

Zhenghao Zeng

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Home page: tigerzhzeng.com

Research interests	Causal inference, nonparametric statistics, high-dimensional statistics	
Education	Carnegie Mellon University	Pittsburgh, PA
	Ph.D. in Statistics	08/2020 – Present
	Advisor: Prof. Edward H. Kennedy	
	Carnegie Mellon University	Pittsburgh, PA
	M.S. in Statistics	08/2020 – 05/2021
	University of Science and Technology of China	Hefei, Anhui
	B.S. in Statistics	08/2016 – 06/2020
Honors and awards	ENAR Distinguished Student Paper Award (International Biometric Society ENAR Spring Meeting)	
	2023	
	Guo Moruo Scholarship (summa cum laude at USTC)	
	2019	
Publications	National Scholarship of China (USTC)	
	2018	
	Zeng, Z. , Gu, Y., and Xu, G. (2023). A Tensor-EM Method for Large-Scale Latent Class Analysis with Binary Responses. <u>Psychometrika</u> , 88(2), 580-612.	
	He, Y., Meng, B., Zeng, Z. and Xu, G. (2021). On the phase transition of Wilks' phenomenon. <u>Biometrika</u> , 108(3), 741-748.	
Preprints	Bonvini, M., Zeng , Yu, M., Kennedy, E. H., and Keele, L. (2023). Flexibly Estimating and Interpreting Heterogeneous Treatment Effects of Laparoscopic Surgery for Cholecystitis Patients. arXiv preprint arXiv:2311.04359.	
	Zeng, Z. , Kennedy, E. H., Bodnar, L. M., and Naimi, A. I. (2023). Efficient generalization and transportation. arXiv preprint arXiv:2302.00092.	
	Levis, A. W., Bonvini, M., Zeng, Z. , Keele, L., and Kennedy, E. H. (2023). Covariate-assisted bounds on causal effects with instrumental variables. arXiv preprint arXiv:2301.12106.	
Experience	Adobe Research	San Jose, CA
	Research Intern	05/2023 – 08/2023
	Mentors: David Arbour and Prof. Avi Feller (Berkeley)	
	Continuous treatment effects with surrogate outcomes.	

	University of Michigan, Ann Arbor Research Assistant Mentor: Prof. Gongjun Xu Large-scale latent class analysis and high-dimensional testing.	Ann Arbor, MI 06/2019 – 09/2019
Teaching experience	Teaching assistant, Carnegie Mellon University 36-225, Introduction to Probability 36-401 Modern Regression 36-402 Advanced Methods for Data Analysis (×2)	08/2020–05/2022
	Teaching assistant, USTC Single-variable Calculus Regression Analysis	09/2019 – 05/2020
Presentations	American Causal Inference Conference Causal inference with high-dimensional discrete covariates	Austin, TX 05/2023
	International Biometric Society ENAR Spring Meeting Efficient generalization and transportation	Nashville, TN 03/2023
Academic Service	Reviewer Electronic Journal of Statistics (4) American Journal of Epidemiology (1) Journal of American Statistical Association (1)	
Miscellaneous	Coursework Mathematics and Probability: Mathematical Analysis(A+), Linear Algebra(A+), Real Analysis(A+), Functional Analysis(A+), Advanced Probability Theory(A+), Stochastic Process(A+), Probability Limiting Theory(A+) Statistics: Mathematical Statistics(A+), Regression Analysis(A+), Multivariate Analysis(A+), Bayesian Analysis(A+), Nonparametric Statistics(A+), Advanced Statistical Theory(A) Machine Learning: Advanced Machine Learning(A+), Convex Optimization(A+), Probabilistic Graphical Models(A+), Deep Learning(A+) Programming: Statistical Computing(A+), Deep Learning System(A), Foundations of Algorithms(A+)	