

GUOJUN ZHU

Ph.D. Student in Statistics, University of Chinese Academy of Sciences

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EDUCATION

National University of Singapore

Sep. 2026 – Aug. 2027

Visiting Ph.D. Student, Department of Statistics and Data Science

Host: [Doudou Zhou](#)

University of Chinese Academy of Sciences

Sep. 2023 – Present

Ph.D. Student in Statistics, School of Mathematical Sciences

Advisor: [Sanguo Zhang](#)

Wuhan University

Sep. 2019 – Jun. 2023

B.S. in Mathematics and Applied Mathematics

Thesis: *Preconditioned Stochastic Gradient Descent*

PUBLICATIONS AND MANUSCRIPTS

*Corresponding author; †authors listed in alphabetical order.

Agent Research

- **Guojun Zhu**, Xinyou Chen, Kejian Zhang, Sanguo Zhang, Doudou Zhou*.
AgentCue: Statistical Summaries for Guiding Decentralized Multi-Agent Self-Organization.
Manuscript, Oct. 2026. [\[arXiv\]](#)
- **Guojun Zhu**, Xunheng Huang, Peng Yin, Jiahui Xie, Sanguo Zhang, Doudou Zhou*.
Bad Genius: Counterfactual-Guided Harness Evolution Beyond Task-Specific Shortcuts.
Under review, Sep. 2026. [\[arXiv\]](#)

Statistical Machine Learning

- Yuhang Jiang, Fengchuan Zhang, Sanguo Zhang, **Guojun Zhu***.
Chaos Is a LADDER: Domain Generalization Beyond Invariance via Reweighting.
Under review, Jul. 2026. [\[arXiv\]](#)
- Junhan Yu, Kejian Zhang, Doudou Zhou, **Guojun Zhu**†.
Pattern-Calibrated Multimodal Prediction under Blockwise Missingness.
Under review at the *Journal of Machine Learning Research*, Jul. 2026. [\[arXiv\]](#)
- **Guojun Zhu**, Sanguo Zhang, Mingyang Ren*.
Model-agnostic information transfer and fusion for classification with label noise.
Under review at *Biometrika*, Apr. 2026. [\[arXiv\]](#)
- Zenghao Guan, **Guojun Zhu**, Yucan Zhou, Wu Liu, Weiping Wang, Jiebo Luo, Xiaoyan Gu*.
Enhancing Federated Class-Incremental Learning via Spatial-Temporal Statistics Aggregation.
International World Wide Web Conference (WWW), Jan. 2026. [\[Article\]](#)
- **Guojun Zhu**, Sanguo Zhang, Mingyang Ren.
Conditional Generative Learning from Invariant Representations in Multi-Source: Robustness and Efficiency.
28-th Annual Conference on Artificial Intelligence and Statistics (AISTATS), Jan. 2025. [\[Article\]](#)

Network and Graphical Models

- **Guojun Zhu**, Ruiyue Wang, Rong Li, Sanguo Zhang, Ben-Chang Shia, Shuangge Ma, Hao Mei*.
A Functional Latent Space Model for Time-varying Networks with Applications to Clinical Outcomes Data.
Biometrics — Accepted, October 2026.
- Rongzhuo Nie, Sanguo Zhang, Lili Zhao, **Guojun Zhu***.
Distributed Hub Detection in Heterogeneous Graphical Models.
Science China Mathematics (English Edition) — Major revision in progress, October 2026.

- **Guojun Zhu**, Sanguo Zhang, Ben-Chang Shia, Wei-Shan Chang, Kai-Yuan Hsiao, Shuangge Ma, Hao Mei^{*}. Joint Latent Space Modeling of Time-Varying Disease Interconnections and Trends: Analysis of the Taiwan Health Insurance Research Database. Under review, Oct. 2026.
- **Guojun Zhu**, Haofei Wang, Mingyang Ren^{*}. Directed hypergraphs: tensor representation, embedding modeling, and community detection. Under review, Aug. 2026.
- **Guojun Zhu**, Ruiyue Wang, Rong Li, Sanguo Zhang, Shuangge Ma, Guanzhong Qiao, Hao Mei^{*}. Latent Space Modeling for Human Disease Network With Temporal Variations: Analysis of Medicare Data. *Annals of Applied Statistics (AOAS)*, March 2026. [\[Article\]](#)

AWARDS AND HONORS

National Scholarship for Doctoral Students	2026
China Scholarship Council Scholarship, National Construction High-Level University Public Graduate Program	2026
Doctoral Student Program of the Young S&T Talents Cultivation Project, CAST	2025
Outstanding Paper Award (Top 10), 11th National Forum for Postgraduate Students in Statistics	2025
Poster Presentation Award, Annual Meeting of the Young Statisticians Association & 3rd International Conference on Statistical Theory and Applications	2025
Excellent Graduates of the College; Excellent Bachelor Dissertation Award, Wuhan University	2023
Finalist (Top 2%), Mathematical Contest in Modeling	2022
Second Prize, Contemporary Undergraduate Mathematical Contest in Modeling	2021
First Prize, National Olympiad in Informatics in Provinces (NOIP), Guangdong Province	2018
Second Prize, National High School Mathematics League, Guangdong Division	2018

TEACHING EXPERIENCE

Teaching Assistant, University of Chinese Academy of Sciences	2024–2026
Graduate: Advanced Mathematical Statistics (Fall 2024, Fall 2025); Stochastic Processes (Spring 2025, Spring 2026).	
Undergraduate: Probability and Statistics (Fall 2024). [Course notes]	