

# SUQING LIU

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## Education

### Bachelor of Science (minor) in Statistics

Department of Statistics and Data Science, Tsinghua University (GPA: 4.0/4.0)

Sep. 2022 – Jun. 2025 (expected)

Beijing, China

### Bachelor of Science (major) in Mathematics and Physics

Zhili College, Tsinghua University (GPA: 3.88/4.0)

Sep. 2021 – Jun. 2025 (expected)

Beijing, China

### Relevant Courses (\* for graduate course)

- |                             |                               |                                |
|-----------------------------|-------------------------------|--------------------------------|
| • Calculus I/II (A+/A-)     | • Multivariate Statistics (A) | • Operations Research (A+)     |
| • Linear Algebra (A+)       | • Regression Analysis (A)     | • Survival Analysis (A)        |
| • Complex Analysis (A)      | • Statistical Computing (A)   | • Intro. to Biostatistics (A+) |
| • Math. Phys. Equations (A) | • Basic Topology (A+)         | • Data Structure & Algorithm   |
| • Probability Theory (A-)   | • Machine Learning (A)        | • Stochastic Processes         |
| • Statistical Inference (A) | • Convex Optimization* (A)    | • Functional Analysis          |
| • Intro. to Stochastic (A)  | • Intro. to Bayesian (A-)     | • Advanced Probability*        |

## Research Experiences

### Research Assistant

Carlson School of Management, University of Minnesota | Supervisor: Xuan Bi

Mar. 2024 – Now

Minnesota, USA

✉ School of Statistics, University of Minnesota | Collaborator: Tianxi Li

- Proposed a Distribution-Invariant Privatization (DIP) method for graph data to enhance data utility while protecting data privacy.

### Research Assistant

Department of Statistics and Data Science, Tsinghua University | Supervisor: Jingyi Zhang

Jul. 2023 – Now

Beijing, China

- Applied Principal Optimal Transport Direction (POTD) and machine learning methods such as logistic regression, SVM, and random forest to an ocular fundus ultrasound dataset to predict patients' cardiovascular health.
- Empirically demonstrated that the ensemble classification model with a POTD-derived SDR subspace outperforms the ensemble classification model with a random matrix-derived SDR subspace.

## Skills

**Programming:** R, Python, C/C++, Matlab, Mathematica, Julia

**Tools:** L<sup>A</sup>T<sub>E</sub>X, Linux, Git

**Languages:** English (fluent, TOEFL 106, GRE 316), Chinese (native)

## Activities

Drop-in Tutoring for STEM Courses, Tsinghua University

Zijing Five-Star Volunteer, Tsinghua University

## Honors & Scholarships

Tsinghua Univ. Summer Camp of Outstanding Students in Stat & DS, Excellent Camper (top 5)	2024
The Chinese Mathematics Competitions, First Prize	2023
Mathematical Contest In Modeling, Successful Participant	2023
The Chinese Mathematics Competitions, First Prize	2022
Volunteer and Community Service Excellence Scholarship, Tsinghua University	2023
Academic Excellence Scholarship, Tsinghua University (top 15%)	2023
Volunteer and Community Service Excellence Scholarship, Tsinghua University	2022