Luo Jiayu

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Education	
National University of Singapore MS in Computing (Computer Science Specialisation)	Aug 2024 – Present
 GPA: 4.67/5.00 Beijing Institute of Technology BS in Computer Science and Technology 	Sep 2020 – Jun 2024
• GPA: 3.7/4.0 McGill University <i>Visiting Student</i>	Jul 2023 – Aug 2023
• GPA: A/A Publications	
TelePreview: A User-Friendly Teleoperation System with Virtual Arm Assistance for Enhanced Effectiveness	Jan 2025
Jingxiang Guo [*] , Jiayu Luo[*] , Zhenyu Wei [*] , Yiwen Hou, Zhixuan Xu, Xiaoyi Lin, Chongkai Gao, Lin Shao	
Submitted to RA-L Z Task Allocation: Jingxiang Guo was responsible for completing the hand pose retarge handled human body retargeting, wrist pose estimation, AprilTag spatial alignment, experiments. Zhenyu Wei contributed to preview visualization, IO control, and experi D(R, O) Grasp: A Unified Representation of Robot and Object Interac- tion for Cross-Embodiment Dexterous Grasping	preview visualization, and
Zhenyu Wei [*] , Zhixuan Xu [*] , Jingxiang Guo, Yiwen Hou, Chongkai Gao, Zhehao Cai, Jiayu Luo , Lin Shao	
Best Robotics Paper Award @ CoRL 2024 Workshop MAPoDeL	
Experience Research Intern	NUS, Singapore
LinS Lab (Supervised by Lin Shao \mathbf{Z})	Aug 2024 – Present
 Focus on Robotics Manipulation, with an emphasis on imitation learning and tel Conduct research on few-shot, multi-task imitation learning 	eoperation
Mechanical Internship Research Center, Ubtech	Shenzhen, China Jul 2022 – Aug 2022
• Implemented a target tracking algorithm, including kernelized correlation filter code performance by measuring the average Frames Per Second (FPS)	s, and rigorously assessed
• Enhanced the tracker's functionality to dynamically update specific parameters in rate tracking as the object's scale evolves	n real-time, ensuring accu-
\circ Integrated Siam RPN algorithm to replace the LibTorch dependency with OpenV	INO
Projects	
$ \begin{array}{c} \mathbf{Quatitive\ Manipulation\ Based\ on\ Imitation\ Learning\ (Ongoing\ Research)}\\ \mathit{LinS\ Lab} \end{array} $	NUS, Singapore 2025
• Use demonstrations to teach robots the concept of quantity, enabling them to perf a precise amount of water and beans	form tasks such as pouring

• Key Words: Imitation Learning, Reinforcement Learning

Campus Food Delivery Robot

Beijing Institute of Technology

- $\circ\,$ Built a Chinese text recognition model, tailored to efficiently recognize and extract essential information from takeaway receipts
- $\circ\,$ Empowered robots with autonomous navigation capabilities, enabling them to autonomously execute food delivery tasks
- Key Words: Deep Learning, Computer Vision

Honors & Awards

- Beijing Institute of Technology Outstanding Student Scholarship 2020-2024
- \circ Excellence Award for the 2021 College Student Innovative Entrepreneurial Training Plan Program for the 'Campus Food Delivery Robot'

Skills

Programing: Python, C/C++

Languages: Chinese, English (IELTS: 8.0, GRE: 324)