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.   [Paper]

💼 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