FEIYAN MA

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EDUCATION

Tsinghua University   *Sep. 2021 - Jun. 2026 (expected)*
Junior at Weiyang College   Overall GPA: 3.88/4.00
Major in Mathematics and Physics

SKILLS

Programming	R, Python, LaTeX, C/C++
Language	English (TOEFL 103 [R28/L26/S22/W27]), Chinese (native), French

RESEARCH INTERESTS

I investigate various problems in random graph theory, with a focus on signed networks. My research interests include clustering, sign prediction, and statistical modeling, as well as analyzing algorithm properties and robustness.

Concurrently, I have been actively engaged in various statistical computational problems, which have wide-ranging applications in network modeling, such as matrix estimation, and so on.

RELEVANT COURSES

Core Courses	**Other Courses**
Probability Theory (1) (A+)	Intro to Biostatistics (A)
Measures and Integrals (A)	Topics in Logic (A)
Abstract Algebra (A)	Reliability Data and Survival Analysis (A)
Numerical Analysis (A)	Advanced Topics in Linear Algebra (A-)
Advanced Mathematical Statistics I (A)	Financial Statistics (A+)
Advanced Mathematical Statistics II (A-)	Operation Research (A)
Computational Probability (A)	Linear Algebra (A)
Linear Regression Analysis (A-)	Principle and Application of Database (A)
Intro to Optimization Theory (A-)	Programming Fundamentals (A+)
Probability (2) (B+)	... ...

EXPERIENCE

Reasearch Assistant   Feb 2024 - Present
Supervised by Prof. Weichi Wu   *DSDS, Tsinghua University*

· I investigate various problems in random graph theory, with a focus on signed networks.

Student Research Training   Nov 2022 - Aug 2023
Supervised by Prof. Chengli Zhu   *IE, Tsinghua University*

· Studied on classical statistical learning methods, including random forest, support vector machine, etc. Different methods were experimented to detect fraud employment information more accurately.

HONORS & AWARDS

Honorable mention, 2024 Mathematical Contest in Modeling	Feb 2024
Gold Medal, The 19th China Girls Mathematical Olympiad (CGMO)	Aug 2020
First Prize, National High School Mathematics League, Shanghai Region	Sep 2020

SERVICES

Student Learning and Development Center Apr. 2023 - Present
Assistant *Tsinghua University*

· Support students with difficulties (most in Mathematics) in daily learning by answering questions encountered in their learning process.
· Received the outstanding volunteer award in Spring 2023.

Undergraduates Curriculum Advisory Committee Sep. 2022 - Aug. 2023
Committee Member *Tsinghua University*

· Assist Undergraduate Academic Affairs Office in the routine teaching management.