LIU Liangjie

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EDUCATIONAL BACKGROUND

National University of Singapore   *Ph.D. in Industrial Systems Engineering & Management*
2025.08 – Present

- **Supervisor:** Prof. WANG Tong
- **Research interests:**
  Data-driven decision making, reinforcement learning and supply chain optimization

The Hong Kong University of Science and Technology   *M.Sc. in Data-Driven Modeling*
GPA: 4.06/4.3
2024.09 – 2025.07

- **Research interests:** Machine learning, algorithms, and causal inference
- **Relevant Courses:** Statistical Machine Learning(A+), Computational and Modeling Tools(A+), Deep Learning, Algorithm and Object-Oriented Programming, Stochastic Processes etc

Wuhan University   *B.S. in Mathematics and Applied Mathematics*
2019.09 – 2023.06
Advisor: Prof. Suoqin Jin

- Interested in various fields (statistics, computer science and operations research)
- **Relevant Courses**: Mathematical Analysis, Advanced Algebra, Probability Theory, Mathematical statistics, Optimization Theory and Methods, Numerical Analysis, Real Analysis, Functional Analysis, Microeconomics, Risk Management, Artificial Intelligence and Big Data, Mathematical Experiment etc
- **Dissertation:** *Graph Neural Network-based Clustering of Spatial Transcriptomic Data*
- **Honors**:
  2023 WHU Outstanding Graduate (top 10% performance)
  2021 WHU Third-Class Scholarship (top 20% performance)
  2021 WHU Outstanding Student Leader (top 10% performance)
  2021 WHU Outstanding Student (top 20% performance)
  2020 WHU Second-Class Scholarship (top 15% performance)
  2020 WHU Merit Student (top 10% performance)

PROFESSIONAL EXPERIENCE

The Hong Kong University of Science and Technology   Hong Kong, China
Department of Industrial Engineering and Decision Analytics
Research Assistant   2024.07 – Present

- Collaborating with Prof. ZHAN Ruohan on research related to causal inference and machine learning

Weixin Group, Tencent   Shenzhen, China
Intern in Data Science   2024.09 – Present

- Conducting data analysis, modeling, and experimental design for recommendation systems

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

- Developed database drivers and tools using C, Python, and SQL
- Built application programming interfaces (APIs) for YashanDB, enabling seamless interaction with applications written in C and Python
- Designed a specialized SQL tool with a command-line interface, similar to Oracle's sqlplus

EXTRACURRICULAR ACTIVITIES

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

- Directed the activities of the Student Union and coordinated with various student groups

"Learning Nation" Volunteer Service Team   Wuhan University

- Served as team leader, overseeing planning, coordination, and communication with university departments, and recruited hundreds of volunteers to provide free tutoring for core math courses
- Contributed over 100 hours to mathematics tutoring, earning recognition and media coverage

ADDITIONAL INFORMATION

- Skills: Python (NumPy, Pandas, Matplotlib, PyTorch), LaTeX, Git, C, SQL
- Languages: Mandarin Chinese (Native); English (IELTS: 6.5); Cantonese (Comprehension)
- Interests: Music, Travel, Sports