

Jiaqi Liu

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RESEARCH INTERESTS

- **Core Expertise:** Distributed Systems, Federated Learning, and Graph Neural Networks.
- **Emerging Interests:** Enhancing the reasoning capabilities of Large Language Models (LLMs) and extending them into intelligent multimodal systems (VLMs) for complex real-world applications.

EDUCATION BACKGROUND

- **Wuhan University** 2023.09 - Now
Undergraduate, Software Engineering Wuhan, China
GPA: 3.78 / 4.00

PUBLICATIONS

- [1] **FedSDR: Federated Graph Learning with Structural Noise Detection and Reconstruction**
Jiaqi Liu[†], Zihan Tan[†], Guancheng Wan, Wenke Huang, He Li, Mang Ye
The IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2026)
Highlight Presentation

EXPERIENCE

- **The Hong Kong University of Science and Technology (HKUST)** 2025.10 - Now
Research Assistant, Advisor: Qiang Yang Remote
 - Developed models on large-scale simulated astronomical data to learn visual representations.
 - Implemented the trained models on real-world observations to identify galaxy mergers.
- **MARS Lab in Wuhan University** 2025.01 - Now
Research Assistant, Advisor: Mang Ye Wuhan, China

AWARDS

- **Scientific Innovation Pioneer (Sole Recipient in the School)** 2026.03
The 4th CS Pioneer Student of the Year (awarded to only 1 out of all BS, MS, and PhD students)
- **National First Prize, Challenge Cup Competition (Top 0.07% nationwide)** 2025.11
Awarded for outstanding Science Academic Papers in China's premier collegiate scientific competition
- **Fiberhome Communication Scholarship** 2025.11
Highly competitive corporate scholarship awarded for comprehensive academic excellence
- **Outstanding Student Scholarship** 2025.09
Awarded to the top 10% of students in the School of Computer Science
- **Lei Jun Computer Innovation and Development Fund** 2025.05
Research grant awarded to support undergraduate innovative projects

SKILLS

- **Programming Languages:** Python, C/C++, Java
- **Research Skills:** Federated Learning, Graph Neural Network, Computer Vision, AI for Science