

# Jiawei Ge

## BASIC INFORMATION

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

## EDUCATION

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**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

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- 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 major revision
- 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

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

## AWARDS

• National Scholarship ( <b>most prestigious scholarship for Chinese undergraduates</b> )	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.