Seang-Hwane (Sean) Joo

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Division of Research and Development
Educational Testing Service
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2017 – 2018 **Statistical Consultant**

Drasgow Consulting Group
Evaluatecpersonality assessment using multidimensional

PUBLICATIONS

Journal Articles

- Joo, S. H., Lee, P., & Stark, S. (in press). Adaptivesting with the GGUMRANK multidimensional forced choice model: Comparison of pair, iplet, and tetrad soring Behavior Research Methods.
- Nye, C., Joo, S. H., Stark, S., & Zhang, B. (in press). Advancing exraduating IRTmodel data if indices in o

Pliakos, K., Joo, S. H., Park, J. Y., Cornillie, F., et/s, C., & Van den Noortgate, W20(19).
Integrating machine learning into item response theory for addressing the cold start problem in adaptive learning systems, Computers & Education, 137, 91-

- Lee, P., Joo, S. H., Stark, S., & Chernyshenko, O.S. (2017). Validity evidence hidimensional forced choice measures across different scoring approaches. Repentation at the European Conference on Psychological Assessment, Lisbon, Portugal
- Hicks, T., Kim, E. S, Joo, S. H., Choi, H., Ferron, J., & Kromrey, J (2017). Designmparable effect size for singlecase research: A Bayesian approach per presentation at the Modern Modeling Method annual meetin forms, CT.
- Joo, S. H., Wang, Y., & Ferron, J. M. (2017). Bias and precision of withind betweenseries effectestimates in the metanalysis of multiple baseline studies oster presentation at the American Educational Research Association annual meeting, San Antonio, TX.
- Ferron, J. M. &Joo, S. H. (2017). Waiting for baselines to stabilize: Consequences of response guided experimentation on medaalyses of singlease studies Poster presentation at the American Educational Research Association annual meeting, San Antonio, TX.
- Marn, T., MahoneyE., & Joo, S. H. (2017). Comparing black, whei, and biracial students' math achievement using propensity score matching: Data from HSLS. Roundtable presentation at the American Educational Research Association annual meeting, San Antonio, TX.
- Nye, C., Joo, S. H., & Stark, S. (2017). Advancing and evaluating IRT model data fit indices Symposium presentation at the Society of Industrial angla Ozational Psychology annual meeting, Orlando, F.L
- Stark, S., Joo, S. H., & Lee, P. (2017). Information functions for the GGRIANK multidimensionabreed-choice model: Comparison of pair, triplet, and tetrad measures Symposium presentation at the Society of Industrial and Organizational Psychology annual meeting, Orlando, FL
- Joo, S. H., Wang, Y., & Ferron, J. M. (2016). Coampson of within and betweenseries meta analysis for multiple baseline studiesper presentation at the Florida Educational Research Associatiomalal meeting, Lakeland, FL.
- Joo, S. H., Wang, Y., Montgomery, J., de Gil. P. R., Kim, E. S., Kromrey, J. (2016). Evaluating multiplemputation techniques for treating missing data in propensity score analysis exper presentation at the Modern Modeling Method annual meeting, Storrs, CT.
- Joo, S. H., Lee, P & Stark, S. (2016). Information functions of multidimensional forbeite IRT models, aper presentation at the National Council on Measurement in Education annual meeting, Washington, DC.
- Joo, S. H., & Ferron, J. M.(2016). Synthesizing singlease data with multilevel models: How best to handleomplex level error structures, Poster presentation at the American Educational Research Association annual meeting, Washington, DC.

- Joo, S. H. (2018). Parameter estimation and information function for the general hypertoxsline ideal point IRT modellnvited presentation althe Division of Research and Development, Educational Testing Service, Princeton, NJ.
- Joo, S. H. (2018). Robustness of the withand betweenseries estimators to nonormal multiple baseline studies: A Monte Carlo studyited presentation at the Methodology of Educational Sciences Research G(OMPO), KU Leuven Belgium.
- Joo, S. H. (2017). The overview of singlese research design studies and statistical analysis methodsnvited presentation at the Department of Psychology, Florida International University, Miami, FL.
- Thompson, C., Ferron, J. M., & Joo, S. H. (2016). Metaalysis of group and singlesse studies Workshop presentation at the Florida Educational Research Association annual meeting, Lakeland, FL.

RESEARCH GRANT

2019 – 2020 Measurement FrostReesearch Futing

Division of Research and Development

Educational Testing Service

Research Title: Psychometric Advances in statigne Assessmen

PROFESSIONAL SERVICES

Journal Reviewer: Applied Psychological Measurement

Assessment

Behavior Research Methods

Journal of Educational Measurement

Journal of Psychoeducational Assessment

Statistical Analysis and Data Mining

TECHNICAL SKILLS

Statistical Packages: R, SAS, Mplus, SPSS, HLM, Minitab

Programming: Ox, C++, Matlab, Maple

ACADEMIC HONORS/AWARDS

2019 SPOT Award

Division of Research and Development

Educational Testing Service

2016 - 2017Student Governm@olholarship Office of Graduate Studies University of South Florida 2010 Tharp Scholarship Department Mathematics and Statistics University of South Florida 2008 - 2009International Advocate Scholarship International Student Association Pittsburg State University 2008 - 2009Department Scholarship **Department of Mathematics** Pittsburg State University

PROFESSIONAL ORGANIZATIONS

American Educational Research Association (AERA)
National Council on Measurement in Education (NCME)
Florida Educational Research Association (FERA)
International Meeting Psychometric Societ(MPS)
Society of Industrial and Organizational Psycholog(OP)