

# 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)  
ICLR 2024 Spotlight paper
- UTOPIA: Universally Trainable Optimal Prediction Intervals Aggregation  
Jianqing Fan, **Jiawei Ge**, Debarghya Mukherjee (alphabetical order)  
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)  
ICLR 2024
- Optimal Aggregation of Prediction Intervals under Unsupervised Domain Shift  
**Jiawei Ge\***, Debarghya Mukherjee\*, Jianqing Fan (\*=equal contribution)  
NeurIPS 2024
- Securing Equal Share: A Principled Approach for Learning Multiplayer Symmetric Games  
**Jiawei Ge\***, Yuanhao Wang\*, Wenzhe Li, Chi Jin (\*=equal contribution)  
ICML 2025
- Covariates-Adjusted Mixed-Membership Estimation: A Novel Network Model with Optimal Guarantees  
Jianqing Fan, **Jiawei Ge**, Jikai Hou (alphabetical order)  
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  
ICML 2025
- Principled Out-of-Distribution Generalization via Simplicity  
**Jiawei Ge**, Amanda R. Wang, Shange Tang, Chi Jin  
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)  
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  
ICLR 2026 under review

## TEACHING EXPERIENCES

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

## 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.