Xiangyuan Xue

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Education

Shanghai Jiao Tong University September 2021 - June 2025 (Expected)
Bachelor of Engineering in Artificial Intelligence (Honor Class) Shanghai, China

- **GPA 95.44/100, Rank 1/94**
- A+ Courses: Mathematical Analysis, Linear Algebra, Linear and Convex Optimization, Stochastic Processes, Design and Analysis of Algorithms, Deep Learning and Its Applications, and 32 others

Selected Honors

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

Guozhi Class Program Membership November 2021

- Training program for top-notch talents in AI jointly established by SJTU and Shanghai AI Lab

Zhiyuan Honors Program Membership September 2021

- Honor program dedicated to cultivate scientific leaders in Shanghai Jiao Tong University

Research Experience

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]

Position: Scaling LLM-based Multi-agent Systems Calls for Systematical Design Spring 2025
Submitted to ICML 2025 Position Paper Track (Second Author) Advisor: Dr. Lei Bai & Dr. Zhenfei Yin

- Position the scaling of LLM-based multi-agent systems as a complex systematical design, presenting an envisioned framework for the futuristic large-scale multi-agent systems.

ReSo: A Reward-driven Self-organizing Multi-Agent System for Reasoning Tasks Spring 2025
Submitted to ACL ARR 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.

Internship Experience

Shanghai AI Laboratory May 2024 - Present
Research Intern, 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 the ComfyBench work as the first author.

Skills

- **Language**: Chinese (Native), English (CET-6 619, TOEFL 98)
- **Programming**: C++, C# (WinForm), Python (PyTorch), LaTeX
- **Expertise**: Large Language Models, Multi-agent Systems, Reinforcement Learning