

Yihong Zuo

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EDUCATION

University of Science and Technology of China

Hefei, China

Bachelor of Science in Statistics

Aug. 2022 – Jun.2026(expected)

- Overall GPA: 4.04/4.3
- Rank: 2/47 (among all students majoring in Statistics)

Relevant Coursework

* denotes graduate-level courses, On denotes ongoing courses

- **Math:**
Mathematical Analysis (94 95 99), Linear Algebra (95 97), Probability (98), Differential Equations(95), Real Analysis(On), Complex Analysis(On), Advanced Stochastic Processes*(On)
- **Statistics and Optimization:**
Applied Stochastic Processes(On), Mathematical Statistics(On), Optimization Algorithm*(On), Regression Analysis (95)
- **Computer Science:**
Algebraic Structures(98), Data Structures(95), Computer Programming(93)

RESEARCH EXPERIENCE

High Dimensional Confounding Model

USTC

Advisor: Prof. Canhong Wen (Department of Finance and Statistics, USTC)

Mar. 2024 – Jun. 2024

- Extensively conducted a literature review on high-dimensional probability and high-dimensional statistics, learning common assumptions and proof techniques.
- Reviewed recent articles on high-dimensional confounding models, exploring their economic applications.
- Reported to peers and instructors regularly, explaining concepts and proof methods

COURSE PROJECT

Optimization Algorithm Project

USTC

Advisor: Prof. Shixiang Chen (Department of Mathematical Sciences, USTC)

Feb. 2024 – Jun. 2024

- Reviewed recent articles on optimization and presented a report in class.
- Implemented sparse logistic regression using the proximal gradient descent and FISTA algorithm in Python, compared their differences, and conducted theoretical analysis.
- Wrote a research paper documenting the methodologies and findings of the project.

HONORS AND AWARDS

Yau Mathematics Competition - Analysis and Differential Equation -Winning Prize

2024

Excellent Student Scholarship - Silver(top 10%)

2023

Rose Fund Endeavor Scholarship

2023

Excellent Student Scholarship - Gold(top 3%)

2022

TECHNICAL SKILLS

Programming: C, Python, R, Mathematica, Latex

English: CET6: 504

LEADERSHIP/EXTRACURRICULAR ACTIVITIES

Scientific Exploration Association Contribution

2023 – 2024

Dedicated Volunteering

2022 – 2024

- Volunteer visits to children with leukemia
- Volunteer participation in environmental protection activities