Xiangyuan Xue

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Education Background

The Chinese University of Hong Kong August 2025 - July 2029 (Expected)
Doctor of Philosophy in Information Engineering (Multimedia Laboratory) Hong Kong SAR, China
- Funded by the Hong Kong PhD Fellowship Scheme
- Research Interests: Large Language Models, Multi-agent Systems, Reinforcement Learning

Shanghai Jiao Tong University September 2021 - June 2025
Bachelor of Engineering in Artificial Intelligence (Honor Class) Shanghai, China
- GPA 95.44/100, Rank 1/94
- A+ Courses: Mathematical Analysis, Linear Algebra, Algorithm Design, Deep Learning, and 34 others

Selected Honors

Hong Kong PhD Fellowship April 2025
- Attracting top-tier students from all over the world to pursue their PhD studies in Hong Kong

Outstanding Graduate in Shanghai June 2025
- Awarded to top 5% undergraduate students graduating from universities across Shanghai

National Scholarship (Three Times) December 2022, 2023, 2024
- Awarded to top 0.2% students nationwide, funded by the Chinese Ministry of Education

First-Class Academic Excellence Scholarship (Three Times) December 2022, 2023, 2024
- Highest academic scholarship awarded to top 1% students in Shanghai Jiao Tong University

Selected Publications

CoMAS: Co-Evolving Multi-Agent Systems via Interaction Rewards Fall 2025
Accepted by ICLR 2026 (First Author) Advisor: Prof. Wanli Ouyang & Dr. Zhenfei Yin
- Propose a novel framework that enables multiple agents to self-improve autonomously by learning from intrinsic reward signals from inter-agent interactions without external supervision. [Paper]

ComfyBench: Benchmarking LLM-based Agents for Designing Collaborative AI Systems Summer 2024
Accepted by CVPR 2025 (First Author) Advisor: Prof. Wanli Ouyang & Dr. Lei Bai
- Propose a benchmark for LLM-based agents to autonomously design collaborative AI systems in ComfyUI, along with a well-performing multi-agent framework to solve the tasks. [Paper]

ReSo: A Reward-driven Self-organizing Multi-Agent System for Reasoning Tasks Spring 2025
Accepted by EMNLP 2025 (Third Author) Advisor: Dr. Lei Bai & Dr. Zhenfei Yin
- Propose a multi-agent system which integrates task graph generation with a reward-driven two-stage agent selection process, achieving state-of-the-art performance on reasoning tasks. [Paper]

Internship Experience

Shanghai Artificial Intelligence Laboratory May 2024 - Present
Trainee Researcher, AI for Science Group Shanghai, China
- Research on the topics of large language models and multi-agent systems under the supervision of Prof. Wanli Ouyang and Dr. Lei Bai, producing multiple publications at top-tier conferences.