

Jue Wang, Ph.D.

August 31, 2019

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Coral Gables, FL 33146
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ACADEMIC POSITION

University of Miami August 2018-Present
Assistant Professor, Research, Measurement, & Evaluation Program,
Department of Educational and Psychological Studies

EDUCATION

University of Georgia August 2018
Ph.D. in Quantitative Methodology, Department of Educational Psychology
Dissertation Title: Examining Rating Accuracy using Cross-Classification Multilevel Item
Response Models
Advisors: Dr. Zhenqiu Lu and Dr. George Engelhard, Jr.

University of Georgia December 2017
M.S. in Statistics, Department of Statistics

University of Georgia August 2014
M.A. in Quantitative Methodology, Department of Educational Psychology
Thesis Title: The Sensitivity of Hierarchical Linear Models to Outliers
Advisor: Dr. Zhenqiu Lu

Hebei Normal University, China June 2012
B.S. in Psychology, Department of Psychology
Thesis: The Relationship between Paternal Parenting Styles and Child's Personality
Development

RESEARCH INTERESTS

Latent variable modeling, including Rasch models and unfolding IRT models
Hierarchical linear modeling and cross-classification multilevel IRT models
Rater accuracy and judgment in rater-mediated assessments

PEER-REVIEWED PUBLICATIONS

Journal Articles

- Wang, J. & Engelhard, G. (2019). Conceptualizing Rater Judgments and Rating Processes for Rater-Mediated Assessments. *Journal of Educational Measurement*. <https://doi.org/10.1111/jedm.12226>.
- Wang, J. & Engelhard, G. (2019). Exploring the Impersonal Judgments and Personal Preferences of Raters in Rater-Mediated Assessments with Unfolding Models. *Educational and Psychological Measurement*, 79(4), 773-795.
- Engelhard, G., Wang, J., & Wind, S. A. (2018). A tale of two models: Psychometric and cognitive perspectives on rater-mediated assessments using accuracy ratings. *Psychological Test and Assessment Modeling*, 60(1), 33-52.
- Wang, J. & Engelhard, G. (2017). Using a multifocal lens model and Rasch measurement theory to evaluate rating quality in writing assessments. *Pensamiento Educativo: Journal of Latin-American Educational Research, Special Issue on Applied Educational Measurement*, 54(2), 1-16.
- Wang, J., Engelhard, G., Raczynski, K., Song, T., & Wolfe, E. W. (2017). Evaluating rater accuracy and perception for integrated writing assessments using a mixed-methods approach. *Assessing Writing*, 33, 36-47.
- Wang, J. & Engelhard, G. (2016). The feasibility of using causal indicators in educational measurement. *Measurement: Interdisciplinary Research and Perspectives*, 14(3), 114-118.
- Wang, J., Engelhard, G., & Wolfe, E. W. (2016). Evaluating rater accuracy in rater-mediated assessments using an unfolding model. *Educational and Psychological Measurement*, 76(6), 1005-1025.
- Wang, J., Engelhard, G., & Lu, Z. (2014). Clarifying the conceptualization of indicators within different models. *Measurement: Interdisciplinary Research and Perspectives*, 12(4), 155-159.
- Engelhard, G. & Wang, J. (2014). Alternative measurement paradigms for measuring executive functions: SEM (formative and reflective models) and IRT (Rasch models). *Measurement: Interdisciplinary Research and Perspectives*, 12(3), 102-108.

Conference Proceedings

- Kim, S. H., Kwak, M., Bian, M., Feldberg, Z., Henry, T., Lee, J., Olmez, I. B., Shen, Y., Tan, Y., Tanaka, V., Wang, J., Xu, J., & Cohen, A. S. (2019). A Taxonomy of Item Response Models in Psychometrika. In *Wiberg M., Culpepper S., Janssen R., González J., Molenaar D. (eds) Quantitative Psychology*. IMPS 2017. Springer Proceedings in Mathematics & Statistics, vol 265. Springer, Cham.
- Wang, J. & Engelhard, G. (2016). A hyperbolic cosine unfolding model for evaluating rater accuracy in writing assessments. In *Quan Zhang (Ed.), Pacific Rim Objective*

Measurement Symposium (PROMS) 2015 Conference Proceedings (pp. 183-197).
Berlin: Springer-Verlag.

Wang J., Lu Z., Cohen A.S. (2015) The Sensitivity Analysis of Two-Level Hierarchical Linear Models to Outliers. *In van der Ark L., Bolt D., Wang WC., Douglas J., Chow SM. (eds) Quantitative Psychology Research*. Springer Proceedings in Mathematics & Statistics, vol 140. Springer, Cham.

Research Notes

Engelhard, G. & Wang, J. (2015). Unfolding Rater Accuracy in Performance Assessments. *Rasch Measurement Transactions*, 28(4), 1489-1491.

Wang, J., & Engelhard, G. (2014). A pairwise algorithm in R for rater-mediated assessments. *Rasch Measurement Transactions*, 28(1), 1457-1459.

PRESENTATIONS

Engelhard, G. & Wang, J. (July 2019). *Developing a concept map for Rasch measurement theory*. Paper to be presented at the International Meeting of Psychometric Society (IMPS) in Santiago, Chile.

Wang, J., Tanaka, V., Engelhard, G., & Rabbitt, M. P. (April 2019). *Examining measurement invariance with multilevel behavioral Rasch models: Does gender affect international food insecurity measures?* Paper to be presented at the annual meeting of the American Educational Research Association (AERA) in Toronto, Canada.

Wang, J., Lu, Z., Engelhard, G., & Cohen, A. S. (April 2019). *Examining Rating Designs with Cross-Classification Multilevel Rasch Models*. Paper to be presented at the annual meeting of the National Council on Measurement in Education (NCME) in Toronto, Canada.

Xiong, J., Wang, J., Cohen, A. S., & Engelhard, G. (July 2018). *The Calibration of Multiple-Choice and Constructed-Response Items in English & Language Arts Assessments*. Paper presented at the Pacific Rim Objective Measurement Society (PROMS) in Shanghai, China.

Turner, K., Engelhard, G. & Wang, J. (April 2018). *Using functional data analysis to analyze unfolding models*. Paper presented at the annual meeting of the American Educational Research Association (AERA) in New York City, NY.

Wang, J., & Engelhard, G. (April 2018). *Using Unfolding Models to Evaluate Ratings in Rater-Mediated Assessments*. Paper presented at the International Objective Measurement Workshop (IOMW) in New York City, NY.

Wang, J., Lu, Z., & Engelhard, G. (July 2017). *Evaluating rater judgments with cross-classified multilevel IRT models*. Paper presented at the International Meeting of Psychometric Society (IMPS) in Zürich, Switzerland.

Wang, J. & Engelhard, G. (April 2017). *Interpreting the underlying construct in unfolding models for rater-mediated assessments*. Paper presented at the annual meeting of the American Educational Research Association (AERA) in San Antonio, TX.

- Wang, J., Engelhard, G., Raczynski, K., Song, T., & Wolfe, E. W. (April 2016). *Evaluating rater accuracy and cognition for document-based literacy assessments using a mixed-methods approach*. Paper presented at the American Educational Research Association (AERA) in Washington, D.C.
- Wang, J. & Engelhard, G. (April 2016). *Using Lens models to examine rater accuracy*. Paper presented at the International Objective Measurement Workshop (IOMW) in Washington, D.C.
- Wang, J. & Engelhard, G. (August 2015). *A Hyperbolic Cosine Unfolding Model for Evaluating Rater Accuracy in Writing Assessments*. Paper presented at the Pacific Rim Objective Measurement Society (PROMS) in Fukuoka, Japan.
- Lu, Z. & Wang, J. (July 2015). *Evaluating t-distribution and Sandwich Robust Methods for Level-1 Outliers in Hierarchical Linear Models*. Paper presented at the International Meeting of Psychometric Society (IMPS) in Beijing, China.
- Wang, J. & Lu, Z. (April 2015). *Comparing t and sandwich robust statistical methods in coping with level-1 outliers for hierarchical linear models*. Paper presented at the American Educational Research Association (AERA) in Chicago, IL.
- Wang, J., Engelhard, G., & Wolfe, E. W. (April 2015). *Evaluating rater accuracy with a hyperbolic cosine unfolding model*. Paper presented at the American Educational Research Association (AERA) in Chicago, IL.
- Wang, J., Lu, Z., & Cohen, A. S. (July 2014). *The sensitivity of hierarchical linear models to outliers*. Paper presented at the International Meeting of Psychometric Society (IMPS) in Madison, WI.
- Wang, J. & Engelhard, G. (April 2014). *Everyone's Rasch measurement analyzer (ERMA): an R package for Rasch measurement models*. Paper presented at the International Objective Measurement Workshop (IOMW) in Philadelphia, PA.

TEACHING EXPERIENCE

The University of Miami

Research, Measurement, & Evaluation (RME) Program

- **Teaching Specialization (courses taught)**

- Instructor*

- EPS 702 Quantitative analysis II Fall 2018, Spring 2019
 - EPS 709 Introduction to Multilevel Modeling Spring 2019

- **Thesis and Dissertation Advising**

- Committee Member – Doctoral Dissertation
 1. Lang, Samantha Frances (Counseling Psychology) – In progress
 2. Park, Sung Eun (Research, Measurement, & Evaluation) – In progress
 3. Salman Alawadi (Research, Measurement, & Evaluation) – In progress
 - Committee Member – Master Thesis
 1. Ahn, Amy (Psychology) – In progress

2. Bailey, Jhonelle (Psychology) – In progress

Statistical Supporting Unit (STATS-U)

Dunspaugh-Dalton Community and Educational Well-Being Research Center (CEW) at the School of Education and Human Development

- Workshop: Development of Measurement Instruments October 26, 2018

Pacific Rim Objective Measurement Society (PROMS) in Fukuoka, Japan August 2015

Graduate Assistant

- Workshop: *Invariant Measurement with Raters and Rating Scales*

The University of Georgia

Quantitative Methodology Program

- *Co-instructor*
 - ERS7600 Researcher-Constructing Measures Spring 2018
 - ERS8790 Rasch Measurement Theory Spring 2017
- *Teaching Assistant*
 - ERS8320 Applied Correlation and Regression Spring 2016, Fall 2015, & Fall 2013
 - ERS6600 Educational Assessment Spring 2015
 - ERS6200 Research Methods in Education Fall 2014

HONORS AND AWARDS

QM Outstanding Student Award, Department of Educational Psychology, University of Georgia 2018

Foreign Travel Assistance Award, Office of Research and Office of Internal Grants & Awards, University of Georgia 2017

Owen-Scott Doctoral Research Award, Department of Educational Psychology, University of Georgia 2016

IOMW Graduate Student Travel Award, International Objective Measurement Workshop (IOMW) in Washington, D.C. 2016

Graduate Student Research Poster Award, Graduate Student & Faculty Research Conference in College of Education, University of Georgia 2015

SERVICES IN COMMUNITY AND PROFESSIONAL ORGANIZATIONS

Manuscript Reviewer

- Applied Psychological Measurement
- Journal of Educational and Behavioral Statistics
- International Journal of Testing

- Language Testing
- Assessing Writing
- TESOL Quarterly
- Sociological Methods and Research
- Measurement in Physical Education and Exercise Science

Member of Professional Associations

- AERA Division D (Measurement & Research Methodology)
- NCME
- Psychometric Society
- American Psychology Association, Division 15 (Educational Psychology)

Editorial Assistant (2016-2018)

- Journal of Educational Measurement

Statistical Consultant (2012-2016)

- Academic Computing Center, University of Georgia