Guo Jingxiang

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Education

National University of Singapore **Aug. 2025 – Present**
Master of Computing in Artificial Intelligence *Singapore*

Harbin Institute of Technology, Shenzhen **Sep. 2021 – Jul. 2025**
Bachelor of Engineering in Automation — GPA: 3.7/4.0 (Ranking: Top 20%) *Shenzhen, China*

National University of Singapore **Jul. 2024 – May. 2025**
NGNE Program *Singapore*

Research Experience

RLGroup Lab, HITsz **Oct 2022 – Jun 2024**
Research Assistant — Advisor: Yanjie Li *Shenzhen, China*
- Investigated Adaptive Logarithmic Basis Policy Gradient algorithms and proposed a Multi-agent Reinforcement Learning method to improve locomotion learning for a single quadruped robot.

LinS Lab, NUS **Jul 2024 – May 2025**
Research Assistant — Advisor: Lin Shao *Singapore*
- Developed a user-friendly teleoperation data collection system, a cross-embodiment dexterous grasping method, and a world model-driven Vision-Language-Object-Action model.

ScaleLab, SJTU **May 2025 – Aug 2025**
Research Intern — Advisor: Yao Mu *Shanghai, China*
- Developed a vision–tactile data collection pipeline to support a benchmark towards foundation visuo-tactile policy learning.

CLeAR lab, NUS **Aug 2025 – Present**
Research Intern — Advisor: Harold Soh *Singapore*
- Developing a tactile foundation model for heterogeneous sensors.

Employment Experience

Horizon Robotics **Jun 2025 – Aug 2025**
Cloud Platform Intern — Mentor: Yusen Qin *Shanghai, China*
- Participated in conducting a workshop on benchmarking generalizable bimanual manipulation using the robotwin platform.

Autolife Robotics **Aug 2025 – Present**
Robot Software System Intern — Mentor: Siwei Chen *Singapore*
- Working on wheel-based humanoid software system development and implementation.

Selected Publications

1. Haonan Chen*, **Jingxiang Guo***, Bangjun Wang, Tianrui Zhang, Xuchuan Huang, Boren Zheng, Yiwen Hou, Chenrui Tie, Jiajun Deng, Lin Shao, "**Goal-VLA: Image-Generative VLMs as Object-Centric World Models Empowering Zero-shot Robot Manipulation**". Poster Presentation, IROS 2025 @ Human-in-the-loop Robot Learning [Web]
2. **Jingxiang Guo***, Jiayu Luo*, Zhenyu Wei*, Yiwen Hou, Zhixuan Xu, Xiaoyi Lin, Chongkai Gao, Lin Shao, "**TelePreview: A User-Friendly Teleoperation System with Virtual Arm Assistance for Enhanced Effectiveness**". Accepted to ICRA 2025 @ Human-Centric Multilateral Teleoperation, **Best Paper Award**. [Web]
3. Zhenyu Wei*, Zhixuan Xu*, **Jingxiang Guo**, Yiwen Hou, Chongkai Gao, Zhehao Cai, Jiayu Luo, Lin Shao, "$\mathcal{D}(\mathcal{R}, \mathcal{O})$ **Grasp: A Unified Representation of Robot and Object Interaction for Cross-Embodiment Dexterous Grasping**". ICRA 2025 (**Best Paper Award on Robot Manipulation and Locomotion**); CoRL 2024 @ MAPoDeL, **Best Robotics Paper Award** & **Oral Presentation**; CoRL 2024 @ LFDM, **Spotlight Presentation**. [Web]

Awards

Best Robotics Paper Award in CoRL 2024 @ MAPoDeL **Nov 2024**
National First Prize in RoboMaster University Championship (RMUC) **Mar 2023**
National First Prize in The 6th China Intelligent Robots Innovation Competition **Jul 2023**
Provincial First Prize in China Undergraduate Mathematical Contest in Modeling (CUMCM) **Sep 2023**
Honorable Mention in Mathematical Contest in Modeling (MCM) **Mar 2023**

Miscellaneous

Languages: English (IELTS 7.5, GRE 321), Chinese (Native)
Academic Service: Reviewer for ICRA 2025, ICRA 2026, RA-L, IROS 2025, CVPR 2025
Programming: Python, C/C++, MATLAB, HTML, CSS, JavaScript
Tools: SOLIDWORKS, ROS, PCB Design, STM32, Arduino, WebXR, LaTeX
Interests: Trekking and climbing