

Haobo Zhang

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Education

Georgia Institute of Technology <i>MS in Operations Research</i>	<i>Aug 2024 – Present</i>
◦ GPA: 3.88/4.00	
◦ Coursework: Stochastic Processes I*, Stochastic Processes II*, Linear Optimization*, Discrete Optimization, Simulation Theory and Methods, Computational Methods in Optimization, Theoretical Statistics, Computational Statistics, Monte Carlo Methods.	
Shanghai Jiao Tong University <i>BA in Economics & BS in Mathematics and Applied Mathematics</i>	<i>Sep 2020 - Jun 2024</i>
◦ GPA: 3.70/4.30	
◦ SJTU Scholarship for Outstanding Undergraduates for the 2021, 2022 and 2023 academic years.	
◦ Coursework: Machine Learning, Computational Text Analysis, Data Structures and Algorithms, Financial Engineering, Econometrics, Microeconomics, Behavioral Economics, Topology, Real Analysis, Functional Analysis.	
Hong Kong University of Science and Technology <i>School of Business and Management Semester Exchange</i>	<i>Sep 2023 - Dec 2023</i>
◦ GPA: 4.03/4.30	
◦ Coursework: Applied Game Theory, Statistical Analysis of Financial Data in R, Simulation in Business and Management.	

Research Experience

Mechanism Design for Data Markets with Competing Buyers under Differential Privacy <i>Work in progress, independent.</i>	<i>Sep 2025 - Present</i>
Incentivizing Data Sharing with Heterogeneous Privacy Costs <i>Work in progress, advised by Prof. Juba Ziani and Prof. Kate Donahue.</i>	<i>May 2025 - Present</i>
Stable Matching Process on Random Bipartite Graph Sequences <i>Undergraduate thesis, advised by Prof. Jun Luo and Prof. Yan Wang.</i>	<i>Dec 2023 - May 2024</i>
◦ Proposed a two-sided dynamic matching model with restrictions imposed on matching at each time stage. ◦ Developed a corresponding matching mechanism that guarantees instant stability and convergence to universal stability.	
Prediction of Cryptocurrency Returns Based on Market Sentiment and Blockchain Address Activity <i>Undergraduate participation in research program, advised by Prof. Haibing Shu.</i>	<i>May 2022 - Oct 2022</i>
◦ Created automatically updated databases of crypto-relevant texts and blockchain address activities. ◦ Constructed sentiment indices tailored to the cryptocurrency market, based on crypto-relevant texts. ◦ Formulated network indices to characterize blockchain address activities using social network analysis. ◦ Evaluated the constructed indices with linear models and validated their predictive powers for cryptocurrency returns.	

Professional Experience

Model Engineer Intern

Ping An Asset Management Co., Ltd.

Shanghai, China

May 2023 - Aug 2023

- Conducted research on FOF investment, including fund performance evaluation and portfolio optimization.
- Developed algorithms on financial market style indication and fund portfolio estimation.
- Supported the construction of factor data required for investment research platforms and financial models.

Data Researcher Intern

East Money Information Co., Ltd.

Shanghai, China

Jul 2022 - Sep 2022

- Conducted research on industry chains and supported the creation of industry chain graphs.
- Performed statistical analysis on industry data and constructed industry chain databases.
- Contributed to the development of the industry chain data research platform.

Skills

Programming Languages: Python, C/C++, Java, SQL, R, Stata, MATLAB.

Technologies: CUDA, Linux, Git, Financial terminals, L^AT_EX.

Miscellaneous

Teaching Experience: Tutor for ISyE 3133 - Engineering Optimization (Fall 2025, Gatech); Tutor for ISyE 2027 - Probability With Applications (Spring 2025, Gatech).

Languages: English (Fluent), Mandarin (Native).

Clubs & Associations: SJTU *NIX User Group.

*Passed PhD Comprehensive Exam