Jiting Liu

Third-year Undergraduate Student in Mathematics · Expected graduation 2028

liujiting616@gmail.com · GitHub · Google Scholar · jitingliu.com

Google Scholar: 163 citations · Project GitHub Stars: 488

RESEARCH INTERESTS

My long-term goal is to build **general-purpose embodied intelligence**: agents that can understand goals, solve unseen tasks in open environments, and continually acquire new capabilities through interaction. I focus on the models and learning mechanisms that support this goal, especially:

- **General-purpose policy learning**: Translating knowledge from language, video, and robotic experience into action capabilities that transfer across tasks and embodiments, reducing the task-specific demonstrations needed to learn new skills.
- **Memory and long-horizon reasoning**: Organizing and using interaction histories to track task progress and support long-horizon decisions informed by current observations and execution feedback.
- **Recursive self-improvement**: Using interaction feedback to improve policies and their learning mechanisms, with each improved system driving the next cycle of experience acquisition, evaluation, and updating.

EDUCATION

SICAU · 2024–2028 (expected)

B.Sc. in Mathematics (undergraduate)

Academic rank: 7 / 183

RESEARCH EXPERIENCE

School of Computing and Data Science, The University of Hong Kong · 2026 (through October)

Research Assistant — Taku Komura's group · Miro Dynamics–HKU CGVU Joint Lab

Project: *MiroCap*

Mentors: Zhouyingcheng Liao and Dr. Wenjia Wang.

- Contributed to cross-embodiment action retargeting by translating standardized interaction representations into executable robot behaviors while preserving task intent, object motion, and contact structure across robot embodiments.
- Completed the HKU CDS Summer Research Internship Programme 2026 for the research project *Data-Driven Cross-Embodiment Action Retargeting for Dexterous Robot Manipulation* (certificate).

Shanghai Jiao Tong University · 2025–2026

Research Assistant · MINT Lab · Prof. Bo Zhao's group

Research mentors: Prof. Gen Li, Tao Lin, and Yuxin Du.

Research focus: embodied intelligence and vision-language-action models.

- Co-first author of Evo-Depth (NeurIPS 2026); responsible for model design, code implementation, training, and evaluation.
- Co-author of Focusable Monocular Depth Estimation (NeurIPS 2026).
- Co-author of Evo-1 (CVPR 2026).

PUBLICATIONS

Accepted Papers

1. **Evo-Depth: A Lightweight Depth-Enhanced Vision-Language-Action Model**
   Tao Lin*, Yuxin Du*, **Jiting Liu***, et al. · *NeurIPS 2026* · **Co-first author**

2. **Focusable Monocular Depth Estimation**
   Yuxin Du, Tao Lin, Zile Zhong, Runting Li, Xiyao Chen, **Jiting Liu**, et al. · *NeurIPS 2026*

3. **Evo-1: Lightweight Vision-Language-Action Model with Preserved Semantic Alignment**
   Tao Lin, Yilei Zhong, Yuxin Du, Jingjing Zhang, **Jiting Liu**, et al. · *CVPR 2026* · pp. 13397–13406

Preprints

4. **MorphAct: Robot Policies Morphing with the Worlds They Act In**
   Ziyan Liu*, **Jiting Liu***, Weihong Zhong*, et al. · arXiv:2610.20019, 2026 · **Co-first author**

5. **MiroCap: Multi-view Human Interaction Reconstruction for Robot Loco-Manipulation Learning**
   Zhouyingcheng Liao*, Kaiyang Ji*, Boran Wang*, **Jiting Liu***, et al. · arXiv, 2026 · **Co-first author**

6. **LA4VLA: Learning to Act without Seeing via Language-Action Pretraining**
   Tao Lin, Yuxin Du, Yiran Mao, Zewei Ye, Yilei Zhong, Bing Cheng, Yiming Wang, **Jiting Liu**, et al. · arXiv:2606.27295, 2026

7. **Evo-0: Vision-Language-Action Model with Implicit Spatial Understanding**
   Tao Lin, Gen Li, Yilei Zhong, Yanwen Zou, Yuxin Du, **Jiting Liu**, et al. · arXiv:2507.00416, 2025

ACADEMIC SERVICE

Invited Reviewer, NeurIPS 2026.