

# Jiajun Liu

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## 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 / 58), ranking 1-st in the first and fourth semester
- Research Interest:** Spatial Intelligence, World Model, Embodied AI
- Language Proficiency:** Mandarin (Native), English (Fluent speaker, CET-6 Test Score: 604; Oral: Excellent)
- Professional Skills:** Linux development, Python, C/C++, PyTorch

## RESEARCH EXPERIENCE

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|---|---------------------|
| <b>Research-Intern, Xu-Lab, Tsinghua University &amp; Qizhi Institute, China</b>  | Oct 2025 - Present  |
| ◦ Mentor: Mengdi Xu   |                     |
| ◦ Topic: In-context robot learning in real-world manipulation   |                     |
| <b>Research Intern, MLL-Lab, Northwestern University, USA</b>   | Jun 2025 - Sep 2025 |
| ◦ Advisor: Manling Li   |                     |
| ◦ Topic: RL-based VLM agents with tool-use abilities to get novel-view images to help improve performance on spatial intelligence tasks, in collaboration with Microsoft. |                     |
| <b>Research Intern, GSAI-ML Group, Renmin University, China</b>   | Jan 2025 - Aug 2025 |
| ◦ Advisor: Chongxuan Li Jun Zhu   |                     |
| ◦ Topic: 3D world model for explorable scene generation from a single image or text prompt.   |                     |

## PUBLICATION LIST

1. **Jiajun Liu**, Chenyu Zhang, Ruoqu Chen, Liu Cao, Yankai Lin, Mengdi Xu. *RoboRetry: In-context Adaptation from Manipulation Failures for VLAs*, Preprint.
2. Chendong Xiang\*, **Jiajun Liu\***, Jintao Zhang\*, Xiao Yang, Zhengwei Fang, Shizun Wang, Zijun Wang, Yingtian Zou, Hang Su, Jun Zhu. *Geometry-Aware Rotary Position Embedding for Consistent Video World Model*, Preprint.
3. 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*, Annual Meeting of the Association for Computational Linguistics (ACL), 2026.

## OPEN-SOURCE PROJECT EXPERIENCE

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|---|-------------------------|--|
| <b>• Embodied Reasoner (With OSPP's funding, 180+ Github Stars)</b>   | <i>Main contributor</i> |  |
| ◦ 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 contributed to resolving two key bottlenecks — ambiguity in identical object instances & imprecise targeting of large objects, further improving spatial accuracy and interaction robustness. |                         |  |
| <b>• RAGEN &amp; VAGEN: Training Agents by Reinforcing Reasoning (With 2.5k+ Github Stars)</b>  | <i>Contributor</i>      |  |
| ◦ 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 & SCHOLARSHIP

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| <b>• Silver Medal, International Collegiate Programming Contest (ICPC) East-Asia Continent Final</b>     | Dec 2024 |  |
| Awarded by ICPC Foundation   |          |  |
| <b>• Gold Medal, International Collegiate Programming Contest (ICPC) Asia Continent Regional (Wuhan)</b> | Nov 2025 |  |
| Awarded by ICPC Foundation   |          |  |
| <b>• Gold Medal, "Xiaomi Cup" China Collegiate Programming Contest (CCPC) Invitational Contest</b>       | Apr 2025 |  |
| Awarded by CCPC Committee and Xiaomi   |          |  |
| <b>• Silver Medal, 2024 CCF Collegiate Computer Systems &amp; Programming Contest (CCSP)</b>             | Oct 2024 |  |
| Awarded by China Computer Federation (CCF)   |          |  |
| <b>• Most Potential Award, Open Source Promotion Plan (OSPP) 2025</b>                                    | Dec 2024 |  |
| Awarded by Institute of Software, Chinese Academy of Sciences (ISCAS) and Huawei                         |          |  |

• <b>National Scholarship</b> Awarded by Ministry of Education of the People's Republic of China	Sep 2025 
• <b>“Linghang” Intellectual Excellence Dean’s Scholarship</b> Awarded by ByteDance and Gaoling School of Artificial Intelligence	Dec 2024 
• <b>National Second Prize, Chinese Physics Olympiad for High School Students (CPhO)</b> Awarded by Chinese Physics Olympiad Committee	Oct 2021 

## SERVICES AND PRESENTATIONS

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• <b>Reviewer:</b> <a href="#">ICLR 2026 World Models Workshop</a>	
• <b>Video:</b> “My Experience Using AI+ Tools to Create Videos” Invited by China Computer Federation (CCF) for <i>China National Computer Conference (CNCC) Super Forum</i>	Oct 2024 
• <b>Talk:</b> “Algorithm and Artificial Intelligence” Invited by Student Union & Gaoling School of Artificial Intelligence   Invited by Information School	Mar 2025 