Suqing Liu

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Education

Bachelor of Science (minor) in Statistics   **Sep. 2022 – Jun. 2025 (expected)**
Department of Statistics and Data Science, Tsinghua University (GPA: 4.0/4.0)   *Beijing, China*

Bachelor of Science (major) in Mathematics and Physics   **Sep. 2021 – Jun. 2025 (expected)**
Zhili College, Tsinghua University (GPA: 3.88/4.0)   *Beijing, China*

Relevant Courses (* for graduate course)

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

Research Experiences

Research Assistant   **Mar. 2024 – Now**
Carlson School of Management, University of Minnesota | Supervisor: Xuan Bi   *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   **Jul. 2023 – Now**
Department of Statistics and Data Science, Tsinghua University | Supervisor: Jingyi Zhang   *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: LaTeX, 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 Univerisity	**2023**
Academic Excellence Scholarship, Tsinghua Univerisity (top 15%)	**2023**
Volunteer and Community Service Excellence Scholarship, Tsinghua Univerisity	**2022**