

# ZHENYU WEI

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## EDUCATION

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University of North Carolina at Chapel Hill, USA	Aug. 2025 - Present
<i>Ph.D. in Computer Science</i>	Advisor: Prof. <a href="#">Mingyu Ding</a>
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

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- [8] **One Hand to Rule Them All: Canonical Representations for Unified Dexterous Manipulation**  
*Zhenyu Wei, Yunchao Yao, Mingyu Ding*  
RSS 2026
- [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 Szafir, 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]  **$\mathcal{D}(\mathcal{R}, \mathcal{O})$  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

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

## SELECTED HONORS

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- **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

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