Jiawei Ge

BASIC INFORMATION

Address: 222-Sherrerd Hall, Charlton Street, Princeton, NJ 08544
Mobile Phone: +1 609-933-7624
Email: jg5300@princeton.edu
Homepage: https://jiaweige0416.github.io/
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)
  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 review

- 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
  NeurIPS 2025 under review

- Frontier LLMs Still Struggle with Simple Reasoning Tasks
  Alan Malek*, **Jiawei Ge***, Nevena Lazic, Chi Jin, András György, Csaba Szepesvari (*=equal contribution)
  NeurIPS 2025 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.