

Yiqin Pan

1221 SW 5th Ave, Gainesville, FL 32601 ◊ 1(608)236-3211 ◊ yiqinpan@ufl.edu

EDUCATION

University of Wisconsin-Madison, Madison, Wisconsin

Ph.D. in Quantitative Methods in Education 08/2017-07/2022

M.S. in Computer Science 08/2017-06/2019

Minor in Statistics 08/2017-12/2018

Beijing Normal University, Beijing, China

M.S. in Psychometrics and Psychological Statistics 09/2014-07/2017

B.S. in Psychology 09/2010-07/2014

SELECTED WORKING EXPERIENCE

Assistant Professor of Research and Evaluation Methodology 08/2022-Present

*School of Human Development and Organizational Studies in Education, College of Education,
University of Florida Gainesville, Florida*

Psychometrician Intern 06/2021-08/2021

Educational Testing Service (ETS) Princeton, New Jersey

Psychometrician Intern 06/2019-09/2019

Graduate Management Admission Council (GMAC) Reston, Virginia

SELECTED PAPERS/CONFERENCE PRESENTATION

Pan, Y., Livne, O., Wollack, J., & Sinharay, S. An Auto-Encoder-Based Recommendation System for Preventing Preknowledge in Computerized Adaptive Testing. (In Preparation)

Pan, Y., & Wollack, J. A Neural Network for Checking the Existence of Preknowledge in Testing Data. (In Preparation)

Pan, Y., & Wollack, J. (2021). An Ensemble-Unsupervised-Learning-Based Approach for the Simultaneous Detection of Preknowledge in Examinees and Items when Both are Unknown. Retrieved from psyarxiv.com/jtr78

Pan, Y., & Wollack, J. (2021). A Machine-Learning-Based Approach for Detecting Item Preknowledge in Computerized Adaptive Testing. Retrieved from psyarxiv.com/hk35a

Pan, Y., & Choe, E. M. (2021). An Autoencoder-Based Response Time Model and Its Application in Anomaly Detection. <https://doi.org/10.31234/osf.io/mw2y7>

Pan, Y., & Wollack, J. (2021). An Unsupervised-Learning-Based Approach to Compromised Items Detection. *Journal of Educational Measurement*, 58(3), 413-433.

Pan, Y., & Wollack, J. (2021). An Iterative Unsupervised-learning-based Approach for Detecting Item Preknowledge in Linear Tests. Paper presented at *the 2021 Annual Conference of National Council on Measurement in Education*, San Francisco, California.

Pan, Y., & Choe, E. (2021). A Weak Supervised Learning Approach for Detecting Item Preknowledge in Computerized Adaptive Testing. Paper presented at *the 2021 Annual Conference of National Council on Measurement in Education*, San Francisco, California.

Pan, Y., & Choe, E. (2021). A Machine Learning Approach to Modeling Response Times in Computerized Adaptive Testing. Paper presented at *the 2021 Annual Conference of National Council on Measurement in Education*, San Francisco, California.

- Pan, Y.**, Lee, S. & Han, K. (2021). Understanding Different Ways to Compute Measurement Errors and Score Reliability for Adaptive Tests. Paper presented at *the 2021 Annual Conference of National Council on Measurement in Education*, San Francisco, California.
- Bolt D., Kim, N., Wollack, J., **Pan, Y.**, Eckerly, C. (2020). & Sowles J. A Psychometric Model for Discrete-Option Multiple-Choice (DOMC) Items. *Applied Psychological Measurement*, 44(1), 33-48.
- Huang, M., **Pan, Y.**, & Luo, F. (2020). Two-Stage Cheating Detection Method Based on Information of Multiple Choice and Constructive Question. *Journal of Psychological Science*, (1), 75-80. (In Chinese)
- Pan, Y.**, & Wollack, J. (2019). An Unsupervised-Learning-Based Approach for Detecting Compromised Items in Linear Tests. Paper presented at *the 8th Annual Conference on Test Security*, Miami, Florida.
- Pan, Y.**, & Wollack, J. (2019). An Iterative Unsupervised-learning-based Approach for Detecting Item Preknowledge. Paper presented at *the 8th Annual Meeting of the Ideas in Testing Research Seminar*, Chicago, Illinois.
- Ren, Y., **Pan, Y.**, & Luo, F. (2018) Using the Responses in Impression Management Scale to Identify Fakers. *Psychological Exploration*, 03(1): 236-240. (In Chinese)
- Pan, Y.**, Liu, H., Lau, P., & Luo, F. (2017). A Latent Transition Analysis of Bullying and Victimization in Chinese Primary School Students. *PLoS one*, 12(8), e0182802.
- Pan, Y.**, & Luo, F. (2017). Measurement and Control of Social Desirability Bias. *Advances in Psychological Science*, 25(10): 1664-1674. (In Chinese)
- Pan, Y.**, & Luo, F. (2017). Detection of Answer Copying in College Entrance Examination via Kullback-Leibler Divergence and ω -Index. Paper presented at *the 6th Annual Conference on Test Security*, Madison, Wisconsin.
- Liu, Y., **Pan, Y.**, & Luo, F. (2017). Item Difficulty Modeling of Number-Series Problems. *Psychological Exploration*, 37(1): 78-83. (In Chinese)
- Zeng, X., **Pan, Y.**, Zhou, H., Yu, S., & Liu, X. (2016). Exploring Different Patterns of Love Attitudes among Chinese College Students. *PloS one*, 11(11), e0166410.

HONORS AND AWARDS

Harold Gulliksen Psychometric Research Fellowship: \$28,000	09/2021-06/2022
<i>Educational Testing Service</i>	<i>Princeton, New Jersey</i>
This fellowship provides funding and guidance for my research project: <i>A Machine Learning System for Protecting Test Integrity</i> . (Mentor: Sandip Sinharay, Oren Livne.)	
Beisen Psychometric Scholarship	09/2016-06/2017
<i>Beijing Beisen Cloud Computing Co., Ltd.</i>	<i>Beijing, China</i>
Excellent Student Scholarship (3)	09/2014-06/2017
<i>Beijing Normal University</i>	<i>Beijing, China</i>

TEACHING EXPERIENCE

Teaching Assistant for <i>Statistical Methods Applied to Education I</i>	09/2020-12/2020
<i>University of Wisconsin-Madison</i>	<i>Madison, Wisconsin</i>
Teaching Assistant for <i>Statistical Methods Applied to Education II</i>	01/2021-06/2021
<i>University of Wisconsin-Madison</i>	<i>Madison, Wisconsin</i>

Teaching Assistant for *Multivariate Statistics*

Beijing Normal University

02/2016-07/2016

Beijing, China

Teaching Assistant for *Psychological Statistics*

Beijing Normal University

02/2015-07/2015

Beijing, China

Psychology Teacher

Beijing Gucheng Foreign Language School

10/2013-11/2013

Beijing, China

Psychology Teacher

Beijing Shoushuihe Primary School

10/2012-06/2013

Beijing, China

SELECTED RESEARCH EXPERIENCE

Graduate Student Project Assistant

Testing and Evaluation Center of University of Wisconsin-Madison

09/2017-08/2020

Madison, Wisconsin