

Jiawei Ge

BASIC INFORMATION

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Google Scholar: <https://scholar.google.com/citations?user=480drckAAAAJ&hl=en>

EDUCATION

School of Mathematics, Fudan University, China

Sep 2017 - Jul 2021

B.S. in Applied Mathematics (graduated with high distinction)

School of Mathematics, NC State University, United States

Jan 2020 - May 2020

Exchange student for one semester

Operations Research and Financial Engineering, Princeton University, United States

Sep 2021 - Present

Ph.D. in Operations Research and Financial Engineering

Advisors: Jianqing Fan and Chi Jin

RESEARCH AND PUBLICATIONS

- On the Provable Advantage of Unsupervised Pretraining
Jiawei Ge*, Shange Tang*, Jianqing Fan, Chi Jin (*=equal contribution)
International Conference on Learning Representations (ICLR) 2024 **Spotlight paper**
- UTOPIA: Universally Trainable Optimal Prediction Intervals Aggregation
Jianqing Fan, **Jiawei Ge**, Debarghya Mukherjee (alphabetical order)
Journal of Econometrics (JOE) under review
- Maximum Likelihood Estimation is All You Need for Well-Specified Covariate Shift
Jiawei Ge*, Shange Tang*, Jianqing Fan, Cong Ma, Chi Jin (*=equal contribution)
International Conference on Learning Representations (ICLR) 2024
- Optimal Aggregation of Prediction Intervals under Unsupervised Domain Shift
Jiawei Ge*, Debarghya Mukherjee*, Jianqing Fan (*=equal contribution)
The Thirty-Eighth Annual Conference on Neural Information Processing Systems (NeurIPS) 2024
- Securing Equal Share: A Principled Approach for Learning Multiplayer Symmetric Games
Jiawei Ge*, Yuanhao Wang*, Wenzhe Li, Chi Jin (*=equal contribution)
International Conference on Machine Learning (ICML) 2025
- Covariates-Adjusted Mixed-Membership Estimation: A Novel Network Model with Optimal Guarantees
Jianqing Fan, **Jiawei Ge**, Jikai Hou (alphabetical order)
Annals of Statistics (AOS) under major revision
- MATH-Perturb: Benchmarking LLMs' Math Reasoning Abilities against Hard Perturbations
Kaixuan Huang, Jiacheng Guo, Zihao Li, Xiang Ji, **Jiawei Ge**, Wenzhe Li, Yingqing Guo, Tianle Cai, Hui Yuan, Runzhe Wang, Yue Wu, Ming Yin, Shange Tang, Yangsibo Huang, Chi Jin, Xinyun Chen, Chiyuan Zhang, Mengdi Wang
International Conference on Machine Learning (ICML) 2025
- Principled Out-of-Distribution Generalization via Simplicity
Jiawei Ge, Amanda R. Wang, Shange Tang, Chi Jin
International Conference on Learning Representations (ICLR) 2026 under review

- Frontier LLMs Still Struggle with Simple Reasoning Tasks
Alan Malek*, **Jiawei Ge***, Nevena Lazic, Chi Jin, András György, Csaba Szepesvari (*=equal contribution)
International Conference on Learning Representations (ICLR) 2026 under review
- Goedel-Prover-V2: Scaling Formal Theorem Proving with Scaffolded Data Synthesis and Self-Correction
Yong Lin, Shange Tang, Bohan Lyu, Ziran Yang, Jui-Hui Chung, Haoyu Zhao, Lai Jiang, Yihan Geng, **Jiawei Ge**, Jingruo Sun, Jiayun Wu, Jiri Gesi, Ximing Lu, David Acuna, Kaiyu Yang, Hongzhou Lin, Yejin Choi, Danqi Chen, Sanjeev Arora, Chi Jin
International Conference on Learning Representations (ICLR) 2026 under review

TEACHING EXPERIENCES

Fundamentals of Statistics	Sep 2022 – Jan 2023
Position: Assistant-In-Instruction	
Instructors: Sohom Bhattacharya and Debarghya Mukherjee	
Optimization	Feb 2023 – May 2023
Position: Assistant-In-Instruction	
Instructors: Bartolomeo Stellato	
Theoretical Machine Learning	Sep 2023 – Jan 2024
Position: Assistant-In-Instruction	
Instructors: Chi Jin	
Fundamentals of Statistics	Feb 2024 – May 2025
Position: Assistant-In-Instruction	
Instructors: Daniel Rigobon	

AWARDS

• National Scholarship (most prestigious scholarship for Chinese undergraduates)	2018
• Scholarship for Excellent Academic Performances	2018&2019
• Outstanding Student	2018&2019&2020
• SEAS Travel Grant Award	2024&2025
• ICLR 2024 Travel Grant Award	2024
• School of Engineering and Applied Science Award for Excellence	2024
• The Bede Liu Fund for Excellence	2024
• PDT Partners Machine Learning Conference Grant	2025
• ICML 2025 Financial Aid Award	2025

INVITED TALKS

- “On the Provable Advantage of Unsupervised Pretraining”, Fudan CS Seminar, Jun 2024.