

**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**

Dragow Consulting Group

- Evaluate personality assessment using multidimensional

## **PUBLICATIONS**

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### **Journal Articles**

**Joo, S. H.,** Lee, P., & Stark, S. (in press). Adaptive testing with the GGUMRANK multidimensional forced choice model: Comparison of pair, triplet, and tetrad scoring. Behavior Research Methods.

Nye, C., **Joo, S. H.,** Stark, S., & Zhang, B. (in press). Advancing and evaluating IRT model data fit indices in o

Pliakos, K., **Joo, S. H.**, Park, J. Y., Cornillie, F., ~~Wu, C.~~, & Van den Noortgate, W. (2019). Integrating machine learning into item response theory for addressing the cold start problem in adaptive learning systems, *Computers & Education*, 137, 91-



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- Lee, P., Joo, S. H., Stark, S., & Chernyshenko, O.S. (2017). Validity evidence for multidimensional forced choice measures across different scoring approaches. Paper presentation at the European Conference on Psychological Assessment, Lisbon, Portugal
- Hicks, T., Kim, E. S., Joo, S. H., Choi, H., Ferron, J., & Kromrey, J (2017). Design comparable effect sizes for single case research: A Bayesian approach. Paper presentation at the Modern Modeling Method annual meeting, Storrs, CT.
- Joo, S. H., Wang, Y., & Ferron, J. M. (2017). Bias and precision of within and between series effect estimates in the meta-analysis of multiple baseline studies. Poster 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 meta-analyses of single case studies. Poster presentation at the American Educational Research Association annual meeting, San Antonio, TX.
- Marn, T., Mahoney, E., & Joo, S. H. (2017). Comparing black, white, 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 and Organizational Psychology annual meeting, Orlando, FL
- Stark, S., Joo, S. H., & Lee, P. (2017). Information functions for the G-RANK multidimensional forced-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). Comparison of within and between series meta analysis for multiple baseline studies. Paper presentation at the Florida Educational Research Association annual 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 forced-choice IRT models. Paper presentation at the National Council on Measurement in Education annual meeting, Washington, DC.
- Joo, S. H., & Ferron, J. M. (2016). Synthesizing single case data with multilevel models: How best to handle complex level error structures. Poster presentation at the American Educational Research Association annual meeting, Washington, DC.







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2016 – 2017	Student Government Scholarship Office of Graduate Studies University of South Florida
2010	Tharp Scholarship Department of Mathematics 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**

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American Educational Research Association (AERA)  
 National Council on Measurement in Education (NCME)  
 Florida Educational Research Association (FERA)  
 International Meeting of Psychometric Societies (IMPS)  
 Society of Industrial and Organizational Psychology (SIOP)