Jiting Liu 刘纪霆

Third-year Undergraduate in Mathematics · Embodied AI

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GitHub · Google Scholar
Google Scholar: 170 citations

RESEARCH INTERESTS

My research interests lie in **embodied AI**, particularly how a single robot policy can keep extending to new tasks and embodiments, and how it can keep improving from the experience it gathers while acting.

EDUCATION

Sichuan Agricultural University
2024 – 2028 (expected)

*B.S. in Mathematics · Major rank **7 / 183***

RESEARCH EXPERIENCE

Peking University Shenzhen Graduate School
Nov 2026 – Present

Research Intern · Prof. Li Yuan's group

National University of Singapore (NUS)
2026 – Present

Remote Research · Mentor: Dr. Kai Wang

- **MorphAct** (co-first author, ICLR 2027 under review): diagnosed conflicting parameter updates across manipulation skills —on 65 RoboCasa365 atomic tasks, each update raises the loss of 22–46 other tasks. Built contextual parameter generation, in which two coupled generators produce low-rank updates for the VLM and action modules from the current observation, instruction, and robot state. Added to X-VLA / π0 / π0.5, it improves Meta-World success by **7.57** / **16.30** / **15.72** points.

The University of Hong Kong
Summer 2026 – Oct 2026

Research Assistant · Miro Dynamics–HKU CGVU Joint Lab, Prof. Taku Komura's group
Mentors: Zhouyingcheng Liao and Dr. Wenjia Wang.

- **Cross-embodiment action retargeting**: turned human–object interactions into executable motions and training data for dexterous hands and robot arms, using an Interaction-Mesh retargeting solver and a shared PPO policy over the whole motion bank.
- Completed the HKU CDS Summer Research Internship Programme 2026 — *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
Mentors: Prof. Gen Li, Tao Lin, and Yuxin Du.

- **Evo-Depth** (co-first author, NeurIPS 2026): proposed injecting implicit depth features from RGB into the vision-language representation via **FiLM** modulation to strengthen the VLA's spatial perception, with no depth sensor. Meta-World **84.4%** (Evo-1: 80.6%), LIBERO **95.4%**, LIBERO-Plus **69.6%** (π0-FAST: 53.6%).
- Contributed to **Evo-0**, **Evo-1** (CVPR 2026), **Focusable Monocular Depth Estimation** (NeurIPS 2026), and **LA4VLA**.

PUBLICATIONS

Co-first-author Papers (* equal contribution)

1. **Evo-Depth: A Lightweight Depth-Enhanced Vision-Language-Action Model** NeurIPS 2026
   Tao Lin*, Yuxin Du*, **Jiting Liu***, Nuobei Zhu, Yunhe Li, et al.
2. **MorphAct: Robot Policies Morphing with the Worlds They Act In** ICLR 2027 (under review) · arXiv:2610.20019
   Ziyan Liu*, **Jiting Liu***, Weihong Zhong*, Wenda Yu, Yeqiu Chen, et al.

Other Papers

1. **Evo-1: Lightweight Vision-Language-Action Model with Preserved Semantic Alignment** CVPR 2026
   Tao Lin, Yilei Zhong, Yuxin Du, Jingjing Zhang, **Jiting Liu**, et al.
2. **Focusable Monocular Depth Estimation** NeurIPS 2026
   Yuxin Du, Tao Lin, Zile Zhong, Runting Li, Xiyao Chen, **Jiting Liu**, et al.

ACADEMIC SERVICE

Reviewer, NeurIPS 2026