

ZHENYU WEI

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EDUCATION

University of North Carolina at Chapel Hill, USA

Aug. 2025 – Present

Ph.D. in Computer Science

Advisor: Prof. [Mingyu Ding](#)

Shanghai Jiao Tong University, China

Sep. 2021 – Jun. 2025

B.Eng. in Computer Science (Zhiyuan Honor Degree)

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
- [J1] **Auto-Pairing Positives through Implicit Relation Circulation for Discriminative Self-Learning**
Bo Pang, Zhenyu Wei, Jingli Lin, Cewu Lu
 IEEE TPAMI, 2025

CONFERENCE PUBLICATIONS

- [C6] **Current as Touch: Proprioceptive Contact Feedback for Compliant Dexterous Manipulation**
Chenyang Ma, Yunchao Yao*, Zhenyu Wei*, Ruogu Li, Daniel Szafr, Mingyu Ding*
 CoRL 2026
- [C5] **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
 CoRL 2026
- [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

- [P5] **Handroid: Bridging Dexterous Hand and Humanoid**
Ruogu Li, Chenyang Ma, Sikai Li, Zhenyu Wei, Yunchao Yao, Haochen Shi, Karen Liu, Shuran Song, Mingyu Ding
- [P4] **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*

[P3]

DexCompose: Reusing Dexterous Policies for Multi-Task Manipulation with a Single Hand

Dihong Huang, Zhenyu Wei, Zhuxiu Xu, Yunchao Yao, Sikai Li, Mingyu Ding

[P2]

CoorDex: Coordinating Body-Hand Priors for Continuous Dexterous Humanoid Loco-Manipulation

Sikai Li, Shuning Li, Zhenyu Wei, Yunchao Yao, Chenran Li, 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	May 2026 – Aug. 2026
Research Scientist Intern	Mentor: Dr. Zhenjia Xu
University of North Carolina at Chapel Hill	Aug. 2025 – Present
Ph.D. Student	Advisor: Prof. Mingyu Ding
Shanghai Qi Zhi Institute · Tsinghua Embodied AI Lab	Feb. 2025 – Jul. 2025
Research Intern	Advisor: Prof. Huazhe Xu
National University of Singapore · LinS Lab	Jun. 2024 – Feb. 2025
Research Assistant	Advisor: Prof. Lin Shao
Shanghai Jiao Tong University · Machine Vision and Intelligence Group	Oct. 2022 – May 2024
Research Intern	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++, L ^A T _E X, Linux, Git, HTML, CSS
Real Robots	xArm6, UR5, Franka, LeapHand, Dex-3, Robotiq 2F-85