

# Ziwei Zhang

250 Ed. Sci. Building, 56 East River Road, Minneapolis, MN 55455

Cell: 952-288-7583 • Email: [zhan7511@umn.edu](mailto:zhan7511@umn.edu)

## EDUCATION

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**Ph.D. Educational Psychology**, *Quantitative Methods in Education (QME)*. 2025 (Expected)

Advisor: Dr. Nidhi Kohli

University of Minnesota-Twin Cities // Minneapolis, MN

**M.A. Educational Psychology**, *Quantitative Methodology (QM)* Graduated Spring 2020

Advisor: Dr. Shiyu Wang

University of Georgia // Athens, GA

**B.S. Psychology** Graduated Spring 2017

East China Normal University // Shanghai, China

## RESEARCH INTERESTS

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Intrinsically nonlinear longitudinal models

Longitudinal mediation models

Model evaluation

Bayesian methods

## PROFESSIONAL SKILLS

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Programming Skills: R and R Markdown

Experience with Statistical and Specialized Software: SPSS, SAS, JAGS, MPLUS, flexMIRT

Word Process: Microsoft Office Suite (Word, Excel, and PowerPoint)

## RESEARCH LABS

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*Longitudinal Methods Development (LMD) Lab*

Lab Director: Dr. Nidhi Kohli

College of Education and Human Development // Department of Educational Psychology

University of Minnesota-Twin Cities // Minneapolis, MN

*Sexual Health Research at the University of Minnesota (SHRUM) Lab*

Lab Director: Dr. B.R. Simon Rosser

School of Public Health // Division of Epidemiology & Community Health

University of Minnesota-Twin Cities // Minneapolis, MN

## PUBLICATIONS

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### PEER-REVIEWED ARTICLES

- [3] **Zhang, Z.**, Rohloff, C. T., & Kohli, N. (*in press*). Model fit indices for random effects models: Translating model fit ideas from latent growth curve models. *Structural Equation Modeling: A Multidisciplinary Journal*, DOI: <https://doi.org/10.1080/10705511.2022.2138893>.
- [2] Tatum, A., Rosser, B. S., Wheldon, C. W., Torres, M. B., Bates, A. J., Haggart, R., Konety, B. R., Mitteldorf, D., Polter, E. J., Ross, M. W., Talley, K. M., West, W., Wright, M. M., & **Zhang, Z.** (2023). The effects of prostate cancer treatment on role-in-sex in gay and bisexual men: mixed methods results from the restore-1 and restore-2 studies. *The Journal of Sex Research*, 60(5), 752-761.
- [1] **Zhang, Z.**, Rohloff, C. T., & Kohli, N. (2023). Commentary on “Obtaining Interpretable Parameters from Reparameterized Longitudinal Models: Transformation Matrices Between Growth Factors in Two Parameter Spaces.” *Journal of Educational and Behavioral Statistics*, 48(2), 262–268.

### MANUSCRIPT CURRENTLY UNDER REVIEW

- [2] Bennis, S. L., Rohloff, C.T., **Zhang, Z.**, Kohli, N., Zoschke, I. N., Rosser, B. R. S., Nyitray, A. G., Wilkerson, J. M., Stull, C. L., Khariwala, S. S., Ross, M. W. (under review). Sexual behavior and perceived risk for oropharyngeal cancer among men who have sex with men: A psychometric scale validation. *Sexually Transmitted Infections*
- [1] Rosser, B. R. S., Mkoka, D. A., Trent, M., Lukumay, G. G., Kohli, N., Mgopa, L. R., Rohloff, C. T., Mkonyi, E., Ross, M. W., Mushy, S. E., Mohammed, I., Massae, A. F., **Zhang, Z.**, Mwakawanga, D. L. (under review). Effects of an Afrocentric sexual health education curriculum for medical, nursing and midwifery students in Tanzania: A single blinded randomized controlled phase 3 trial. *British Medical Journal (BMJ) Open*.

### MANUSCRIPTS IN PREPARATION

- [1] **Zhang, Z.**, & Wang, S. Item Parameter Estimation using Marginal Likelihood Estimation in Practical Targeted Testing Designs.

## PRESENTATIONS

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### PEER-REVIEWED ARTICLES

- [4] Bennis S. L., Rohloff C. T., **Zhang Z.**, Kohli N., Zoschke I. N., Rosser B. R. S., Ross M. W. (to be presented 2023, October 5-7). Measuring the impact of sexual risk on the perception of HPV-associated oropharyngeal cancer risk in men who have sex with men [Poster presentation]. *The Science of Cancer Health Equity in Sexual and Gender Minority Communities*. New York, NY.

- [4] **Zhang, Z.**, & Kohli, N. (to be presented 2023, July 27). *Longitudinal Mediation Models: Understanding the Impact of Confounders and Colliders*. [Paper presentation]. International Meeting of the Psychometric Society (IMPS) 2023 Annual Meeting. College Park, MD, United States.
- [3] **Zhang, Z.**, Rohloff, C. T., & Kohli, N. (2023, April 15). *Model fit indices for random effects models: Translating model fit from latent growth curve models* [Paper presentation]. American Educational Research Association (AERA) 2023 Annual Meeting. Chicago, IL, United States.
- [2] **Zhang, Z.**, Rohloff, C. T., & Kohli, N. (2023, January 27). *Model Fit Indices for Random Effects Models: Translating Model Fit Ideas from Latent Growth Curve Models*. [Paper presentation] Graduate Student Research Day 2023. Minneapolis, MN, United States.
- [1] Ferster, A., Wang, B., & **Zhang, Z.** (2018, October 19). *The Impact of a Negligible Penalty on Students' Inclination to Use Cognitive Supports During Assessment*. [Poster session] 2018 Innovation in Teaching Conference. Athens, GA, United States.

## RESEARCH EXPERIENCE

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*Graduate Research Assistant* (10 hrs/week) August 2021-present  
 Restore: Improving Sexual Outcomes of Gay and Bisexual Prostate Cancer Survivors  
**NIH/NCI Grant:** # R01 CA218657-01 // PI: Dr. B.R. Simon  
 University of Minnesota- Twin Cities // Minneapolis, MN

- Conducted data analysis, generated technical reports, contributed to peer-reviewed manuscripts

*Graduate Research Assistant* (10 hrs/week) June 2022- present  
 Training the Long Term Support and Services Workforce in Sexual and Gender Minority  
 Competent Provision of Care  
**NIH/NIA Grant:** # 1R01AG075734-01A1 // PI: Dr. B. R. Simon Rosser, and Dr. Tetyana Shippee  
 University of Minnesota- Twin Cities // Minneapolis, MN

- Conducted data analysis, generated technical reports, contributed to data analysis plan

*Graduate Research Assistant* (10 hrs/week) August 2021-May 2022  
 Training for Health Professionals in Tanzania  
**NIH/NICHD Grant:** # 1R01 HD092655-01A1 // PI: Dr. B.R. Simon Rosser  
 School of Public Health // Division of Epidemiology and Community Health  
 University of Minnesota- Twin Cities // Minneapolis, MN

- Conducted data analysis, generated technical reports, contributed to peer-reviewed manuscripts

*Research Assistant* // Supervised by: Dr. Shiyu Wang August 2019-May 2020  
 Development of an Item bank of a CAT to measure Graduate Statistical Reasoning Ability  
 University of Georgia // Athens, GA

- Conducted simulation studies

*Research Assistant* // Supervised by: Dr. Xiaoling Liu May 2017-December 2017  
 Development of a Measurement of High School Students' Academic Inclination  
 East China Normal University // Shanghai, China

- Developed items, conducted item analysis

*Research Assistant* // Supervised by: Dr. Ciping Deng May 2016-December 2017  
 Curriculum Standards Reform for Primary and Secondary Education in Shanghai  
 East China Normal University // Shanghai, China

- Developed an indicator system, developed a survey, conducted data analysis

## **TEACHING EXPERIENCE**

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*Teaching Assistant* Fall 2020; Spring 2021; Summer 2021  
 EPSY 3264 - Basics and Applied Statistics  
 Department of Educational Psychology // University of Minnesota, Twin Cities

- Graded assignments, held office hours

*Volunteered Teacher* March 2015-July 2015  
 Primary School Students Growth Camp // Shanghai & Fujian, China

- Designed and implemented curriculum and activities, communicated with parents

## **PROFESSIONAL EXPERIENCE**

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*Attention Trainer* March 2016-October 2016  
 Little Dolphin Children Attention Training Centre // Shanghai, China

- Conducted attention training, developed attention training sessions, wrote popularization articles

*Assessment Specialist* // Supervisor: Dr. Ciping Deng. May 2018-May 2019  
 East China Normal University // Shanghai, China

- Evaluated students' reading and math abilities through one-on-one assessments

*Investigator* // Supervisor: Dr. Wen-Jui Han March 2016-May 2016  
 New York University in Shanghai // Shanghai, China

- Distributed questionnaires and did interviews

*Investigator* // Supervisor: Dr. Yaozong Hu  
 May 2015  
 Shanghai Municipal Education Commission // Shanghai, China

- Distributed questionnaires and did interviews

## **AWARDS AND HONORS**

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*Professional Development Funding Award (\$250)*

University of Minnesota - Twin Cities

Department of Educational Psychology

Awarded: August 2020

*Third Prize Scholarship (¥1000)*

East China Normal University

Awarded: 2016, 2015

*Third Prize*

Daxia College Students Extracurricular Academic Science and Technology Competition

East China Normal University

Awarded: 2016, 2015

*Daxia Students Innovation Program Grant (¥3000)*

East China Normal University

Fall 2015-Spring 2016

*Shanghai College Students Innovation Program Grant (¥8000)*

Shanghai Municipal Education Commission

Fall 2014-Spring 2015

## **SERVICE**

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### SERVICE TO THE PROFESSION

AERA Division D Graduate Student Committee // *Leslie*

2023

AERA SEM SIG // *Submission Reviewer*

2022

### SERVICE TO THE PROGRAM, DEPARTMENT, UNIVERSITY

Council of Graduate Students (COGS) // *Grants Reviewer*

2022-present

QME Faculty Search Committee // *Student Representative*

2022-2023

Educational Psychology Student Diversity Committee // *Member*

2021-2022

## **PROFESSIONAL MEMBERSHIPS**

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Psychometric Society

Member Since: 2023

American Educational Research Association (AERA)

Member Since: 2020

Educational Statisticians SIG