Jiavi Deng

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Education

Ph. D Student | University of Minnesota

Quantitative Methods in Education

Advisor: Joseph A. Rios

Minneapolis, MN | Expected May 2024

Master | University of Kansas

Educational Psychology and Research (Track: Research, Evaluation, Measurement & Statistics)

Advisor: Bruce Frey Lawrence, KS | May 2020

B.S. (Honors) | Beijing Normal University-Hong Kong Baptist University United International College

Applied Psychology

Research Advisor: Yilung Kuo Zhuhai, China | June 2018

Employment Experience Psychometric Intern/Research Associate Human Resource Research Organization Louisville, KY	05/2022-08/2022
Graduate Instructor Department of Educational Psychology, University of Minnesota	01/2022-Present
Graduate Research Assistant Department of Educational Psychology, University of Minnesota	09/2020-Present
Graduate Teaching Assistant Department of Educational Psychology, University of Minnesota	09/2020-12/2021
Graduate Teaching Assistant Department of Educational Psychology, University of Kansas	08/2019-05/2020
Education and Evaluation Assistant Center for East Asian Studies, University of Kansas	03/2019-08/2019

Publications

A. Peer Reviewed Journal Articles

- Deng, J., & Rios, J. A., (accepted). Investigating the effect of differential rapid guessing on population invariance in equating. Applied Psychological Measurement.
- Rios, J. A., **Deng, J.**, & Ihlenfeldt, S. D. (in press). To What degree does rapid guessing underestimate test performance? A Meta-analytic Investigation. Educational Assessment.
- Rios, J. A., & **Deng, J.** (2022). Quantifying the basing effect of rapid guessing on reliability estimates: A simulation and meta-analytic investigation. Applied Psychological Measurement, 46(1), 40-52.
- Rios, J. A., & Deng, J. (2021). Does the choice of response time threshold procedure matter? Implications for identifying rapid guessing behavior. Large-scale Assessments in Education, 9(18), 1-25.

Emler, T. E., Zhao, Y., **Deng, J.**, Yin, D., & Wang, Y. (2019). Side effects of large-scale assessments in education. *ECNU Review of Education*, 2(3), 279-296.

B. Manuscript Currently under Revision/Peer-review

Rios, J. A., Abulela, M. M. A., & **Deng, J**. (2022). A review of rapid guessing scoring approaches in low-stakes multiple-choice assessments. Manuscript submitted for publication to Applied Psychological Measurement.

C. Manuscript in Preparation

- Rios, J. A., & **Deng, J**. (2022). A comparison of response-threshold scoring procedures in mitigating bias from rapid guessing. Manuscript in preparation.
- Ihlenfeldt, S.D., & **Deng**, **J.** (2022). Evaluating rapid guessing response patterns on multistage assessment: A simulation study. Manuscript in preparation.

Presentation

- **Deng, J.**, & Rios, J. A., (2022, April 9). *Investigating the effect of differential rapid guessing on population invariance in equating* [Paper presentation]. National Council on Measurement in Education 2022 Annual Meeting, virtual.
- **Deng, J.**, Ihlenfeldt, S.D., & Rios. J. A. (2022, April 22-25). *To what degree does rapid guessing distort test performance? A meta-analytic investigation* [Paper presentation]. National Council on Measurement in Education 2022 Annual Meeting., San Diego, CA.
- Ihlenfeldt, S.D., **Deng, J.** (2022). Evaluating rapid guessing response patterns on a multistage assessment: A simulation study [Paper presentation]. National Council on Measurement in Education 2022 Annual Meeting., San Diego, CA.
- **Deng, J.**, & Rios, J. A., (2022, Feb. 4). *Investigating the effect of differential rapid guessing on population invariance in equating* [Paper presentation]. Department of Educational Psychology Graduate Student Research Day, Minneapolis, MN.
- **Deng, J.,** & Rios, J. A. (2021). *Quantifying the Biasing Effect of Rapid Guessing on Estimates of Coefficient Alpha* [Poster presentation]. College of Education and Human Development Research Day, Minneapolis, MN, United States.
- **Deng, J.**, & Rios, J. A. (2021, June 8-11). *Does the choice of response time threshold procedure matter? Implications for identifying rapid guessing behavior* [Paper presentation]. National Council on Measurement in Education 2021 Annual Meeting, virtual.
- **Deng, J.** (2021, June 8-11). The relationship between differential distractor functioning (DDF) and differential item Functioning (DIF): If DDF Occurs, Must DIF Occur? [Paper Presentation]. National Council on Measurement in Education 2021 Annual Meeting, virtual.
- Poggio, J., Akin-Tas, M., **Deng, J.** & Esiaka, C. (2020, Apr 17 21) *The nature of country performance differences via distractor analyses: Examining comparability of international assessments outcomes* [Poster Session]. American Educational Research Association Annual Meeting San Francisco, CA, U.S.
- **Deng, J.** (2019, June 6-9). *Impact of isolated word and contextual training on reading fluency and comprehension for chinese children* [Paper presentation]. Chinese American Educational Research and Development Association (CAERDA) International Conference, Xi'an, China.

Instructor

University of Minnesota

Award & Honor Hauge Graduate Fellowship University of Minnesota	2022-2023	
Jack Merwin Graduate Assistantship University of Minnesota	2021-2022	
IRC Mini Research Grant University of Minnesota	2020-2021	
Graduate Assistantship Award University of Minnesota	2020-2024	
Scholarship of Education Recognition School University of Kansas	2019-2020	
Current Membership in Professional Organization American Educational Research Association (AERA)	2019-Present	
- Division D: Measurement and Research Methodology National Council on Measurement in Education (NCME)	2018-Present	
Professional Service Co-Director, In-Progress Research Gala (IPRG) for the Division D in AERA - Lead the IPRG program	03/2020-Present	
 Dead the IPRG program Organize IPRG monthly meeting Implement the IPRG at the AERA Annual Meeting Student Multicultural Affairs Committee Representative, University of Kansas Attend monthly department meeting 	10/2019-05/2020	

Research Interests

- Test-taking Effort and Rapid Guessing Responses
- Process Data Analysis in Educational Assessments
- (Mixture) Item Response Models
- Data Visualization in Education
- Computer Adaptive Test Research
- Population Invariance Issues in Equating and Linking
- Response Invariance of Selected-response Items Between Subgroups

Research and Computer Skills

- Simulation studies (Advanced)
- Meta-analysis (Advanced)
- R (Advanced)
- SPSS (Advanced)
- HLM (Intermediate)
- IRTPRO (Intermediate)

• Microsoft Office (Advanced)

LanguageChinese (Native speaker)
English (Proficient)