

LIU Liangjie

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Date of Birth: 29 Sep 2002

Research Interests

Data-driven decision making, reinforcement learning, supply chain optimization, causal inference, machine learning, algorithms, and statistical modeling.

Education

National University of Singapore (NUS) 2025.08 – Present

Ph.D. in Industrial Systems Engineering & Management

Supervisor: Prof. WANG Tong

Hong Kong University of Science and Technology (HKUST) 2024.09 – 2025.07

M.Sc. in Data-Driven Modeling GPA: 3.96/4.3

Focus: Machine learning, algorithms, and causal inference

Relevant Coursework: Statistical Machine Learning (A+), Computational and Modeling Tools (A+), Deep Learning, Numerical Methods and Modeling (A+), Quantitative Time Series Analysis (A+), Algorithm and Object-Oriented Programming, Stochastic Processes

Wuhan University (WHU) 2019.09 – 2023.06

B.S. in Mathematics and Applied Mathematics

Thesis: *Graph Neural Network-based Clustering of Spatial Transcriptomic Data* (Supervisor: Prof. JIN Suoqin)

Honors & Awards

- WHU Outstanding Graduate (2023, Top 10%)
- WHU Second-Class Scholarship (2020, Top 15%)
- WHU Third-Class Scholarship (2021, Top 20%)
- WHU Outstanding Student Leader (2021, Top 10%)
- WHU Merit Student (2020, Top 10%)

Research & Professional Experience

Research Assistant, Department of Industrial Engineering and Decision Analytics, HKUST
2024.07 – 2025.07

Conducted research on causal inference and machine learning under the supervision of Prof. ZHAN Ruohan.

Data Science Intern, Weixin Group, Tencent (Shenzhen, China) 2024.09 – 2025.07

Performed data analysis, statistical modeling, and experimental design for large-scale recommendation systems.

Software Engineer, Shenzhen Institute of Computing Sciences (Shenzhen, China) 2023.07 – 2024.08

- Developed database drivers and tools in C, Python, and SQL.
- Designed and implemented APIs for YashanDB to enable seamless integration with C and Python applications.
- Built a specialized SQL command-line tool analogous to Oracle's `sqlplus`.

Teaching & Service

Executive Committee Member, Student Union, School of Mathematics and Statistics, WHU

Coordinated student activities and liaised with university departments and academic societies.

Team Leader, “Learning Nation” Volunteer Service Team, WHU

Organized and managed a volunteer initiative that recruited hundreds of students to provide free tutoring in core mathematics courses. Personally contributed over 100 tutoring hours; the initiative received recognition and media coverage.

Skills

Python (NumPy, Pandas, Matplotlib, PyTorch), C, SQL, LaTeX, Git

Languages

Mandarin Chinese (Native), English (IELTS 6.5), Cantonese (Comprehension)

Interests

Music, travel, and sports.