Zifeng Zhang

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Education	
Ph.D. in Statistics Colorado State University, Fort Collins, Colorado Advisor: Prof. Wen Zhou Co-advisor: Prof. Haonan Wang GPA: 4.0/4.0	2019 — present
M.A.S. in Applied Statistics Nankai University, Tianjin, China GPA: 87.9/100	2016 - 2018
B.A. in Economics, Specialization in Insurance Nankai University, Tianjin, China GPA: 87.9/100	2012 - 2016

Research Interests

- High-dimensional statistics
- Causal inference, interference, mediation analysis
- Network analysis, graphical modeling
- Tensor data analysis

Publications and Manuscripts

- 1. **Zhang**, **Z**., Ding, P., Zhou, W., and Wang, H. (2024+) With random regressors, least squares inference is robust to correlated errors with unknown correlation structure. *Biometrika*, In press. (ArXiv, website)
- 2. **Zhang, Z.**, Ding, P., and Zhou, W. (2024+) *F* Distribution in Linear Regression: A New Lens Through One Century Journey. To be submitted.
- 3. Zhang, Z., Yang, F., Ding, P., and Zhou, W. (2024+) Mediation analysis with interactions and heredity under growing number of mediators. To be submitted.
- 4. Lei, L, **Zhang**, **Z**., Ding, P., and Zhou, W. (2024+) Robustness of various robust standard errors with respect to different assumptions on the regressors and errors. In progress.

Teaching

Stand-alone Instructor

General Statistics (STAT201) Undergraduate introduction to techniques in descriptive statistics and inference.	SM2020, SM2024
Introduction to Applied Statistics (STAT301) Undergraduate introduction to techniques in descriptive statistics, inference, and regression.	FA2021, SP2022, FA2022, SP2023, FA2023, SP2024, FA2024
Recitation Instructor	
General Statistics (STAT201)	FA2019, SP2020, SP2021
Teaching Assistant	
Intro to Theory and Practice of Statistics (STAT315) Undergraduate course for probability theory and statistics.	FA2019
Regression Models and Applications (STAA551) Regression analysis for the program of Master of Applied Statistic	FA2020 .s.
Analysis of Time Series (STAA573) Time series analysis for the program of Master of Applied Statisti	FA2020 cs.
Introduction to Probability Theory (STAT520) Graduate course for probability, random variables, distributions, pectations, generating functions, and limit theorems.	FA2021 ex-
Probability Theory (STAT720) Graduate course for set theory, measure theory, Lebesgue integral, conditional expectation.	FA2022, FA2023, FA2024 and
Advanced Theory of Statistics (STAT730) Graduate course for U-statistics, Hajek projection, moment esti- tor, maximum-likelihood methods, concentration inequalities, emp- cal process, and statistical decision theory.	SP2023, SP2024 ma- piri-

Presentations

"Mediation analysis with interactions and heredity under growing number of mediators," IRSA, Minneapolis, MN. 5/2024 (Student Poster Competition)

"When least square inference with random regressors encounters unknown correlated errors," WNAR, Fort Collins, CO. 6/2024. (Student Paper Oral Presentation)

Honors and Awards

Gongneng Scholarship	Nankai University, China	2013
Graduate Scholarship for Outstanding Freshmen	Nankai University, China	2016

Professional Membership

Student Membership

Society for Causal Inference

Computing Skills

R, High Performance Computing