JIAQI SU

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Education

Shanghai Jiao Tong University — Shanghai
B.Eng. in Electric Power Engineering and Automation — *Expected in 06/2026*

Experience

UIUC Ulab & OpenManus Team — Urbana, IL
Research Intern — *May 2025 – Present*
- Advised by Prof. Jiaxuan You.
- Focus: Multi-agent protocols and GUI agent.

SJTU CMIC — Shanghai
Research Intern — *May 2024 – May 2025*
- Advised by Prof. Siheng Chen.
- Focus: Multi-agent system evaluation and coordination strategies.

Research Experience

Which LLM Multi-Agent Protocol to Choose?
- Designed four experimental scenarios and corresponding metrics to enable fair comparison of four multi-agent protocols: A2A, ACP, ANP, and Agora, providing insights of the different advantages of each protocol at different scenarios.
- Developed a meta-protocol with an intelligent router to dynamically select the most suitable protocol for a given scenario.
- Submitted to *ICLR 2026* (Co-first author).

MASLab: A Unified and Comprehensive Codebase for LLM-based Multi-Agent Systems
- Proposed MASLab, a unified and extensible codebase integrating 20+ LLM-based multi-agent methods, with standardized benchmarks and evaluation protocols for reproducible research and fair comparison.
- Led refactoring of multi-agent debate and ADAS repositories, and constructed math datasets.
- Submitted to *ICLR 2026*.

Synthetic Data Generation for Autonomous Driving
- Proposed a 3D Gaussian Splatting-based simulator for realistic and efficient autonomous driving data generation.
- Responsible for closed-loop evaluation and autonomous driving model training to enhance model robustness.
- Accepted by *ICCV 2025*.

Training Optimization and Inference Acceleration for Reasoning LLMs (Challenge Cup 2025)
- Developed training and deployment pipelines for large reasoning models using GRPO and PPO based on veRL, and enabling efficient inference on NPUs.
- Took primary responsibility for inference optimization, including speculative decoding and heterogeneous model deployment across CPU and NPU to accelerate performance.
- Collaborated with Prof. Erhu Feng and Prof. Muning Wen, achieving the **second place nationwide** in the competition.

Research Interests

- Multimodal Agentic Reinforcement Learning.
- World Model for Multimodal agent.
- Multi-Agent System Design.