**LIU Liangjie**

**Date of Birth:** 29/09/2002 **Contact:** +65 81037399 **Email:** [liangjie\_liu@outlook.com](mailto:liangjie_liu@outlook.com)

**Educational Background**

**National University of Singapore (NUS)** *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 (HKUST)** *M.Sc. in Data-Driven Modeling*

GPA: 3.96/4.3

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, Numerical Methods and Modeling (A+), Quantitative Time Series Analysis (A+), Algorithm and Object-Oriented Programming, Stochastic Processes etc

**Wuhan University (WHU)** *B.S. in Mathematics and Applied Mathematics*

2019.09 – 2023.06

* Interested in various fields (statistics, computer science and optimization)
* **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* (Supervisor: Prof. JIN Suoqin)

* **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 – 2025.07

* 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 – 2025.07

* 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