

ZHENYU WEI

✉ wzhenyu@cs.unc.edu  [zhenyuwei2003](https://github.com/zhenyuwei2003)  <https://zhenyuwei2003.github.io/>

EDUCATION

University of North Carolina at Chapel Hill, USA	Aug. 2025 - Present
<i>Ph.D. in Computer Science</i>	Advisor: Prof. Mingyu Ding
Shanghai Jiao Tong University, China	Sep. 2021 - Jun. 2025
<i>B.Eng. in Computer Science (Zhiyuan Honor Degree)</i>	GPA: 4.0/4.3

PUBLICATIONS

- [8] **One Hand to Rule Them All: Canonical Representations for Unified Dexterous Manipulation**
Zhenyu Wei, Yunchao Yao, Mingyu Ding
- [7] **When Vision Overrides Language: Evaluating and Mitigating Counterfactual Failures in VLAs**
Yu Fang, Yuchun Feng, Dong Jing, Jiaqi Liu, Yue Yang, Zhenyu Wei, Daniel Szafr, Mingyu Ding
- [6] **Mixture of Horizons in Action Chunking**
Dong Jing, Gang Wang, Jiaqi Liu, Weiliang Tang, Zelong Sun, Yunchao Yao, Zhenyu Wei, Yunhui Liu, Zhiwu Lu, Mingyu Ding
- [5] **RL-100: Performant Robotic Manipulation with Real-World Reinforcement Learning**
Kun Lei, Huanyu Li*, Dongjie Yu*, Zhenyu Wei*, Lingxiao Guo, Zhennan Jiang, Ziyu Wang, Shiyu Liang, Huazhe Xu*
- [4] **TelePreview: A User-Friendly Teleoperation System with Virtual Arm Assistance for Enhanced Effectiveness**
Jingxiang Guo, Jiayu Luo*, Zhenyu Wei*, Yiwen Hou, Zhixuan Xu, Xiaoyi Lin, Chongkai Gao, Lin Shao*
ICRA 2025 @ Human-Centric Multilateral Teleoperation Workshop (**Best Paper Award**)
- [3] **MetaFold: Language-Guided Cross-Category Garment Folding Framework via Trajectory Generation and Foundation Model**
Haonan Chen, Junxiao Li*, Ruihai Wu, Yiwei Liu, Yiwen Hou, Zhixuan Xu, Jingxiang Guo, Chongkai Gao, Zhenyu Wei, Shensi Xu, Jiaqi Huang, Lin Shao*
IROS 2025 (Oral)
- [2] **$D(\mathcal{R}, \mathcal{O})$ Grasp: A Unified Representation for Cross-Embodiment Dexterous Grasping**
Zhenyu Wei, Zhixuan Xu*, Jingxiang Guo, Yiwen Hou, Chongkai Gao, Zhehao Cai, Jiayu Luo, Lin Shao*
ICRA 2025 (**Best Paper Award on Robot Manipulation and Locomotion**)
CoRL 2024 @ MAPoDeL Workshop (**Best Robotics Paper Award**)
- [1] **Auto-Pairing Positives through Implicit Relation Circulation for Discriminative Self-Learning**
Bo Pang, Zhenyu Wei, Jingli Lin, Cewu Lu
TPAMI 2025 (IF: 18.6)

RESEARCH EXPERIENCE

University of North Carolina at Chapel Hill	Aug. 2025 - Present
<i>Ph.D. Student</i>	Advisor: Prof. Mingyu Ding
Shanghai Qi Zhi Institute · Tsinghua Embodied AI Lab	Feb. 2025 - Jul. 2025
<i>Research Intern</i>	Advisor: Prof. Huazhe Xu
National University of Singapore · LinS Lab	Jun. 2024 - Feb. 2025
<i>Research Assistant</i>	Advisor: Prof. Lin Shao
Shanghai Jiao Tong University · Machine Vision and Intelligence Group	Oct. 2022 - May 2024
<i>Research Intern</i>	Advisor: Prof. Cewu Lu

SELECTED HONORS

- **ICRA 2025 Best Paper Award on Robot Manipulation and Locomotion** 2025
- **Best Paper Award**, ICRA 2025 @ Human-Centric Multilateral Teleoperation 2025
- Zhiyuan Outstanding Scholarship (Top 30 Undergraduates at SJTU) 2025
- Shanghai Outstanding Graduate (Top 5% of Graduates at SJTU) 2025
- **Best Robotics Paper Award**, CoRL 2024 @ MAPoDeL 2024
- Outstanding Scholarship of Computer Science Alumni Fund (Top 5% in Major) 2024
- Huawei Scholarship (Top 5% in Major) 2023
- The Tung Foundation Scholarship (Top 5% in Major) 2022
- Zhiyuan Honors Scholarship (Top 10% Students at SJTU) 2021 - 2024

MISCELLANEOUS

Language	Chinese (native), English (TOEFL 104), Japanese (amateur)
Academic Service	Conference Reviewer for CVPR 2026, ICRA 2025 & 2026, IROS 2025, ICCV 2025 Journal Reviewer for JFR
Programming	Python, C/C++, \LaTeX , Linux, Git, HTML, CSS
Real Robots	xArm6, UR5, Franka, LeapHand, GaiaHand, Dex-3, Robotiq 2F-85