Netherlands)

3:30pm **Stepwise Estimation of Deep Latent Class Models with Covariates**
» Felix Clouth (Netherlands) - Tilburg University

3:45pm **A Mixture Model for Careless Responding in Repeated Single-Item Measures**
» Alicia Gernand (Germany) - RPTU University Kaiserslautern-Landau, Tanja Lischetzke (Germany) - RPTU University Kaiserslautern-Landau, Esther Ulitzsch (Norway) - University of Oslo

4pm **Multilevel Joint Latent Class Analysis of Multi-Informant Mental Health Patterns**
» Depeng Jiang (Canada) - University of Manitoba, Mst Farzana Akter (Canada) - University of Manitoba

4:15pm **Identification of Careless Responses and their Patterns in Low-Stake Assessment**
» Meereem Kim (Korea, Republic of) - Chonnam National University, Yoonsun Jang (Korea, Republic of) - Daegu National University of Education

4:30pm **Nonparametric Classification for Ordinal Items with Heterogeneous Attribute Interactions**
» Joemari Olea (United States) - University of Texas at Austin, Hyeon-Ah Kang (United States) - University of Texas at Austin

3:30pm Multilevel

Room 103, School of Business

Chaired by: Francesco Scalone (Italy)

3:30pm **Dynamic Modeling of Cognitive Functioning in Later Life: A DSEM Analysis of Social, Economic, and Health Determinants Using SHARE**
» Francesco Scalone (Italy) - University of Bologna

3:45pm **Position Dependent Item Parameters in Randomized Test Designs**
» Nivedita Bhaktha (India) - Indian Institute of Technology Kanpur, Sourav Majumdar (India) - Indian Institute of Technology Kanpur

4pm **Single-Item Reliability for Intensive Longitudinal Data**
» Tzu-Yao Lin (Belgium) - KU Leuven, Francis Tuerlinckx (Belgium) - KU Leuven, Sophie Vanbelle (Netherlands) - Maastricht University

4:15pm **EIRM with glmmLasso for Large-Scale Assessment in Education**
» Hyeong Gwan Kim (Korea, Republic of) - Korea National University of Education, 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**
» Himilcon Inciarte (United States) - University of California, Berkeley, Sophia Rabe-Hesketh (United States) - University of California, Berkeley, Qing Cai (United States) - University of California, Berkeley

3:30pm **Measurement Invariance**
S504, 5th Floor, Baekyang Hall
Chaired by: Yu-Wei Chang (Taiwan)

3:30pm **Itemwise and Global Equivalence Testing for DIF in Rasch Models**
» David Kronthaler (Switzerland) - University of Zurich, 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**
» Yu-Wei Chang (Taiwan) - National Chengchi University

4pm **The Effects of Regularization and Algorithm Settings to EGA in DIF Assessment**
» Chi-Chen Chen (Taiwan) - National Academy for Educational Research, Ching-Lin Shih (Taiwan) - National Sun Yat-sen University, Kuan-Yu Jin (Hong Kong) - Hong Kong Examinations and Assessment Authority

4:15pm **The Impact of Slow Non-Effortful Responding on Differential Item Functioning**
» Wei-Chia Su (Taiwan) - National Sun Yat-sen University

4:30pm **Operational Definitions as Measurement Models**
» David Woollard (United States) - Standard AI, Igor Moiseev (United States) - Standard AI

4:45pm **Walking Break**

5pm **Symposium: AI and Machine Learning**
Auditorium, Baekyang Hall
Chaired by: Qiwei He (United States)

5pm **Advancing Sequential Process Data Clustering with Image Processing in Interactive Assessments**
» Qiwei He (United States) - Georgetown University, Binhui Chen (United States) - Georgetown University

5:15pm **Model Fit and Parameter Uncertainty in Variational Autoencoder Based Latent Variable Models**
» Karel Veldkamp (Netherlands) - University of Amsterdam

5:30pm **Agentic Automated Item Generation: A Framework and Evaluation**
» Rudolf Debelak (Switzerland) - University of Zurich / EPFL, Rasmus Jensen (Switzerland) - ETH Zurich / IBE

5:45pm **An AI Chatbot for Sleep Promotion**
» Jingchen Liu (United States) - Columbia University, Xiaoyue Liu (United States) - New York University

6pm **Mind the Effort Gap: Identifying Measurement Bias with Item Differential Functioning**
» Yuxi Shen (United States) - Georgetown University, Qiwei He (United States) - Georgetown University

5pm **Symposium: AI-Driven Prediction of Item Parameters in Large-Scale Diagnostic Assessment**
B125, Ballroom, The Commons
Chaired by: Jae-Chun Ban (Korea, Republic of)

5pm **Predicting Item Parameter Categories Using Content and GenAI Linguistic Features**
» Hyung Jin Kim (United States) - National Council of State Boards of Nursing, Young-Chan Lee (Korea, Republic of) - Chungnam National University

Continued from **Wednesday, 22 July**

5:15pm **Item Difficulty Prediction Using LLM-Derived Item Text Features**
» Seungwon Shin (United States) - The University of Iowa, Mikyung Lee (Korea, Republic of) - Chungnam National University

5:30pm **IRT Scoring with Machine-Learning-Predicted Item Parameters: An Iterative Parameter Updating Approach**
» Won-Chan Lee (United States) - The University of Iowa, Stella Kim (United States) - University of North Carolina at Charlotte, Yeonju Lee (United States) - The University of Iowa, 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**
» Jae-Chun Ban (Korea, Republic of) - Chungnam National University, Sun Kim (Korea, Republic of) - Chungnam National University, Eunbin Kim (Korea, Republic of) - Chungnam National University, 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**
» Yeonju Lee (United States) - The University of Iowa, Juyoung Jung (United States) - The University of Iowa

5pm **Symposium: Advances in Bayesian SEM**
B126, Ballroom, The Commons
Chaired by: Xinya Liang (United States)

5pm **Frequentist and Bayesian Fit when Assumption in LBCM is Violated**
» Chunhua Cao (United States) - University of Alabama, Christopher Ocheni (United States) - University of Alabama, 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**
» Gregg Campbell (United States) - Florida State University, Yanyun Yang (United States) - Florida State University

5:30pm **Bayesian Nonparametric Approach to Nonlinear Multiple Mediation Analysis**
» Siyi Wang (China) - Sun Yat-sen University, Qijin Chen (China) - Sun Yat-sen University, Junhao Pan (China) - Sun Yat-sen University, Edward H. Ip (United States) - Wake Forest School of Medicine

5:45pm **Bayesian Latent Mediation Regularization via LASSO, Horseshoe, Spike-and-Slab**
» Ethan Harris (United States) - University of Arkansas, Xinya Liang (United States) - University of Arkansas

6pm **Kullback-Leibler and Jensen-Shannon Divergences as Bayesian Discrepancy Functions for SEM**
» Ejike Edeh (United States) - University of Arkansas, Xinya Liang (United States) - University of Arkansas

5pm **Advances for Intensive Longitudinal Data and Multi-Modal Sensors**
B145, The Commons
Chaired by: Bing Cai Kok (United States)

5pm **Network Mapping with Implicit Gradients**
» Bing Cai Kok (United States) - University of North Carolina at Chapel Hill, Zachary Fisher (United States) - University of North Carolina at Chapel Hill, Kathleen Gates (United States) - University of North Carolina at Chapel Hill

5:15pm **Adaptive Structural Equation Modeling for Idiographic Dynamic Processes via Meta-Learning**
» Chaewon Lee (United States) - University of North Carolina at Chapel Hill, Kathleen Gates (United States) - University of North Carolina at Chapel Hill

Continued from **Wednesday, 22 July**

5:30pm **Measuring Dynamics with Static Tools: Ising-Generated Data Challenges Classical Psychometrics and Temporal Invariance**
» Sigi Sun (United States) - University of Virginia, Lindley Slipetz (United States) - University of Virginia, Teague Henry (United States) - University of Virginia

5:45pm **Hierarchical Reliability and Stability of Dynamic Functional Connectivity in Multi-Session, Multi-Subject fMRI**
» Ai Ye (Germany) - Max Planck Institute for Human Development, Claire Pauley (Germany) - Max Planck Institute for Human Development, Kim Falkenstein (Germany) - Max Planck Institute for Human Development, Simone Kühn (Germany) - Max Planck Institute for Human Development, Ulman Lindenberger (Germany) - Max Planck Institute for Human Development

6pm **Integrating Psychometric Scores with Bio-Behavioural Sensors: A Framework for Multi- Modality Data Fusion with Psychometric Score**
» Azizuddin Khan (India) - Indian Institute of Technology Bombay

5pm **AI and Validity**
B146, The Commons
Chaired by: Hong Jiao (United States)

5pm **Investigation of the Effects of Scoring on the AES Model Performance and Interpretation**
» Jeongheum Cho (Korea, Republic of) - Yonsei University, Ji Hoon Ryoo (Korea, Republic of) - Yonsei University

5:15pm **Improving the Measurement Quality of LLM-Based Automated Essay Scoring**
» Haeyeon Ahn (Korea, Republic of) - National Education Commission

5:30pm **From Single-Pass Deployment to Robust Scoring: Repeatability and Severity Shifts in GPT-4o-Mini for Automated Scoring of Music Analysis**
» Baicheng Lin (Korea, Republic of) - Sejong University, Lingxi Jin (Korea, Republic of) - Ewha Womans University, 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**
» Jinnie Shin (United States) - University of Florida, Zhe Li (United States) - University of Florida, Anna Pauline Aguinalde (United States) - University of Florida, Lingchen Kong (United States) - University of Florida, Amanda Wilson (United States) - University of Florida, Mary Bratsch-Hines (United States) - University of Florida

6pm **Multitask Modeling of Item Difficulty and Content Alignment in Large-Scale Assessment**
» Hong Jiao (United States) - University of Maryland, Xinyi Wang (China) - Beijing Normal University, Hanna Choi (United States) - University of Maryland, Sydney Peters (United States) - University of Maryland

5pm **Innovations in Psychometrics**
B147, The Commons
Chaired by: Matthias von Davier (United States)

5pm **Structured Regularization for Differential Item Functioning among Multiple Groups**
» He Ren (United States) - University of Washington, Chun Wang (United States) - University of Washington

5:15pm **Software for Parameter Selection for Windowed Cross Correlation (WCC)**
» Steven Boker (United States) - University of Virginia, Chris Welker (United States) - University of Virginia, Jingyun Wu (United States) - University of Virginia, Sareena Chadha (United States) - University of Virginia

Continued from **Wednesday, 22 July**

5:30pm **The LEVANTE Core Tasks: Internationalized Measures of Learning and Development for Children Ages 5-12 Years**
» Ben Domingue (United States) - Stanford University

5:45pm **Collaborative Learning in Online and Hybrid Higher Education Learning Environments**
» Sy-Miin Chow (United States) - The Pennsylvania State University, Xiaoyue Xiong (United States) - The Pennsylvania State University, Jyotirmoy Nirupam Das (United States) - The Pennsylvania State University, Majorie Bond (United States) - The Pennsylvania State University, Tracey Hammel (United States) - The Pennsylvania State University, Sharon Haeun Kim (United States) - The Pennsylvania State University, Jung In Kim (United States) - The Pennsylvania State University, Pui-Wa Lei (United States) - Pennsylvania State University, Molly Countermine (United States) - The Pennsylvania State University, Yoakim Badr (United States) - The Pennsylvania State University, Orfeu Buxton (United States) - The Pennsylvania State University, Matthew Beckman (United States) - The Pennsylvania State University, Prabhani Kuruppumullage Don (United States) - The Pennsylvania State University

6pm **On the Equivalence of Kish's Effective Sample Size and Satterthwaite's Degrees of Freedom under Homogeneous Variance Components**
» Matthias von Davier (United States) - TIMSS & PIRLS International Study Center at Boston College

5pm **Computerized Adaptive Tests**
S504, 5th Floor, Baekyang Hall
Chaired by: Yawen Ma (United Kingdom)

5pm **Traditional Progressive Tests with Stopping Rules from Computerized Adaptive Testing: Do Potential Advantages Outweigh Added Complexity?**
» Jianan Chen (Norway) - Centre for Educational Measurement, University of Oslo, Johan Braeken (Norway) - Centre for Educational Measurement, University of Oslo

5:15pm **Sequential Change Point Detection for Continuous Adaptive Online Testing**
» Yawen Ma (United Kingdom) - Lancaster University, Gabriel Wallin (United Kingdom) - Lancaster University

5:30pm **Adaptive Measurement of Numerical Reasoning in Incoming University Students**
» María Dolores Nieto (Spain) - Universidad Autónoma de Madrid, Juan F. Luesia (Spain) - Universidad Loyola Andalucía, Milagrosa Sánchez Martín (Spain) - Universidad Loyola Andalucía

5:45pm **A New CAT Model Fit for Language Testing of Beginners**
» Christian Bourassa (Canada) - Université de Montréal, Sébastien Béland (Canada) - Université de Montréal, Christophe Chénier (Canada) - Université de Montréal

6pm **Comparing CAT, Constrained CAT, and MST for Adaptive ELA Assessment**
» Jing Chen (United States) - Khan Academy, Beth Hart (United States) - Khan Academy, Emily Janzer (United States) - Khan Academy, Lauren Deters (United States) - Khan Academy

6:15pm **Walking Break**

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

Thursday, 23 July

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

Rethinking the Measurement and Analysis of Multilevel and Longitudinal Data through Psychometrics and Machine Learning
» Mirka Henninger (Switzerland) - University of Basel

Continued from **Thursday, 23 July**

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

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

9:45am **Refreshment Break**
B132, The Commons

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

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

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

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

Robust Psychometrics
» Max Welz (Switzerland) - University of Zurich

1:15pm **Group Photo**
Amphitheater (Inclement Weather Location: Auditorium, Baekyang Hall)

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

Psychometrika at 90: Past, Present, and Future
» Sandip Sinharay (United States) - ETS, Ji Seung Yang (United States) - University of Maryland, Klaas Sijtsma (Netherlands) - Tilburg University, David Thissen (United States) - University of North Carolina at Chapel Hill, Daniel Bolt (United States) - University of Wisconsin - Madison, Matthew Johnson (United States) - ETS, Alison Cheng (United States) - University of Notre Dame, Inhan Kang (Korea, Republic of) - Yonsei University, Yunxiao Chen (United Kingdom) - London School of Economics, Stella Kim (United States) - University of North Carolina at Charlotte

1:45pm **Symposium: SEM with Factors and Components I**
B125, Ballroom, The Commons
Chaired by: Florian Schuberth (Netherlands)

1:45pm **Specifying Composites in Structural Equation Modeling: Traditional, Recent and New Approaches**
» Florian Schuberth (Netherlands) - University of Twente, Jörg Henseler (Netherlands) - University of Twente, Xi Yu (Netherlands) - University of Twente, Tamara Schamberger (Germany) - University of Bielefeld, Gregory R. Hancock (United States) - University of Maryland

2pm **Factor- and Composite-Based Structural Equation Modeling: A New Approach to Incorporate Composites in the Traditional SEM Framework**
» Tamara Schamberger (Germany) - University of Bielefeld, Florian Schuberth (Netherlands) - University of Twente, Jörg Henseler (Netherlands) - University of Twente, Yves Rosseel (Belgium) - Ghent University

2:15pm **Teaching an Old Dog New Tricks: Item Parceling in a Single, Integrative Step**
» Xi Yu (Netherlands) - University of Twente, Florian Schuberth (Netherlands) - University of Twente, Todd D. Little (United States) - Texas Tech University, Jörg Henseler (Netherlands) - University of Twente

Continued from **Thursday, 23 July**

2:30pm **Nested Model Comparisons to Distinguish Common Factors from Composites**
» Mijke Rhemtulla (United States) - University of California, Davis, Danielle Siegel (United States) - University of California, Davis

2:45pm **Robust Recursive SEM with IGSCA Trees**
» Michael Truong (Canada) - York University, Florian Schuberth (Netherlands) - University of Twente, Ji Yeh Choi (United Arab Emirates) - Canadian University Dubai, David Flora (Canada) - York University

1:45pm Symposium: Measurement Non-Invariance

B126, Ballroom, The Commons

Chaired by: Patrícia Martinková (Czechia) and Gabriel Wallin (United Kingdom)

1:45pm **Beyond Individual DIF: A Social Network Framework for Identifying Structured Patterns of Non-Invariance**
» Adéla Hladká (Czechia) - Institute of Computer Science of the Czech Academy of Sciences, Sébastien Béland (Canada) - Université de Montréal

2pm **Addressing Measurement Error in Treatment-Related Differential Item Functioning**
» Patrícia Martinková (Czechia) - Institute of Computer Science of the Czech Academy of Sciences, Marie-Ann Sengewald (Germany) - Friedrich-Alexander-University Erlangen-Nürnberg, Michaela Vařejková (Czechia) - Institute of Computer Science of the Czech Academy of Sciences, Adéla Hladká (Czechia) - Institute of Computer Science of the Czech Academy of Sciences

2:15pm **DIF Analysis with Unknown Groups and Anchor Items for Asymmetric IRT Models**
» Gabriel Wallin (United Kingdom) - Lancaster University, Qi (Helen) Huang (United States) - Purdue University

2:30pm **Continuous DIF under Monotonicity Constraints: Methodological Challenges and Solutions**
» Michaela Cichrová (Czechia) - Institute of Computer Science, Czech Academy of Sciences; Faculty of Mathematics and Physics, Charles University, Patrícia 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: Jinho Kim (Korea, Republic of)

1:45pm **Evaluating GenAI Model Performance: A Psychometric Approach to Health Information Quality**
» Hamsa Subramaniam (United States) - Google, Sarah Montgomery-Taylor (United Kingdom) - Google, Stella Yeoum (United States) - Google, Jeremy Miles (United States) - Google, Jim Taylor (United States) - Google

2pm **Sociocognitive Theory Implications on Assessment on the AI (AoA) Framework**
» Jaehwa Choi (United States) - George Washington University, Rachel Choi (United States) - Cornell University

2:15pm **Evaluating the Feasibility of LLM-Based Automated Essay Scoring Under Different Score Distributions**
» Ji Won Yang (Korea, Republic of) - Seoul National University, Gyeongmee Gim (Korea, Republic of) - Seoul National University, 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**
» Xiaohui Luo (China) - Beijing Normal University, Hongyun Liu (China) - Beijing Normal University

2:45pm **An Extended Technology Acceptance Model of Generative AI for Learning**
» Jinho Kim (Korea, Republic of) - University of Seoul, Eunjung Jung (Korea, Republic of) - University of Seoul

Continued from **Thursday, 23 July**

1:45pm **Item Response Theory**
B146, The Commons
Chaired by: Marie Wiberg (Sweden)

1:45pm **Collateral Information from Response Time: Effects of Test Length**
» Walton Ferguson (United States) - University of Notre Dame, Alison Cheng (United States) - University of Notre Dame

2pm **A Multi-Faceted Multidimensional Unfolding Model for Examining Rater Preferences**
» Kuan-Yu Jin (Hong Kong) - Hong Kong Examinations and Assessment Authority, Jue Wang (Hong Kong) - Hong Kong Examinations and Assessment Authority

2:15pm **Stabilizing Item Parameter Estimation under Null Categories**
» Chae-eun Kim (Korea, Republic of) - Hallym University

2:30pm **Evaluating Item Difficulty Stability Across Test Forms in a Cluster-Rotation Design**
» Van Nguyen (Australia) - Australian Council for Educational Research

2:45pm **The Impact of Linkage Plan Choice on Observed-Score Equating**
» Marie Wiberg (Sweden) - Umeå University

1:45pm **Latent Class Models**
B147, The Commons
Chaired by: Michael Ilagan (Canada)

1:45pm **A Robust Sample-Ratio Correction for Measurement Invariance with Unbalanced Samples**
» Teddy Chen (United States) - University of California, Davis, Mijke Rhemtulla (United States) - University of California, Davis

2pm **Unsupervised Detection of Careless Responding with Auxiliary Covariates**
» Michael Ilagan (Canada) - University of Alberta, Carl Falk (Canada) - McGill University

2:15pm **Latent Class Analysis via Gaussian Mixture IRT for Mixed Response Data**
» Xiangbin Meng (China) - Northeast Normal University, 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**
» Ömer Emre Can Alagöz (Germany) - University of Mannheim, Thorsten Meiser (Germany) - University of Mannheim, Rudolf Debelak (Switzerland) - University of Zurich / EPFL

2:45pm **A Joint Modeling Approach for Faking Correction in Forced-Choice Questionnaires**
» Diego Graña (Spain) - Universidad Autónoma de Madrid, Susanne Frick (Germany) - TU Dortmund University, Francisco J. Abad (Spain) - Universidad Autónoma de Madrid, Miguel A. Sorrel (Spain) - Universidad Autónoma de Madrid, Rodrigo Schames Kreitchmann (Spain) - Universidad Nacional de Educación a Distancia

1:45pm **Fairness and Equity**
Room 101, School of Business
Chaired by: Ines M. Varas (Chile)

1:45pm **The Role of Selection Weights in Shaping Equity and Predictive Validity in University Admissions**
» Eduardo Alarcón-Bustamante (Chile) - DEMRE - Universidad de Chile

2pm **Predictive Validity under Test Reform: Challenges of Comparing Curriculum- and Competency-Based Admission Tests**
» Victoria Florenzano (Chile) - DEMRE - Universidad de Chile

2:15pm **Dependent Models for Test Equating: a Latent Approach**
» Ines M. Varas (Chile) - Universidad Técnica Federico Santa María

Continued from **Thursday, 23 July**

2:30pm **How Unreliable Scores Distort Educational Equity Indicators**
» Jiahui Zhang (China) - Beijing Normal University

2:45pm **Cross-Classified Modeling of Prompt Fairness in Writing Assessment**
» Sohyeon Lee (United States) - University of Hawaii at Manoa

1:45pm **Symposium: From Measurement to Mechanism**
Room 102, School of Business
Chaired by: Noah van Dongen (Netherlands)

1:45pm **A Case for Modern Theoretical Psychology**
» Noah van Dongen (Netherlands) - Erasmus University Rotterdam, Vencislav Popov (Switzerland) - University of Zurich, Gijs Holleman (Netherlands) - Tilburg University

2pm **Bayesian Variable Selection in Mixed Ordinal-Continuous Markov Random Fields**
» Maarten Marsman (Netherlands) - University of Amsterdam

2:15pm **Behavioral Interfaces for Psychological Theories: An Application using Network Theory and AI**
» Denny Borsboom (Netherlands) - University of Amsterdam

2:30pm **Nonlinear Dynamics to Simulate and Test Interventions**
» Titus Muertz (Netherlands) - University of Amsterdam

1:45pm **Estimation and Computational Methods**
Room 103, School of Business
Chaired by: Joost Van Ginkel (Netherlands)

1:45pm **Are Extensive Simulation Studies Always Necessary? a Critical Overview**
» Joost Van Ginkel (Netherlands) - Leiden University, Ralph Rippe (Netherlands) - Leiden University

2pm **Assessing Measurement Invariance with Bifactor IRT Models**
» Lu Zhang (Norway) - University of Oslo, Björn Andersson (Norway) - University of Oslo

2:15pm **Addressing Excessive Zeros in Assessment using a Zero-Inflated Mixture IRT Framework**
» Fathima Jaffari (Saudi Arabia) - Education and Training Evaluation Commission, Georgios Sideridis (United States) - Harvard Medical School

2:30pm **Bias-Corrected Linking Coefficients and Their Asymptotic Standard Errors for Common-Examinee Designs**
» Ikko Kawahashi (Japan) - Meiji-Gakuin Univesity, Hiroyuki Noguchi (Japan) - Nagoya University, Saori Kubo (Japan) - Tohoku University

2:45pm **The Incomparability of Standardized Estimates in Manifest- and Latent-Variable Modeling**
» Zhonglin Wen (China) - South China Normal University, Wang Yifan (China) - South China Normal University

1:45pm **Causal Inference**
S504, 5th Floor, Baekyang Hall
Chaired by: Jenn-Yun Tein (United States)

1:45pm **Causal Inference in Latent Mediation: A Robust G-Estimation Approach for Randomized Trials**
» Sofia Morelli (Germany) - Tübingen University, Roberto Faleh (Germany) - Tübingen University, Holger Brandt (Germany) - Tübingen University

2pm **Use of Regression Anatomy to Identify Structural Bias in DAGs**
» Jaehyun Shin (United States) - Virginia Polytechnic Institute and State University, Yasuo Miyazaki (United States) - Virginia Polytechnic Institute and State University

Continued from **Thursday, 23 July**

2:15pm **Predicting Mixture Mediation Pathways from Contextual Risk Using Machine Learning**
» Jenn-Yun Tein (United States) - Arizona State University, Cheuk Hei (Bosco) Cheng (United States) - Arizona State University, Savannah G Ostner (United States) - Arizona State University, Sierra Clifford (United States) - Arizona State University, Daniel S Shaw (United States) - University of Pittsburgh, Kathryn Lemery-Chalfant (United States) - Arizona State University

2:30pm **Advantages and Limitations of Transfer Learning for Individual Treatment Effects**
» Seyda Aydin (Germany) - University of Tübingen, Holger Brandt (Germany) - Tübingen University

2:45pm **Deep Neural Nuisance Models for G-Estimation in Mediation Analysis with Unmeasured Confounding**
» Roberto Faleh (Germany) - Tübingen University, Sofia Morelli (Germany) - Tübingen University, Holger Brandt (Germany) - Tübingen University

3pm **Refreshment Break**
B132, The Commons

3:15pm **Symposium: Causal Inference and Mediation**
Auditorium, Baekyang Hall
Chaired by: Jee-Seon Kim (United States)

3:15pm **A Causal Framework for Careless Responding**
» Jiwoo Kim (United States) - Cornell University, Felix Thoemmes (United States) - Cornell University

3:30pm **Variation in Causal Mediation Effect Estimates Across Estimation Strategies**
» Hanna Kim (United States) - University of California, Santa Cruz, Jee-Seon Kim (United States) - University of Wisconsin - Madison

3:45pm **Why Applied Causal Inference Needs Directed Acyclic Graphs**
» Peter Steiner (United States) - University of Maryland, College Park, Nathan J. Quimpo (United States) - University of Maryland, College Park

4pm **Change as Consequence, not Cause: A Critique of Latent Growth Modeling**
» Yongnam Kim (Korea, Republic of) - Seoul National University, Yunjoo Han (Korea, Republic of) - Seoul Bongcheon Elementary School

3:15pm **Longitudinal Latent Class Models**
B125, Ballroom, The Commons
Chaired by: 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**
» Yuqi Liu (Netherlands) - Leiden University, Zsuzsa Bakk (Netherlands) - Leiden University, Mark de Rooij (Netherlands) - Leiden University, Ethan McCormick (United States) - University of Delaware

3:30pm **Frequentist Forecasting of Regime-Switching Models Incorporating Within- and Between-Individual Differences**
» Kento Okuyama (Germany) - University of Tübingen, Tim Schaffland (Germany) - d-fine GmbH, Pascal Kilian (Germany) - Robert Bosch GmbH, Holger Brandt (Germany) - University of Tübingen, Augustin Kelava (Germany) - University of Tübingen

3:45pm **Dynamic Latent Transition Analysis Expanding Repeated Measures into Continuous Prediction**
» Ji Hoon Ryoo (Korea, Republic of) - Yonsei University, Dakyung Ryu (Korea, Republic of) - Kyungpook National University, Yeongjin Jo (Korea, Republic of) - Yonsei University, Younghae Do (Korea, Republic of) - Kyungpook National University

4pm **Quantifying Change in Latent Transition Analysis: Effect Size and Its Confidence Interval**
» Zonggui Li (United States) - University of Maryland School of Pharmacy, Ehri Ryu (United States) - Boston College

Continued from **Thursday, 23 July**

4:15pm **Robust Bayesian Growth Mixture Modeling for Small Latent Classes**
» Chad Davis (United States) - University of Virginia, Xin Tong (United States) - University of Virginia, Eunsook Kim (United States) - University of South Florida, Yan Wang (United States) - University of Massachusetts Lowell, John Ferron (United States) - University of South Florida, David Goretzko (Germany) - Department of Psychology, Goethe University, Frankfurt

3:15pm **Symposium: Latent Space Item Response Modeling**
B126, Ballroom, The Commons
Chaired by: 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**
» Inhan Kang (Korea, Republic of) - Yonsei University

3:30pm **A Latent Space Accumulator Model for Response Time: Applications to Cognitive Assessment Data**
» Ick Hoon Jin (Korea, Republic of) - Yonsei University, Hyunjoo Kim (United States) - University of Illinois Urbana-Champaign, Minjeong Jeon (United States) - University of California, Los Angeles

3:45pm **Hyperbolic Latent Space Item Response Models for Hierarchical Structures**
» Gwanghee Kim (Korea, Republic of) - Yonsei University, Ick Hoon Jin (Korea, Republic of) - Yonsei University, Minjeong Jeon (United States) - University of California, Los Angeles

4pm **Measuring Progress with an Interaction Map Approach for Longitudinal Assessment Data**
» Minjeong Jeon (United States) - University of California, Los Angeles

4:15pm **Heterogeneity of Response Style Behaviors: Empirical Findings from LS-IRTree Model Application**
» Nana Kim (United States) - University of Minnesota - Twin Cities, Minjeong Jeon (United States) - University of California, Los Angeles

3:15pm **Psychometric and Behavioral Methods**
B145, The Commons
Chaired by: Theodore Walls (United States)

3:15pm **Profiling Collaborative Learning Behavior via Network-Based Multivariate Dynamic Time Warping**
» Na Ra Nam (Korea, Republic of) - Konkuk University, Euigyum Kim (Korea, Republic of) - Sogang University, Hyo Jeong Shin (Korea, Republic of) - Sogang University

3:30pm **Context-Aware Modeling of Test-Taking Clickstream Data Using Transformer Encoder**
» Ruiting Shen (United States) - New York University, Klint Kanopka (United States) - New York University

3:45pm **Inference for Biomechanical and Behavioral Mobile Sensing Data**
» Theodore Walls (United States) - University of Rhode Island, Nathan DeSalvo (United States) - University of Rhode Island, Kathleen Melanson (United States) - University of Rhode Island, Adeleke Akinkurolere (United States) - University of Rhode Island, Edison Thomaz (United States) - University of Texas at Austin, Cody J Arvonen (United States) - University of Texas at Austin, Rahil Kazerounian (United States) - University of Rhode Island

4pm **Flexible Exploratory Item Factor Analysis using Variational Autoencoders**
» Youngjin Han (United States) - University of Maryland, 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**
» Eunwoo Kim (Korea, Republic of) - Yonsei University, Inhan Kang (Korea, Republic of) - Yonsei University

3:15pm **Multivariate Analysis**
B146, The Commons
Chaired by: Sunmee Kim (Canada)

Continued from **Thursday, 23 July**

3:15pm **Detecting Covariate-Dependent Heterogeneity in Multivariate Extended Redundancy Analysis via Model-Based Recursive Partitioning**
» Sam Sichkaruk (Canada) - University of Manitoba, Lisa Lix (Canada) - University of Manitoba, Richard Kruk (Canada) - University of Manitoba, Sunmee Kim (Canada) - University of Manitoba

3:30pm **Model-Based Least-Squares Imputation for Multivariate Extended Redundancy Analysis under Complex Missingness**
» Bryce Phillips (Canada) - University of Manitoba, Depeng Jiang (Canada) - University of Manitoba, Richard Kruk (Canada) - University of Manitoba, Sunmee Kim (Canada) - University of Manitoba

3:45pm **Kernel Extended Redundancy Analysis: Penalized RKHS-Based Estimation for Flexible Component Construction**
» Sunmee Kim (Canada) - University of Manitoba, Hye Won Suk (Korea, Republic of) - Seoul National University, Heungsun Hwang (Canada) - McGill University

4pm **A Systematic Review of Multivariate Anomaly Detection in Psychological Research**
» Loreen Sabel (Germany) - TU Dortmund University, Philipp Doebler (Germany) - TU Dortmund University

4:15pm **Replicability of BWAS Studies: Principal Covariate Versus Ridge Regression**
» Lisa Verbeij (Netherlands) - Leiden University, Mark de Rooij (Netherlands) - Leiden University, Wouter Weeda (Netherlands) - Leiden University

3:15pm **Bayesian**
B147, The Commons
Chaired by: David Kaplan (United States)

3:15pm **Bayes Factors for Structural Equation Models with Bridge Sampling and Blavaan**
» Julius M. Pfadt (Netherlands) - University of Amsterdam, Edgar C. Merkle (United States) - University of Missouri, Eric-Jan Wagenmakers (Netherlands) - University of Amsterdam

3:30pm **Bayesian SEM Model Evaluation and Comparison with Blavaan**
» Mauricio Garnier-Villarreal (Netherlands) - Vrije Universiteit Amsterdam, Terrence Jorgensen (Netherlands) - University of Amsterdam, Sara van Erp (Netherlands) - Utrecht University, Edgar C. Merkle (United States) - University of Missouri

3:45pm **Accelerating Bayesian SEM with GPU Computing: An Efficiency Study**
» Jorge Sinval (Singapore) - Nanyang Technological University, Edgar C. Merkle (United States) - University of Missouri

4pm **Empirical Underidentification in Latent Variable Models**
» Eric Loken (United States) - University of Connecticut

4:15pm **Addressing Model Uncertainty in Experimental Designs via Bayesian Stacking**
» David Kaplan (United States) - University of Wisconsin - Madison, Red Paulin (United States) - University of Wisconsin - Madison

3:15pm **Symposium: Dynamical Systems Modeling**
Room 101, School of Business
Chaired by: Meng Chen (United States)

3:15pm **Detecting Qualitatively Distinct Continuous-Time Dynamics Using Mixture Differential Equation Models**
» Meng Chen (United States) - University of Southern California, Michael Hunter (United States) - The Pennsylvania State University

3:30pm **Nonparametric Inference of Stability Landscapes from Intensive Longitudinal Data**
» Jingmeng Cui (Belgium) - KU Leuven, Eva Ceulemans (Belgium) - KU Leuven, Francis Tuerlinckx (Belgium) - KU Leuven

Continued from **Thursday, 23 July**

3:45pm **Dynamic Structural Equation Models with Composites**
» Sijia Li (Canada) - University of British Columbia, Sy-Miin Chow (United States) - The Pennsylvania State University, Victoria Savalei (Canada) - University of British Columbia

4pm **Model Selection Measures for Bayesian Models with Abrupt and Gradual Changes**
» Yanling Li (United States) - The Pennsylvania State University, Xiaoyue Xiong (United States) - The Pennsylvania State University, Zita Oravecz (United States) - The Pennsylvania State University, Sy-Miin Chow (United States) - The Pennsylvania State University

4:15pm **Using Vector Generalized Additive Models to Estimate Time-Varying Vector Autoregressive Models**
» Simran Johal (United States) - University of Oregon

3:15pm Symposium: Applications of Generative AI

Room 102, School of Business

Chaired by: Luning Sun (United Kingdom)

3:15pm **Developing Image-Based Personality Tests using Multimodal Large Language Models**
» Luning Sun (United Kingdom) - University of Cambridge, Fang Luo (China) - Beijing Normal University, Zonglei Zhen (China) - Beijing Normal University, David Stillwell (United Kingdom) - University of Cambridge

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

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

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

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

3:15pm Symposium: Machine Learning and Causal Inference

Room 103, School of Business

Chaired by: Melanie Viola Partsch (Netherlands)

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

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

Continued from **Thursday, 23 July**

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

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

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

3:15pm **Symposium: SEM with Factors and Components II**
S504, 5th Floor, Baekyang Hall
Chaired by: Florian Schuberth (Netherlands)

3:15pm **Second-Order Structural Equation Modeling with both Factors and Components**
» In-Hyun Baek (Canada) - McGill University, Gyeongcheol Cho (United States) - The Ohio State University, Florian Schuberth (Netherlands) - University of Twente, Heungsun Hwang (Canada) - McGill University

3:30pm **AGAS-PLS: A Genetic Algorithm for Automated Structural Model Specification in Composite-Based SEM**
» Laura Trinchera (France) - NEOMA Business School, Gloria Pietropolli (Italy) - University of Trieste, Mauro Castelli (Portugal) - NOVA Information Management School (NOVA IMS), Universidade NOVA de Lisboa, Florian Schuberth (Netherlands) - University of Twente

3:45pm **Refined Matrix Decomposition SEM: Integrating Factor and Component Structures without Penalty Parameters**
» Naoto Yamashita (Japan) - Kansai University

4pm **Structural Equation Modeling with Factors and Composites: SVD-SEM or RML-SEM?**
» Arthur Tenenhaus (France) - Laboratoire des Signaux et Systèmes, Alain Luong (France) - Laboratoire des Signaux et Systèmes, Michel Tenenhaus (France) - HEC Paris

4:15pm **Relaxed SEM-Based Out-of-Sample Predictions**
» Aditi M Bhangale (Netherlands) - Leiden University, Julian D Karch (Netherlands) - Leiden University, Mark de Rooij (Netherlands) - Leiden University

4:30pm **Walking Break**

4:45pm **Presidential Panel Discussion**
Auditorium, Baekyang Hall
Chaired by: Jae-Chun Ban (Korea, Republic of) and Kyung-Seok Min (Korea, Republic of)

4:45pm **Past, Present, and Future of Measurement and Evaluation in Korean Education**
» Jae-Chun Ban (Korea, Republic of) - Chungnam National University, Kyung-Seok Min (Korea, Republic of) - Sejong University, Korea, Jong Seung Lee (Korea, Republic of) - Chungnam National University, Do-Soon Park (Korea, Republic of) - Korea University, Taeje Seong (Korea, Republic of) - Ewha Womans University, Eunlim Chi (Korea, Republic of) - Kyung Hee University, Guemin Lee (Korea, Republic of) - Yonsei University

4:45pm **Symposium: Celebrating Twenty-five Years of the lz* Statistic**
B125, Ballroom, The Commons
Chaired by: Sandip Sinharay (United States)

4:45pm **Outlier Detection, Person Fit, and Robust Estimation of IRT Models**
» Alison Cheng (United States) - University of Notre Dame

5pm **About the (Very Old) Story of Lz***
» Sébastien Béland (Canada) - Université de Montréal

Continued from **Thursday, 23 July**

5:15pm **Asymptotically Correct Standardization of Person-Fit Statistics: Some Recent Developments**
» Sandip Sinharay (United States) - ETS

5:30pm **Conformal Inference for Aberrant Response Detection**
» Youmin Hong (United States) - University of Maryland, Ji Seung Yang (United States) - University of Maryland, Yang Liu (United States) - University of Maryland

5:45pm **Discussion: Future of Person-Fit Analysis in Assessing Test Performance**
» Klaas Sijtsma (Netherlands) - Tilburg University

4:45pm Estimation and Computational Methods

B126, Ballroom, The Commons
Chaired by: Francis Tuerlinckx (Belgium)

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

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

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

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

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

4:45pm Factor Analysis and Measurement Invariance

B145, The Commons
Chaired by: Njål Foldnes (Norway)

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

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

5:15pm **New Test Procedures for CFA Model Fit and Nested Model Comparisons**
» Njål Foldnes (Norway) - University of Stavanger, Steffen Grønneberg (Norway) - BI Norwegian Business School, 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)**
» Jiwon Kim (United States) - Northwestern University, Y. Catherine Han (United States) - Northwestern University, Augusta Zukauskas (United States) - Northwestern University, Aaron J. Kaat (United States) - Northwestern University, Emily Ho (United States) - Northwestern University, Richard Gershon (United States) - Northwestern University, Elizabeth M. Dworak (United States) - Northwestern University

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

Continued from **Thursday, 23 July**

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

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

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

5:15pm **Applications of Distillation and Optimization Techniques to SLM in AES**
» Seongil Kim (Korea, Republic of) - Yonsei University, Guemin Lee (Korea, Republic of) - Yonsei University

5:30pm **Predicting Item Difficulty for High-Stakes Tests with Open-Weight LLMs**
» Meounggun Jo (Korea, Republic of) - Hoseo University

5:45pm **QUALITAS: Adapting Qualitative LLM Coding to Within-Scheme Variability**
» Wen Qu (China) - Fudan University, Shufeng Ma (China) - East China Normal University

4:45pm **Causal Inference**
B147, The Commons
Chaired by: Ben Kelcey (United States)

4:45pm **Identifying Causes of Effect-Heterogeneity Between Quasi-Experimental Replication Studies**
» Steffi Pohl (Germany) - Freie Universität Berlin, Mathias Twardawski (Germany) - Ludwig-Maximilian-University München, Marie-Ann Sengewald (Germany) - Friedrich-Alexander-University Erlangen-Nürnberg

5pm **Incorporating Information About Mechanisms/Causal Powers into Causal Inference**
» Keith Markus (United States) - John Jay College, CUNY

5:15pm **Targeted after Generative Learning for Causal Inference with Latent Variables**
» Ben Kelcey (United States) - University of Cincinnati, Amota Ataneka (United States) - University of Cincinnati, Jean-Baptiste Habarurema (United States) - University of Cincinnati

5:30pm **Many Mediators: High-Dimensional Heterogeneous Mediation Analysis with Power Enhancements**
» Xiufan Yu (United States) - University of Notre Dame, Ken Kelley (United States) - University of Notre Dame

5:45pm **Does X at Time 1 Cause Y at Time 2? Longitudinal Causal Learning with Hidden Confounders**
» Dexin Shi (United States) - University of South Carolina, Wolfgang Wiedermann (United States) - University of Missouri, Amanda Fairchild (United States) - University of South Carolina, Bo Zhang (United States) - University of Illinois Urbana-Champaign

4:45pm **AI Applications**
S504, 5th Floor, Baekyang Hall
Chaired by: Brian Gin (United States)

4:45pm **Operationalizing GenAI Scoring in Multilingual Assessment**
» Ji Yoon Jung (United States) - TIMSS & PIRLS International Study Center at Boston College, Ummugul Bezirhan (United States) - TIMSS & PIRLS International Study Center at Boston College, Matthias von Davier (United States) - TIMSS & PIRLS International Study Center at Boston College

Continued from **Thursday, 23 July**

5pm

Refactoring Our Spherical Cows: Reevaluating Our Most Important Simplifications

» Michael Hardy (United States) - Stanford University

5:15pm

Automated Q-Matrix Construction for Cognitive Diagnostic Models

» Samuel Huang (United States) - University of Notre Dame, Cheng Liu (United States) - University of Notre Dame

5:30pm

Crash Test Dummies: Validating Virtual Patients with Virtual Learners

» Brian Gin (United States) - University of Illinois, Chicago, Flávia Silva e Oliveira (Brazil) - Universidade Federal de Catalão, Ahreum Lim (United States) - University of Illinois, Chicago, Kuan Xing (United States) - The University of Iowa, Lukas Shum-Tim (Canada) - McMaster University, Matthew Kaminsky (United States) - The University of Chicago, Xiaomei Song (United States) - Case Western Reserve University, Bob Kiser (United States) - University of Illinois, Chicago, Ananya Gangopadhyaya (United States) - University of Illinois, Chicago, Laura McKenzie (United States) - University of Illinois, Chicago, Ara Tekian (United States) - University of Illinois, Chicago, Lauren Maggio (United States) - University of Illinois, Chicago, 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: Silvia Cagnone (Italy) and Marie Wiberg (Sweden) and Paolo Giordani (Italy) and YoungKoung Kim (United States)

9am

Regularized Multigroup High-Dimensional Item Response Theory via Joint Maximum Likelihood Estimation: A Motivating Application to Large Language Models Evaluation

» Pengyuan Yang (Netherlands) - Tilburg University, Sanne Peereboom (Netherlands) - Tilburg University

9:20am

Trait– and State–Level Activity Deviations as Longitudinal Markers: A Normative Multilevel Functional Approach

» ChiHyeon Noh (Korea, Republic of) - Pusan National University, HanSung Jeong (Korea, Republic of) - Pusan National University, Mihyeon Kang (Korea, Republic of) - Pusan National University

9:40am

A General and Tunable Deep Amortized Inference Framework for Latent Variable Models in Psychometrics

» Nanyu Luo (Canada) - University of Toronto, Siyi Wang (Canada) - University of Toronto

9am

Symposium: Generalized Structured Component Analysis

B125, Ballroom, The Commons

Chaired by: Gyeongcheol Cho (United States)

9am

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

» Luqi He (Canada) - McGill University, Gyeongcheol Cho (United States) - The Ohio State University, Heungsun Hwang (Canada) - McGill University

9:15am

Completing Partial Least Squares Path Modeling: Generalized Structured Component Analysis

» 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

» Zhiyuan Shen (Canada) - McGill University, Heungsun Hwang (Canada) - McGill University

Continued from **Friday, 24 July**

9:45am **Multilevel GSCA with Group-Level Variables: An Illustration Using GSCA Pro**
» Sunmee Kim (Canada) - University of Manitoba, Gyeongcheol Cho (United States) - The Ohio State University, Heungsun Hwang (Canada) - McGill University, Gabriel Cepeda Carrión (Spain) - Universidad de Sevilla, Silvia Martelo-Landroguez (Spain) - Universidad de Sevilla, José Roldán (Spain) - Universidad de Sevilla

10am **Extending Generalized Structured Component Analysis with Kernel Functions for Modeling Nonlinear Data**
» Hye Won Suk (Korea, Republic of) - Seoul National University, Gyeongcheol Cho (United States) - The Ohio State University, Heungsun Hwang (Canada) - McGill University

9am AI and IRT

B126, Ballroom, The Commons

Chaired by: Seock-Ho Kim (United States)

9am **Modeling Human-LLM Agreement in Spelling-Pronunciation Transparency**
» Hyemin Park (United States) - University of California, Berkeley, Qing Cai (United States) - University of California, Berkeley

9:15am **Leveraging Prompt Engineering for Automated WJ V Short-Form Test Assembly**
» Hyeonjoo Oh (United States) - Riverside Insights, Tong Wu (United States) - Riverside Insights, Youngmi Cho (United States) - Riverside Insights

9:30am **Scaling Intelligence: Applying Latent Trait Models to AI Evaluation**
» Euigyum Kim (Korea, Republic of) - Sogang University, Hyo Jeong Shin (Korea, Republic of) - Sogang University, Seonghoon Yang (Korea, Republic of) - Upstage AI

9:45am **Item Response Theory Models in Psychometric Textbooks**
» Seock-Ho Kim (United States) - University of Georgia, Ashley Heady (United States) - University of Georgia, Tamlyn Lahoud (United States) - University of Georgia, Jing Li (United States) - University of Georgia, Jingyang Li (United States) - University of Georgia

9am Multilevel

B145, The Commons

Chaired by: Clifford Hauenstein (United States)

9am **A Mixed-Effects Location-Scale Model for Intervention Data**
» Yue Liu (China) - Sichuan Normal University, Yueling He (China) - Sichuan Normal University

9:15am **Random-Effects Trifactor Modeling for Partially Nested Multi-Informant Assessment Data**
» Eunsook Kim (United States) - University of South Florida, Xin Qiao (United States) - University of South Florida, Emma Evudottir (United States) - University of South Florida, Alexander Goyette (United States) - University of South Florida, Nathaniel von der Embse (United States) - University of South Florida

9:30am **Evaluating Bayesian Variable Selection Approaches for Nonlinear Random Effects Models**
» Yue Zhao (United States) - University of Minnesota - Twin Cities, Nidhi Kohli (United States) - University of Minnesota - Twin Cities, Eric Lock (United States) - University of Minnesota - Twin Cities

9:45am **Exploratory Bayesian Smoothing of Parameter Dynamics in Drift Diffusion Models**
» Clifford Hauenstein (United States) - The Johns Hopkins School of Medicine, Eunbee Kim (United States) - Georgia Institute of Technology

10am **Mixed-Resolution Spatial Latent Variable Models for Mapping Social Unrest**
» Jasmine Burgess (United Kingdom) - Lancaster University, Gabriel Wallin (United Kingdom) - Lancaster University, Rachel McCrea (United Kingdom) - Lancaster University, Matthew Thomas (United Kingdom) - British Red Cross

Continued from **Friday, 24 July**

9am **Longitudinal Methods**
B146, The Commons
Chaired by: Ethan McCormick (United States)

9am **Longitudinally-Informed Power Analysis: Adaptive Recalibration of Longitudinal Designs**
» Yi Feng (United States) - University of California, Los Angeles, Gregory R. Hancock (United States) - University of Maryland

9:15am **Group-Lasso for Three-Mode GMANOVA Model with Unknown Item Structure**
» Rei Monden (Japan) - Hiroshima University, Mineaki Ohishi (Japan) - Tohoku University, Ryoya Oda (Japan) - Hiroshima University, 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**
» Seung Soo Kim (Korea, Republic of) - Gyeongin National University of Education, Chong-min Kim (Korea, Republic of) - Gyeongin National University of Education

9:45am **Statistical Modeling for Timing Just-in-Time Adaptive Interventions**
» Marie Turcicova (Czechia) - Institute of Computer Science, Czech Academy of Sciences, Patrícia Martinková (Czechia) - Institute of Computer Science, Czech Academy of Sciences

10am **Moderation of Compound Parameters: New Opportunities for Testing Group- and Individual-Level Heterogeneity**
» Ethan McCormick (United States) - University of Delaware, Gregory R. Hancock (United States) - University of Maryland

9am **Dynamical Systems Modeling**
B147, The Commons
Chaired by: Jordan Revol (Belgium)

9am **When Cycles Coexist with Mean Trends in DSEM: Diagnostics, Joint Modeling, and Practical Guidelines**
» Yeongjin Jo (Korea, Republic of) - Yonsei University, Ji Hoon Ryoo (Korea, Republic of) - Yonsei University

9:15am **Strategic Sampling for VAR Estimation Performance: The Episode-Contingent Design**
» Jordan Revol (Belgium) - KU Leuven, Ginette Lafit (Belgium) - KU Leuven, Eva Ceulemans (Belgium) - KU Leuven, Sigert Ariens (Belgium) - KU Leuven

9:30am **How to Bridge the Night Gap in ESM Data with Continuous-Time Modeling**
» Pablo F. Cáncer (Spain) - Universidad Pontificia Comillas, Sophie Berkhout (Netherlands) - Utrecht University, Charles Driver (Switzerland) - University of Zurich, Ellen Hamaker (Netherlands) - Utrecht University, Eduardo Estrada (Spain) - Universidad Autónoma de Madrid

9:45am **Mapping Latent Error Transitions via HMM in Neuropsychological Assessment**
» Isadora Leticia Silvestre Martins (Brazil) - Mackenzie Presbyterian University, Matheus de Melo Rodrigues (Brazil) - Mackenzie Presbyterian University, Victor Engelmann Ribeiro Formigoni (Brazil) - Mackenzie Presbyterian University, Alexandre Luiz de Oliveira Serpa (Brazil) - Mackenzie Presbyterian University

10am **A Factored Regression Framework for Dynamic Structural Equation Modeling**
» Brian Keller (United States) - University of Missouri, Suyoung Kim (Korea, Republic of) - Gachon University

9am **Symposium: Robust Bayesian Analysis**
Room 101, School of Business
Chaired by: Vipasha Goyal (Netherlands)

9am **Bayesian Estimation of Ordinal Cross-Lagged Panel Model**
» Vipasha Goyal (Netherlands) - University of Amsterdam

Continued from **Friday, 24 July**

9:15am **bvarnet: Bayesian Estimation of Multilevel Vector Autoregressive Networks using STAN**
» Florian Metwaly (Netherlands) - University of Amsterdam

9:30am **LLM-Based Prior Elicitation for Bayesian Graphical Modeling**
» Nikola Sekulovski (Netherlands) - University of Amsterdam

9:45am **Model Space Priors and Dual Multiplicity in High-Dimensional Graphical Models**
» Emily Schutte (Netherlands) - University of Amsterdam, Maarten Marsman (Netherlands) - University of Amsterdam, Giuseppe Arena (Netherlands) - University of Amsterdam

10am **Effective Sample Size Determination and Sample Size Planning for Bayesian Graphical Models with Informative Priors**
» Giuseppe Arena (Netherlands) - University of Amsterdam, Lourens Waldorp (Netherlands) - University of Amsterdam, Maarten Marsman (Netherlands) - University of Amsterdam

9am **Symposium: Machine Learning Innovations**
Room 102, School of Business
Chaired by: Igor Himelfarb (United States)

9am **Predicting Test Outcomes from Item Responses Using Supervised Machine Learning**
» Igor Himelfarb (United States) - National Board of Chiropractic Examiners, Shohreh Karbaschi (United States) - University of Northern Colorado, Bowen Wang (United States) - National Board of Chiropractic Examiners, Nai-En Tang (United States) - National Board of Chiropractic Examiners

9:15am **Item Classification by Difficulty Using Functional Principal Component Clustering and Neural Networks**
» Bowen Wang (United States) - National Board of Chiropractic Examiners, James Zoucha (United States) - University of Northern Colorado, Igor Himelfarb (United States) - National Board of Chiropractic Examiners, Nai-En Tang (United States) - National Board of Chiropractic Examiners

9:30am **Using Deep Reinforcement Learning to Decide Test Length**
» James Zoucha (United States) - University of Northern Colorado, Igor Himelfarb (United States) - National Board of Chiropractic Examiners, Nai-En Tang (United States) - National Board of Chiropractic Examiners

9:45am **Predicting Item Responses Using Mouse Trajectory Paradata and Machine Learning**
» Kyosuke Bunji (Japan) - Kobe University

10am **Post-Selection Inference Thresholds in Hierarchical Survey Data: A Simulation Study**
» Minjeong Rho (Korea, Republic of) - Korea National University of Education, Jin Eun Yoo (Korea, Republic of) - Korea National University of Education

9am **Missing Data**
Room 103, School of Business
Chaired by: Tracy Sweet (United States)

9am **Selection and Inference for Moderation Analysis with Missing Data**
» Tianrun Zhu (United States) - University of California, Merced, Fan Jia (United States) - University of California, Merced

9:15am **Missing Data in Social Networks**
» Tracy Sweet (United States) - University of Maryland

9:30am **Integrating IRT and Deep-Learning Approaches for Two-Step Imputation in Large-Scale Assessments**
» Usama Ali (United States) - ETS, 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**
» Austin Wyman (United States) - University of Notre Dame, Johnny Zhang (United States) - University of Notre Dame

Continued from **Friday, 24 July**

10am **Modeling Nonresponse in Matching Item Response Theory**
» Rinhi Higashiguchi (Japan) - The University of Tokyo, Kentaro Fukushima (Japan) - The University of Osaka, Kensuke Okada (Japan) - The University of Tokyo

9am **Factor Analysis**
S504, 5th Floor, Baekyang Hall
Chaired by: Steffen Grønneberg (Norway)

9am **An Extension of Minimum Rank Factor Analysis for Dealing with Correlated Residuals**
» Naomichi Makino (Japan) - National Center for University Entrance Examinations

9:15am **Factor Indeterminacy in Simulation and Linear Structural Equation Models**
» Steffen Grønneberg (Norway) - BI Norwegian Business School, Njål Foldnes (Norway) - University of Stavanger

9:30am **Pairwise Target Rotation for Factor Models**
» Justin Philip Tuazon (Philippines) - University of the Philippines - Diliman, Gia Mizrane Abubo (Philippines) - University of the Philippines - Diliman, Joemari Olea (Philippines) - University of the Philippines - Diliman

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**
» Mohammed Alsadaawi (Saudi Arabia) - Education & Training Evaluation Commission, Fathima Jaffari (Saudi Arabia) - Education and Training Evaluation Commission, 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**
» Nancy Alila (United States) - University of Georgia, Zhenqiu Lu (United States) - University of Georgia

10:15am **Refreshment Break**
B132, The Commons

10:30am **Panel Discussion**
Auditorium, Baekyang Hall
Chaired by: Ye Tong (United States)

10:30am **Advancing the Standards for Educational and Psychological Testing**
» Ye Tong (United States) - National Board of Medical Examiners, Qiwei He (United States) - Georgetown University, Matthias von Davier (United States) - TIMSS & PIRLS International Study Center at Boston College, Matthew Johnson (United States) - ETS

10:30am **AI, Validity, and Reliability**
B125, Ballroom, The Commons
Chaired by: Ji yeong Ahn (Korea, Republic of)

10:30am **Agentic Large Language Models for Multimodal Physics Item Generation and Automated Item Review**
» Moses Omopekunola (Russian Federation) - HSE University

10:45am **Evaluating the Performance of LLM in Processing Bilingual Data with Code Switching Through Experimental Design**
» Muge Liu (United States) - Newport High School, Johnny Zhang (United States) - University of Notre Dame

11am **Meta-Analysis of AI-Based Personnel Selection Tool Validity**
» Yuting Han (China) - Beijing Language and Culture University

11:15am **Evaluating AI/RAG-Assisted Instrument Adaptation: A Network-Based Validation Framework**
» Yuchen Zhang (Canada) - University of Toronto, Nanyu Luo (Canada) - University of Toronto, Zixuan Xia (Canada) - University of Toronto, Feng Ji (Canada) - University of Toronto

Continued from **Friday, 24 July**

11:30am **Structural Alignment and Interpretability of Sentence-Level MIL-Based Automated Essay Scoring**
» Ji yeong Ahn (Korea, Republic of) - Yonsei University, Ji Hoon Ryoo (Korea, Republic of) - Yonsei University

10:30am Longitudinal Methods

B126, Ballroom, The Commons
Chaired by: Satoshi Usami (Japan)

10:30am **Cycles in DSEM: Consequences of Ignorance and Misspecification**
» Hongyun Liu (China) - Beijing Normal University, Yilan Chen (China) - Beijing Normal Univeristy

10:45am **The Night Gap: Consequences for ESM Designs and Model Estimation**
» Lisa Peeters (Belgium) - KU Leuven, Wim Van Den Noortgate (Belgium) - KU Leuven, Ginette Lafit (Belgium) - KU Leuven

11am **Matrix Decomposition-Based Approach to Estimate Structural Equation Models: Focusing on the STARTS Model**
» Satoshi Usami (Japan) - The University of Tokyo

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**
» Wang Yifan (China) - South China Normal University, Zhonglin Wen (China) - South China Normal University

11:30am **Influential Factors in Continuous-Time Modeling for Panel Designs and Guidelines**
» Nuria Real-Brioso (Spain) - Universidad Autónoma de Madrid, Eduardo Estrada (Spain) - Universidad Autónoma de Madrid

10:30am Bayesian

B145, The Commons
Chaired by: Dandan Tang (United States)

10:30am **Data-Driven Priors for Bayesian IRT via Variational Autoencoders**
» Rehab AlHakmani (United Arab Emirates) - Emirates College for Advanced Education, Yanyan Sheng (United States) - The University of Chicago

10:45am **Joint Modeling of Reaction Times and Likert Responses: Parameter Robustness**
» David Lacko (Czechia) - Institute of Psychology, Czech Academy of Sciences, Tomáš Prošek (Czechia) - Institute of Psychology, Czech Academy of Sciences, Adam Dostál (Czechia) - Institute of Psychology, Czech Academy of Sciences, Anna Lázníčková (Czechia) - Institute of Psychology, Czech Academy of Sciences, Jiří Čeněk (Czechia) - Mendel University in Brno, Čeněk Šašinka (Czechia) - Masaryk University, Sylvie Graf (Czechia) - Institute of Psychology, Czech Academy of Sciences

11am **A Prediction-Oriented Specification Search for Discrete Bayesian Networks Incorporating Convex GSCA**
» Younyoung Choi (Korea, Republic of) - Ajou Univiersity, 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**
» Siwei Peng (China) - Zhejiang Normal University

11:30am **Variable Selection in Latent Growth Models with Incomplete Longitudinal Data**
» Dandan Tang (United States) - University of Virginia, Xin Tong (United States) - University of Virginia

10:30am Novel Applications

B146, The Commons
Chaired by: Man Kit Lei (United States)

10:30am **How Much Sample Size for Internal Moderators?**
» Man Kit Lei (United States) - University of Georgia

Continued from **Friday, 24 July**

10:45am **Predictive Validity of Strategic Personality Typology on Assessment Outcomes**
» Muchamad Salamun Abdul Rahman (Indonesia) - PT LPP Agro Nusantara, Dwi Ari Setyo Nugroho (Indonesia) - PT LPP Agro Nusantara

11am **Modelling Mixed-Data Cognitive Measures in the Canadian Longitudinal Study on Aging**
» Hao Luo (Canada) - University of Waterloo, Björn Andersson (Norway) - University of Oslo

11:15am **Invaluable: Hausman-Taylor Frameworks for Adjusting Assignment Bias in Teacher Evaluations**
» Qing Cai (United States) - University of California, Berkeley, Sophia Rabe-Hesketh (United States) - University of California, Berkeley, Himilcon Inciarte (United States) - University of California, Berkeley

11:30am **Testing Berry's Acculturation Framework: Researcher-Led Methods Versus Latent Variable Models**
» Ivelina Hristova (United Kingdom) - London School of Economics and Political Science

10:30am **Item Response Models**
B147, The Commons
Chaired by: Seongah Im (United States)

10:30am **Quantifying Ipsativity and Its Impact on Pairwise Comparison Data**
» Rodrigo Schames Kreitchmann (Spain) - Universidad Nacional de Educación a Distancia, Miguel A. Sorrel (Spain) - Universidad Autónoma de Madrid, Diego Graña (Spain) - Universidad Autónoma de Madrid, Francisco J. Abad (Spain) - Universidad Autónoma de Madrid

10:45am **A Dirichlet IRT Model with Person-Specific Dispersion for Confidence Testing**
» Atsushi Minamimoto (Japan) - The University of Tokyo, Kensuke Okada (Japan) - The University of Tokyo

11am **Extending the Residual DIF Framework to Mixed-Format Assessments**
» HyunJoo Jung (Korea, Republic of) - Inha University, Hwanggyu Lim (Korea, Republic of) - Inha University

11:15am **On the Asymmetry, Complexity, and Predicted Data Patterns of Item Response Theory Models**
» Hyejin Shim (United States) - University of Missouri, 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**
» Seongah Im (United States) - University of Hawaii at Manoa

10:30am **Symposium: Modeling Change and Stability**
Room 101, School of Business
Chaired by: Marie Annelise Blanchard (Belgium)

10:30am **Identifying Personalized State Dynamics Using the Multilevel Hidden Markov Model**
» Pepijn Vink (Netherlands) - Utrecht University, Emmeke Aarts (Netherlands) - Utrecht University

10:45am **The Shape of Decay: A Comparison of Discounting Models Within Affect Dynamics**
» Niels Vanhasbroeck (Netherlands) - University of Amsterdam

11am **Understanding Emotion Dynamics at the Emotional Event Level: Feature Extraction and Survival Analysis**
» Yuanyuan Ji (Belgium) - KU Leuven, Marieke Schreuder (Belgium) - KU Leuven, Ginette Lafit (Belgium) - KU Leuven, Eva Ceulemans (Belgium) - KU Leuven

11:15am **Lingering Over Time: How Do Authors Define and Model (Emotional) Inertia? A Scoping Review**
» Marie Annelise Blanchard (Belgium) - KU Leuven, Lisa Peeters (Belgium) - KU Leuven, Alexandre Heeren (Belgium) - UCLouvain, Eva Ceulemans (Belgium) - KU Leuven

Continued from **Friday, 24 July**

11:30am **Context and Dynamic Regression Models: A Systems Perspective**
» Sigert Ariens (Belgium) - KU Leuven, Niels Vanhasbroeck (Netherlands) - University of Amsterdam, Ginette Lafit (Belgium) - KU Leuven, Eva Ceulemans (Belgium) - KU Leuven

10:30am **Symposium: Measurement Invariance Assessment with Intensive Longitudinal Data**
Room 102, School of Business
Chaired by: Siwei Liu (United States)

10:30am **A Tutorial for Multi-Level Multi-Group Confirmatory Factor Analysis in Intensive Longitudinal Data**
» Sojin Yoon (Canada) - University of Alberta, Yue Wang (Canada) - University of Alberta, Yao Zheng (Canada) - University of Alberta

10:45am **Measurement Invariance in Intensive Longitudinal Data: Implementation of Current Methods**
» Hankyul Kim (United States) - University of California, Davis, Sebastian Castro-Alvarez (Netherlands) - University of Groningen, Siwei Liu (United States) - University of California, Davis

11am **Consequences of Measurement Non-Invariance in the Analysis of Intensive Longitudinal Data**
» Siwei Liu (United States) - University of California, Davis, Hankyul Kim (United States) - University of California, Davis, Sebastian Castro-Alvarez (Netherlands) - University of Groningen, Mark Lai (Macao) - University of Macau

11:15am **Measurement Invariance Testing Using Person-Mean Centering in Intensive Longitudinal Data**
» Eunsook Kim (United States) - University of South Florida, Chunhua Cao (United States) - University of Alabama, Yan Wang (United States) - University of Massachusetts Lowell

11:30am **Sensitivity to Measurement Noninvariance in Intensive Longitudinal Factor Models**
» Daniel Martin (United States) - Claremont Graduate University, Dakota Cintron (United States) - Claremont Graduate University

10:30am **Factor Analysis and Careless Responding**
Room 103, School of Business
Chaired by: Carl Falk (Canada)

10:30am **Beyond Magnitude: Cross-Loading Proportion Effects on Factor Retention Methods**
» Wenjuo Lo (United States) - University of Arkansas, Isis Martel (United States) - University of Arkansas, Mary Margaret Cunningham (United States) - Arkansas State University, Kristin Higgins (United States) - University of Arkansas

10:45am **An L1-Rotation Criterion for Exploratory Bifactor Analysis**
» Tamara Gaia Vasiljev (Italy) - University of Milano-Bicocca, Camilo Cardenas (United Kingdom) - London School of Economics, Yunxiao Chen (United Kingdom) - London School of Economics, Irini Moustaki (United Kingdom) - London School of Economics

11am **A Solution to the Long-Standing Problem of Nonpositive-Definite Latent Covariances**
» Marcos Jiménez (Netherlands) - Vrije Universiteit Amsterdam, Mauricio Garnier-Villarreal (Netherlands) - Vrije Universiteit Amsterdam, Vithor R. Franco (Brazil) - Universidade São Francisco

11:15am **Revisiting the Dimensionality of the Rosenberg Self-Esteem Scale Under Careless Responding**
» Tugay Kaçak (Türkiye) - Trakya University, Gül Güler (Türkiye) - Trakya University

11:30am **Unsupervised Simultaneous Detection of Random and Patterned Responses**
» Carl Falk (Canada) - McGill University, Wenshuo Li (Canada) - McGill University, Michael Ilagan (Canada) - University of Alberta

10:30am **Classification & Mixture Models**
S504, 5th Floor, Baekyang Hall
Chaired by: Christine DiStefano (United States)

Continued from **Friday, 24 July**

10:30am **Modeling Item Survival as a Partially Observed Multi-State Process in Large-Scale Assessment Programs**
» Allison Ames (United States) - National Board of Medical Examiners, Leslie Keng (United States) - National Board of Medical Examiners

10:45am **Diagnostic Accuracy Statistic Corrected for Class/Disease Prevalence**
» Rashid Almehrizi (Oman) - Sultan Qaboos University, Sabah Assi (Oman) - Dhofar University

11am **From Data-Driven to Data-Free: A Comparative Study of Generative AI and Optimization Methods for Scale Abbreviation**
» Yiling Cheng (Taiwan) - National Sun Yat-sen University, Mark Reckase (United States) - Michigan State University

11:15am **Evaluating and Combining Theories Across Disciplines: A Predictive Modeling Framework**
» Zino Brystowski (Netherlands) - Leiden University, Mark de Rooij (Netherlands) - Leiden University, Marjolein Fokkema (Netherlands) - Leiden University, Hilde Huizenga (Netherlands) - University of Amsterdam, Jalmar Teeuw (Netherlands) - Leiden University

11:30am **Using a Mixture of Continuous and Categorical Observed Variables with Confirmatory Factor Analysis**
» Christine DiStefano (United States) - University of South Carolina, Dexin Shi (United States) - University of South Carolina, Guyin Zhang (United States) - University of South Carolina

11:45am **Lunch (on your own)**
Local establishments

1:15pm **Presidential Address**
Auditorium, Baekyang Hall
Chaired by: Jimmy de la Torre (Hong Kong)

A Few of My Favorite Things: Diagnostic Models, Bayesian Computation, and Novel Latent Structures for Change
» Steven Culpepper (United States) - University of Illinois Urbana-Champaign

2:15pm **Member Meeting**
Auditorium, Baekyang Hall
Chaired by: Steven Culpepper (United States)

2:45pm **Award Ceremony**
Auditorium, Baekyang Hall
Chaired by: Steven Culpepper (United States)

3:45pm **Break**

6pm **Closing Banquet**
K-Turtle (2nd floor Convention Hall)