

Jiajun Liu

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 JEdward |  JEdward |  Personal Website



BASIC INFORMATION

- **Education:** *Bachelor's degree* (2023 - 2027), Gaoling School of Artificial Intelligence, Renmin University of China
- **Academic Performance:** GPA: 3.87/4.00 (Rank 3 / 60), ranking 1-st in the first and fourth semester
- **Research Interest:** Spatial Intelligence, RL, Gen AI, aiming to empower embodied agents with world models
- **Language Proficiency:** Mandarin (Native), English (Fluent speaker, CET-6 Test Score: 604; Oral: Excellent)
- **Professional Skills:** Linux development, Python, C/C++, PyTorch



RESEARCH EXPERIENCE

-  **Research Intern, GSAI-ML Group, Renmin University, China** Jan 2025 - Aug 2025
 - **Advisor:** [Chongxuan Li](#)
 - **Topic:** 3D world models for explorable scene generation from a single image or text prompt, with prototype implementations combining 3DGS and diffusion models, contributing to an upcoming submission for ICLR 2026.
-  **Research Intern, MLL-Lab, Northwestern University, USA** Jun 2025 - Present
 - **Mentor:** [Manling Li](#)
 - **Topic:** Reasoning Models and Spatial VLM. Developing RL-based agents with tool-use abilities to generate novel-view images, and evaluated how these views improve performance on spatial intelligence tasks, in collaboration with Microsoft.







PUBLICATION LIST

1. Wenqi Zhang*, Mengna Wang*, Gangao Liu, Huixin Xu, Yiwei Jiang, Yongliang Shen, Guiyang Hou, Zhe Zheng, Hang Zhang, Xin Li, **Jiajun Liu**, Weiming Lu, Peng Li, Yueting Zhuang. *Embodied Reasoner: Synergizing Visual Search, Reasoning, and Action for Embodied Interactive Tasks*, Preprint.

PROJECT EXPERIENCE

- **Embodied Reasoner (With OSPP's funding, 150+ Github Stars)** *Main contributor* 
 - Embodied-Reasoner (ER.) is a multimodal model designed for deep reasoning & long-horizon interaction. In OSPP, similar to GSoC, [AGIROS Community](#) selected me as the contributor in charge of ER. from all the applicants. I've committed to testing ER. on Alfred. And I'm contributing to resolving two key bottlenecks — ambiguity in identical object instances & imprecise targeting of large objects, aiming to further improve spatial accuracy and interaction robustness.
- **RAGEN & VAGEN: Training Agents by Reinforcing Reasoning (With 2.2k+ Github Stars)** *Contributor* 
 - This twin of projects empower agents with RL to operate effectively in interactive and stochastic environments by handling multi-turn interactions and environmental uncertainty. I contributed to developing more environments and mask functions to compute the loss only for the parts generated by the model, which actually made training more stable.

SELECTED AWARDS AND SCHOLARSHIP

- **Silver Medal, International Collegiate Programming Contest (ICPC) East-Asia Continent Final** Dec 2024
Awarded by ICPC Foundation 
- **Gold Medal, "Xiaomi Cup" China Collegiate Programming Contest (CCPC) Invitational Contest** Apr 2025
Awarded by CCPC Committee and Xiaomi 
- **Silver Medal, 2024 CCF Collegiate Computer Systems & Programming Contest (CCSP)** Oct 2024
Awarded by China Computer Federation (CCF) 
- **Top 2.6% out of 22k+ Globally, 2024 Meta Hacker Cup Human track** Oct 2024
Awarded by Meta 
- **2025 "Linghang" Intellectual Excellence Dean's Scholarship** Dec 2024
Awarded by ByteDance and Gaoling School of Artificial Intelligence 
- **National Second Prize, Chinese Physics Olympiad for High School Students (CPhO)** Oct 2021
Awarded by Chinese Physics Olympiad Committee 

SERVICES AND PRESENTATIONS

- **Video: "My Experience Using AI+ Tools to Create Videos"** Oct 2024
Invited by China Computer Federation (CCF) for 2024 *China National Computer Conference (CNCC) Super Forum* 
- **Talk: "Algorithm and Artificial Intelligence"** Mar 2025
Invited by Student Union & Gaoling School of Artificial Intelligence | Invited by Information School  