

# Haobo Zhang

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## Education

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### Georgia Institute of Technology

Aug 2024 – Present

MS in Operations Research

- GPA: 4.00/4.00
- **Coursework:** Linear Optimization\*, Stochastic Processes I\*, Theoretical Statistics, Computational Statistics, Monte Carlo Methods.

### Shanghai Jiao Tong University

Sep 2020 – Jun 2024

BA in Economics & BS in Mathematics and Applied Mathematics

- 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, Macroeconomics, Behavioral Economics, Accounting, Mathematical Analysis†, Linear Algebra, Probability and Statistics, ODE, Number Theory, Topology, Real Analysis, Functional Analysis.

### Hong Kong University of Science and Technology

Sep 2023 – Dec 2023

School of Business and Management Semester Exchange

- GPA: 4.03/4.30
- **Coursework:** Applied Game Theory, Statistical Analysis of Financial Data in R, Simulation in Business and Management.

## Research Experience

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### Stable Matching Process on Random Bipartite Graph Sequences

Shanghai, China

Co-supervised by Prof. Jun Luo and Prof. Yan Wang

Feb 2024 – May 2024

- 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

Shanghai, China

Supervised by Prof. Haibing Shu

Jun 2022 – Oct 2022

- 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

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### Model Engineer Intern

Shanghai, China

Ping An Asset Management Co., Ltd.

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

Shanghai, China

East Money Information Co., Ltd.

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

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

**Technologies:** Linux, Git, Arena, Financial terminals, L<sup>A</sup>T<sub>E</sub>X.

## Miscellaneous

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**Teaching Experience:** Tutor for ISyE 2027 Probability With Applications Spring 2025.

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

**Clubs & Associations:** SJTU \*NIX User Group.

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\*Passed PhD Comprehensive Exam

†Honors Course