

ZHENYU WEI

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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

JOURNAL PUBLICATIONS

- [J2] **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*
 Science Robotics 2026 (5-year IF: 32.9)
- [J1] **Auto-Pairing Positives through Implicit Relation Circulation for Discriminative Self-Learning**
Bo Pang, Zhenyu Wei, Jingli Lin, Cewu Lu
 TPAMI 2025 (5-year IF: 20.4)

CONFERENCE PUBLICATIONS

- [C4] **One Hand to Rule Them All: Canonical Representations for Unified Dexterous Manipulation**
Zhenyu Wei, Yunchao Yao, Mingyu Ding
 RSS 2026
- [C3] **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
 ICML 2026
- [C2] **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
- [C1] **$\mathcal{D}(\mathcal{R}, \mathcal{O})$ 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**)

PREPRINTS

- [P7] **Handroid: Bridging Dexterous Hand and Humanoid**
Ruogu Li, Chenyang Ma, Sikai Li, Zhenyu Wei, Yunchao Yao, Haochen Shi, Karen Liu, Shuran Song, Mingyu Ding
- [P6] **Current as Touch: Proprioceptive Contact Feedback for Compliant Dexterous Manipulation**
Chenyang Ma, Yunchao Yao*, Zhenyu Wei*, Ruogu Li, Daniel Szafir, Mingyu Ding*
- [P5] **DexVerse: A Modular Benchmark for Multi-Task, Multi-Embodiment Dexterous Manipulation**
Yunchao Yao, Zhuxiu Xu*, Tianqi Zhang, Zixian Liu, Sikai Li, Zhenyu Wei, Feng Chen, Dihong Huang, Kechang Wan, Chenyang Ma, Shuqi Zhao, Shenghua Gao, Masayoshi Tomizuka, Yi Ma, Mingyu Ding*
- [P4] **DexCompose: Reusing Dexterous Policies for Multi-Task Manipulation with a Single Hand**
Dihong Huang, Zhenyu Wei, Zhuxiu Xu, Yunchao Yao, Sikai Li, Mingyu Ding

[P3] **CoorDex: Coordinating Body-Hand Priors for Continuous Dexterous Humanoid Loco-Manipulation**
Sikai Li, Shuning Li, Zhenyu Wei, Yunchao Yao, Chenran Li, Mingyu Ding

[P2] **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

[P1] **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)

RESEARCH EXPERIENCE

Genesis AI <i>Research Scientist Intern</i>	May. 2026 - Present Mentor: Dr. Zhenjia Xu
University of North Carolina at Chapel Hill <i>Ph.D. Student</i>	Aug. 2025 - Present Advisor: Prof. Mingyu Ding
Shanghai Qi Zhi Institute · Tsinghua Embodied AI Lab <i>Research Intern</i>	Feb. 2025 - Jul. 2025 Advisor: Prof. Huazhe Xu
National University of Singapore · LinS Lab <i>Research Assistant</i>	Jun. 2024 - Feb. 2025 Advisor: Prof. Lin Shao
Shanghai Jiao Tong University · Machine Vision and Intelligence Group <i>Research Intern</i>	Oct. 2022 - May 2024 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

MISCELLANEOUS

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