# Seang-Hwane (Sean) Joo

Associate Research Scientist Division of Research and Development Educational Testing Service E221 McBride Hall, 660 Rosedale Road, Princeton, NJ 08541 Email: sjoosaran@

#### 2017 – 2018 **Statistical Consultant** Drasgow Consulting Group Evaluatedpersonality assessment using multidimensional -

## Journal Articles

- Joo, S. H., Lee, P., & Stark, S. (in press). Adaptivesting with the GGUMRANK multidimensional forced choice model: Comparison of pair, iplet, and etrad soring. Behavior Research Methods.
- Nye, C., Joo, S. H., Stark, S., & Zhang, B. (in press). Advancing exraduating IRTmodel datait 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 himimensional 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 sizes for singlecase research: A Bayesian approacher presentation at the Modern Modeling Method annual meeting forrs, CT.
- Joo, S. H., Wang, Y., & Ferron, J. M. (2017). Bias and precision of withind betweenseries effectestimates in the metanalysis of multiple baseline studie Soster 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 metaalyses of singlease studies Poster presentation at the American Educational Research Association annual meeting, San Antonio, TX.
- Marn, T., Mahoney, E., & Joo, S. H. (2017). Comparing black, when 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@zational Psychology annual meeting, Orlando, FL
- 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). Composition of within and betweenseries meta analysis for multiple baseline studiesper presentation at the Florida Educational Research Association and meeting, Lakeland, FL.
- Joo, S. H., Wang, Y., Montgomery, J., de Gil. P. R., Kim, E. S., Kromrey, J. (2016). Evaluating multiple-imputation techniques for treating missing data in propensity score analysis
  Paper presentation at the Modern Modeling Method annual meeting, Storrs, CT.
- Joo, S. H., Lee, P & Stark, S. (2016). Information functions of multidimensional forbeide 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 hypedooslince ideal point IRT modelInvited presentation althe Division of Research and Development, Educational Testing Service, Princeton, NJ.
- Joo, S. H. (2018). Robustness of the withand betweenseries estimators to nenormal multiple baseline studies: A Monte Carlo sţudyited presentation at the Methodology of Educational Sciences Research G(OMPO), KU Leuven Belgium.
- Joo, S. H. (2017). The overview of singbase research design studies and statistical analysis methodshvited presentation at the Department of Psychology, Florida International University, Miami, FL.
- Thompson, C., Ferron, J. M., & Joo, S. H. (2016). Metaalysis of group and singlease studies Workshop presentation at the Florida Educational Research Association annual meeting, Lakeland, FL.

### **RESEARCH GRANT**

2019 – 2020 Measurement Fro**stRe**search Fu**di**ng Division of Research and Development Educational Testing Service Research Title: Psychometric Advances in **scartge**Assessmesn

### **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 – 2017	Student Governm <b>Sol</b> tolarship Office of Graduate Studies University of South Florida
2010	Tharp Scholarship Departm <b>enf</b> tMathematics and Statistics University of South Florida
2008 – 2009	International Advocate Scholarship International Student Association Pittsburg State University
2008 – 2009	Department 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 of Psychometric Societ(MPS) Society of Industrial and Organizational Psycholog(OP)