

Fan Pan

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EDUCATION

University of South Carolina Columbia, South Carolina

Ph.D. of Educational Research and Measurement, May 2020

Master of Applied Statistics, May 2019

Hebei Medical University Shijiazhuang, China

Clinical Medicine, June 2012

RELEVANT COURSEWORK

Educational Statistics I, II
Hierarchical Linear Modeling
Statistical Programming I, II (SAS, R)
Design and Analysis of Surveys
Program Evaluation
Qualitative Research in Education
Constructing Cognitive Instruments
Design and Analysis of Experiments
Technical Aspects of Tests and Measurements
Structural Equation Modeling (three courses)
Correlational and Multivariate Methods
Item Response Theory
Applied Longitudinal Data Analysis
Big Data Analytics
Nonparametric Statistics
Introduction to Statistical Theory I, II

PROFESSIONAL EXPERIENCE

Instructor

Department of Chemistry and Biochemistry, University of South Carolina
Columbia, SC (August 2012 to May 2013)

Organic Chemistry Lab (undergraduate level)

Columbia Chinese School, Columbia, SC (August 2013 to Now)

Research Assistant

Department of Educational Studies, University of South Carolina
Columbia, SC (August 2013 to December 2015)

- ◆ Research project: *Validation of the Behavioral and Emotional Screening System for Early Identification for Social-Emotional and Behavioral Problems in Preschoolers* funded by the Institute of Education Sciences
- ◆ Helped teachers understand and interpret correctly item statistics and exam data
- ◆ Provided assessment consultation services for teachers
- ◆ Conducted higher education research
- ◆ Conducted test development and psychometric analyses (e.g., item analysis, equating, distractor analysis)

Research Assistant

Children Development Research Center, Columbia, SC (August 2014 to Now)

- ◆ Performed psychometric analyses, consulted with other psychometricians and investigate practical issues related to item performance and score interpretation
- ◆ Manage the survey database
 - SAS Macro Writing
- ◆ Develop reports for Department of Social Service
 - Conducted independent and collaborative research on psychometric issues and complete data analysis
- ◆ Participate in report development for program activities

Research Assistant

Research, Evaluation and Measurement Center, Columbia, SC (May 2017 to August 2018)

- ◆ Plan the results of standard setting meetings and achievement level description validation meetings
- ◆ Conduct and review research and psychometric processes
- ◆ Conduct item classification analysis (IRT and CTT analyses) for validation research studies

EVALUATION REPORTS

Googe, H., & **Pan, F.** *CARA's Kit Annual Report*: April 2015.

Googe, H., & **Pan, F.** *CARA's Kit Annual Report*: Preparation date: May 2016.

Pan, F. & Rao, V. *Licensing Deficiency Annual Report*. Preparation date: October 2014.

Pan, F. *Licensing Deficiency Annual Report*. Preparation date: October 2015.

Pan, F. & Rao, V. *Deficiency Compliance Twelve Month Report*: September 2016.

Pan, F. & Rao, V. *Deficiency Compliance Six Month Report*: September 2016.

Pan, F. & Rao, V. *2016 TAP Individual Report*. Preparation date: November 2016.

Pan, F. & Rao, V. *2015 TAP Individual Report*. Preparation date: November 2015.

Pan, F. & Rao, V. *2016 Workload Analysis Report*. Preparation date: August 2015.

Rao, V., & **Pan, F.** *2014 Review DSS Alternative Spring Break: 2015 Review.* Preparation date: May 2015.

CONFERENCE PRESENTATIONS

Pan, F., Wang, W., & Liu, J. *Building a Nested Range Bar Chart with SAS® Graph Template Language.* SESUG 2017: The Proceedings of the SouthEast SAS Users Group, Cary, North Carolina, 2016.

Pan, F., Liu, J., & DiStefano, C. *Using the Integrative Data Analysis Framework to Study Child Development.* MMM 2017: Modern Modeling Methods conference, Connecticut, 2017.

Pan, F., & Liu, J. *A SAS Macro for Automated Model Selection Involving PROC GLIMMIX and PROC MIXED.* SESUG 2016: The Proceedings of the SouthEast SAS Users Group, Bethesda, Maryland, 2016.

Liu, J., Burgess, Y., DiStefano, C., **Pan, F.**, & Jiang N. (2016, April). *Validating Pediatric Symptoms Checklist – 17 in a new population.* Paper presented at the annual conference of the American Educational Research Association, Washington, DC.

Liu, J., & **Pan, F.** *A SAS Macro to investigate statistical power in meta-analysis.* SESUG 2015: The Proceedings of the SouthEast SAS Users Group, Savannah, Georgia, 2015.

Liu, J., & **Pan, F.**, Burgess, Y., & DiStefano, C. *Behavioral Trajectories: An Analysis of Growth Patterns and Predictors of Changes from Preschool to Grade One.* SESUG 2015: The Proceedings of the SouthEast SAS Users Group, Savannah, Georgia, 2015.

Pan, F., Burgess, Y., Liu, J., & DiStefano, C. *PROC REG: A SAS Macro to Determine Cut Score for a Universal Pre- School Maladaptive Screener.* SESUG 2015: The Proceedings of the SouthEast SAS Users Group, Savannah, Georgia, 2015.

Pan, F., Wang, W., Liu, J., Knopf, H.T., Rao, V., Tester, D.M., (2015, July). *A Multilevel Investigation of Factors Influencing Licensing Deficiencies in South Carolina.* Paper presented at the annual conference of the Psychometric Society, Beijing, China.

Greer, F., DiStefano, C., Jiang, N., & Liu, J., McGuire, L., **Pan, F.** (2015, February). *Universal screening of social/emotional behavior: Investigations in the early childhood environment.* Paper presented at the annual conference of the South Carolina Educators for the Practical Use of Research, Columbia, South Carolina.

Greer, F., DiStefano, C., Liu, J., **Pan, F.**, & Sherlock, P. (2014, February). *Response to Intervention in the schools: Interventions in early childhood environment.* Paper presented at the annual conference of the South Carolina Educators for the Practical Use of Research, Columbia, South Carolina.

SPECIAL SKILLS

Proficient in SPSS for data management and statistical analysis
Knowledgeable with SAS (SAS Certified Base Programmer; SAS Certified Advanced Programmer) and R statistical packages
Experience with LISREL, M-plus, PARSCALE, and WINSTEPS
Excellent knowledge of Microsoft Word, Excel, and Power Point
Fluent in written and conversational Chinese (Mandarin) and English

HONORS

The Outstanding Graduate (Top 5%) awarded by the Hebei University
Top Grade Scholarship (Top 5%) awarded by the Hebei University, 2009 to 2012
2015 and 2016 Travel Grant from the Graduate School of University of South Carolina to attend the annual convention of the Psychometric Society , 2015 (\$800 each)
2015 Graduate Student Award of American Educational Research Association Special Interest Group on Survey Research in Education (\$300)
2016 Southeast SAS User Group Student Grant
2017 Southeast SAS User Group Student Grant