Yuhang Huang

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EDUCATION

Shanghai Jiao Tong University **Shanghai, China**

Bachelor of Statistics (GPA: 3.7, Ranked No. 3/18) June 2025 (expected)

Major courses: Probability Theory (A), Mathematical Analysis (A+), Linear Algebra (A), Stochastic Processes (A), Scientific Computing (A+), Statistical Software and Algorithms (A+), Data Structures (A+), Complex Analysis (A+)

PROFESSIONAL EXPERIENCE

Everbright Securities **Shanghai, China**

Research Analyst Intern, Metals Team Sep. 2023 - Nov. 2023

- Specialized in the powder metallurgy and smart manufacturing sectors, responsible for data collection and analysis of prominent companies, and contributed to writing weekly reports that examine industry patterns
- Served as a team delegate at various powder metallurgy academic conferences, engaging in detailed studies of the industry chain and writing extensive meeting minutes exceeding 50,000 words
- Collaborated in producing a comprehensive evaluation report for a mining management company, exploring the company's historical growth and crafting visual representations such as equity structure diagrams

SDIC Securities **Shanghai, China**

Intern, Institutional Clients Department Jun. 2023 - Aug. 2023

- Conducted research on nine listed companies that had potential for cooperation, and wrote daily and weekly reports based on companies' announcements
- Examined partnerships of over 150 listed companies from the Growth Enterprises and Science & Technology Innovation Boards with securities firms since 2021, covering aspects like stock pledges, equity incentives, and M&As; documented results in Excel and evaluated the cooperation prospects of each firm
- Studied business processes of the department relevant to investment banking, shareholder services for listed companies, and bond services, sorted out materials, and attended meetings with clients

RESEARCH AND PROJECT EXPERIENCE

University Research Initiative: Analyzing and Modeling Data for Supplementary Diagnosis of Colorectal Cancer from Health Screening Records **Shanghai, China**

Research Assistant - Supervisor: Prof. Hua Cheng Apr. 2023 - Present

- Developed a missing value imputation strategy using the K-Nearest Neighbors (KNN) model, efficiently addressing missing data scenarios for both discrete and continuous variables
- Built a robust prediction model utilizing the Random Forest algorithm and fine-tuned model parameters through gradient search optimization
- Applied feature engineering techniques to create new variables, significantly enhancing the accuracy and reducing the error rate of the prediction model

Combinatorial Problems in the Realm of Quasi-Hereditary Algebra **Shanghai, China**

Research Assistant - Supervisor: Prof. Zhang Yuehui May 2022 - May 2023

- Computed quasi-hereditary orders in general cases, consolidated the results, and hypothesized upper and lower bounds for the quasi-hereditary orders of A_n-type tree algebras
- Examined the exact upper and lower bounds of quasi-hereditary orders for an A_n-type tree algebra, derived two pivotal generator conditions, and accurately computed its algebraic structure
- Utilized arrow diagrams to convert algebraic propositions into pure combinatorial challenges, employed combinatorial strategies to introduce original mobility theorems, ladder lemmas, and parallelogram lemmas, and evaluated related quasi-hereditary orders. The findings introduced a novel theoretical instrument for future research

Independent Study: Development of a Backtesting Framework and Replication of Factor Research

- Developed a backtesting framework for stocks and futures, executing fundamental backtesting for various factors
- Based on daily frequency data, researched turnover rate-related factors and developed the Stable Turnover Rate factor (STR), achieving an annualized return of 42.9% and a win rate of 77% within the backtesting framework, and retains stock-picking capacity after Barra neutralization.
- Replicated the UTR research report, employing quantitative analysis to assess and confirm the effectiveness of UTR2.0 across all A-shares

Independent Project: Numerical Simulation of Stochastic Differential Equations

- Executed numerical simulations to explore Brownian motion, analyzing its graphical depictions and key properties
- Computed numerical solutions for the trajectories of stochastic differential equations and investigated the impact of varying parameters on the characteristics of these orbits

CONTEST AND HONORS

- First Prize in Chinese Mathematics Competitions (provincial-level)
- Second Prize in China Undergraduate Mathematical Contest in Modeling
- Winner of Wu Wenjun Scholarship (ranked top 15)

MISCELLANEOUS

Programming: Python, R, MATLAB, C++, LaTeX

Language: Chinese (native), English (fluent, CET-6 563)