

RUNFA HU

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EDUCATION

Shanghai Jiao Tong University, Shanghai, China

Sep 2022 – Present (expected 2027)

B.A. in Economics; B.S. in Mathematics: Since Sep 2023,

GPA: 4.11/4.30 | Score: 94.46/100 | Rank: 1/37

Previously in Industrial Engineering: Sep 2022 – Jul 2023, GPA: 3.88/4.30

Selected Coursework: Real Analysis, Functional Analysis, Basic Topology, Linear Algebra I&II, Abstract Algebra, Representation Theory, Algorithm Design and Analysis, Mathematical Programming, Advanced Microeconomics I (PhD), Advanced Macroeconomics I (PhD), Game Theory, Optimization Methods in Economics, Graph and Network (in progress), Harmonic Analysis (in progress).

Audited Coursework: Integer Programming & Combinatorial Optimization(PhD), Algebraic Combinatorics(PhD).

RESEARCH INTERESTS

Integer Programming & Combinatorial Optimization, Computational Economics, Computational Complexity

RESEARCH EXPERIENCE

New Characterization and Compact Formulation for Houtman-Maks Index

Aug 2025 - Present

Shanghai Jiao Tong University | Advisor: Taotao He (Department of Management Science)

Shanghai, China

- Conducted an in-depth review of Revealed Preference Theory, comparing various mathematical approaches and proof methodologies for Afriat's Theorem;
- Provided a compact MIP formulation for the Houtman-Maks Index with tools in algebraic combinatorics;
- Provided a combinatorial version of Afriat's inequalities and a new proof of Afriat's Theorem;
- Extended the formulation to non-linear budget sets and general subset feedback vertex set problem.

Spillover Effect of Short-Selling and SEC Comment Letters on Analyst Behavior

Jun 2024 - Jul 2025

Shanghai Jiao Tong University | Advisor: Hui Ding (Department of Accounting)

Shanghai, China

- Built and maintained financial datasets using CRSP, Compustat, and I/B/E/S via the WRDS;
- Performed large-scale data processing and variable construction in SAS and WRDS SAS Studio.

AWARDS AND ACTIVITIES

National Scholarship

2025

SEIEE Alumni Scholarship

2024

Second Prize, Shanghai Division, Contemporary Undergraduate Mathematical Contest in Modeling

2024

Microeconomics Theory Reading Group

2025, 2026

SJTU Summer mini course of Microeconomics in Decision Theory

2025

Intermediate Microeconomics: Problem Solving Session - Lecturer

2025

SKILLS

Languages: English (TOEFL:113, R30 L29 S26 W28; GRE: V161, Q170, AW3.5), Chinese (Native)

Programming & Software Skills: Python, C++, MATLAB, $\text{\LaTeX}$, SAS, Stata

Hobbies: Art Exhibition(Modern Art), Table Tennis, Tennis, Riding, Hip-hop Music