Xingyu Chen

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EDUCATION

2023 – present	**Shanghai Jiao Tong University**, Minhang, Shanghai 200240, China Ph.D. Candidate in Statistics Advisor: **Lin Liu**
2019 – 2023	**Huazhong University of Science and Technology**, Hongshan, Wuhan 430074, China B.S. in Mathematics and Applied Mathematics

RESEARCH INTERESTS

High-dimensional statistics; Statistical computing; Higher-order U-statistics; Causal inference; Semiparametric theory; Nonparametric theory.

PREPRINTS

[1] **Xingyu Chen**, Lin Liu, and Rajarshi Mukherjee. Method-of-moments inference for GLMs and doubly robust functionals under proportional asymptotics. *arXiv preprint arXiv:2408.06103*, 2024.

[2] **Xingyu Chen**, Ruiqi Zhang, and Lin Liu. On computing and the complexity of computing higher-order U-statistics, exactly. *arXiv preprint arXiv:2508.12627*, 2025.

AWARDS

Honors and Awards during Ph.D.

May 2025	Best Paper Award Forum on AI for Mathematics, Shanghai Jiao Tong University, Shanghai, China
Apr. 2025	Travel Award 3rd Annual Meeting of the Chinese Statistical Association of Young Scholars, Jinan, China

Honors and Awards during Undergraduate

Jun. 2023	Outstanding Graduate Huazhong University of Science and Technology
Dec. 2021	First Prize 13th National Undergraduate Mathematics Competition (Hubei Division)
Dec. 2020	National Scholarship for Undergraduate Students Ministry of Education of China

Presentations

Jan. 2026	Poster, 2026 Joint Workshop of RMTA and SNAB[1], Nanjing, China
Nov. 2025	Oral, The 1st National High-level Doctoral Student Academic Forum, Shanghai Jiao Tong University, Shanghai, China
Nov. 2025	Oral, The 6th Beijing-Tianjin-Hebei Workshop on Mathematics and Statistics & Graduate Student Forum, Baoding, China
Nov. 2025	Oral, The 3rd National Frontier Mathematics Doctoral Student Academic Exchange Forum, Peking University, Beijing, China
Sep. 2025	Oral, 2025 Joint Annual Conference of CAAS-SIRB and CAISER-ESDSB[2], Shanghai, China
May 2025	Oral, Forum on AI for Mathematics, Shanghai Jiao Tong University, Shanghai, China
Apr. 2025	Oral, 3rd Annual Meeting of the Chinese Statistical Association of Young Scholars, Jinan, China
Apr. 2025	Poster, European Causal Inference Meeting 2025, Ghent, Belgium

[1] RMTA: Random Matrix Theory and Applications; SNAB: Statistical Network Analysis and Beyond.
[2] CAAS-SIRB: Statistical Interdisciplinary Research Branch of Chinese Association for Applied Statistics; CAISER-ESDSB: Ethnic Statistics and Data Science Branch of Chinese Association of Industrial Statistical Education and Research.

Service

Dec. 2022	Main contributor of the Chinese translation of "Fernholz, L. T., and S. Morgenthaler. A conversation with John W. Tukey and Elizabeth Tukey. Statistical Science, 15(1): 79–94, 2000." for Capital of Statistics (COS), a leading online platform for the Chinese statistical community, established in 2006.

Teaching Experience

Fall 2025	Teaching Assistant Advanced Mathematical Statistics (Ph.D. Course) School of Mathematical Sciences, Shanghai Jiao Tong University Instructor: Lin Liu
Spring 2025	Teaching Assistant Probability and Statistics (Undergraduate Course) School of Mathematical Sciences, Shanghai Jiao Tong University Instructor: Peng Luo
Fall 2024	Teaching Assistant Linear Algebra (Undergraduate Course) School of Mathematical Sciences, Shanghai Jiao Tong University Instructor: Zhen Cui

Computation Skills

R, Python, Mathematica, C++,Matlab