

# Xingyu Chen

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## EDUCATION

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- 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

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

## PREPRINTS

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- [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

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### 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

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- Jan. 2026 [Poster](#), 2026 Joint Workshop of RMTA and SNAB<sup>1</sup>, 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<sup>2</sup>, 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

<sup>1</sup> RMTA: Random Matrix Theory and Applications; SNAB: Statistical Network Analysis and Beyond.

<sup>2</sup> 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

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- 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

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- 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

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R, Python, Mathematica, C++, Matlab