

Xunzhe Zhou

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Education

The University of Hong Kong, Hong Kong	2025.09 – now
• PhD, <i>Supervisors: Prof. Yanchao Yang and Prof. Yi Ma</i>	GPA 4.0/4.0
Fudan University, Shanghai, China	2020.09 – 2025.06
• B.S. in Computer Science and Technology	GPA 3.55/4.0
University of California, Berkeley, CA, USA	2023.08 – 2023.12
• Exchange student, Department of EECS	GPA 4.0/4.0

Publications

(* denotes equal contribution)

- **Xunzhe Zhou***, Y. Cai*, F. Wang*, R. Ju*, H. Ren, R. Liu, Y. Zhang, Q. Luo, F. Chen, P. Zhou, Y. Ma, Y. Yang, “The Imitator Game: Benchmarking Robot Imitative Ability Beyond Action Prediction”, *CoRL 2026*.
- X. Yang, S. Yang, C. Wang, J. Xue, C. Yu, **Xunzhe Zhou**, S. Zhou, M. Tang, T. Jin, L. Yang, X. Yue, Z. Zhao, “Progressive Vision-Language Model Training Paradigm to Address Spatio-Temporal Hallucinations in Embodied Multi-Image Reasoning”, in submission.
- F. Chen, Z. Xu, T. Chu, **Xunzhe Zhou**, L. Sun, Z. Wu, S. Gao, Z. Li, Y. Yang, Y. Ma, “Generative Simulation for Dexterous Hands”, in submission.
- Q. Luo, R. Liu, P. Zhou, **Xunzhe Zhou**, Y. Yang, “Geometric Entropy: When Trajectory Diversity Helps and Hurts in Imitation Learning”, *IROS 2026*.
- H. Ren, P. Zhou, **Xunzhe Zhou**, Y. Yang, “DeTaCH: Decoupling Tasks and Control via a Meta-Gradient Hypernetwork”, *RSS 2026*.
- P. Zhou, W. Yao, Q. Luo, **Xunzhe Zhou**, Y. Yang, “Hyper-GoalNet: Goal-Conditioned Manipulation Policy Learning with HyperNetworks”, *NeurIPS 2025*.
- J. Zhou, R. Wu, Y. Liu, Y. Hou, **Xunzhe Zhou**, C. Yu, L. Zhong, L. Shao, “Bi-Adapt: Few-shot Bimanual Adaptation for Novel Categories of 3D Objects via Semantic Correspondence”, *ICRA 2026 Best paper award finalist on robot manipulation and locomotion*.
- J. Chen*, C. Yu*, **Xunzhe Zhou***, T. Xu, Y. Mu, M. Hu, W. Shao, Y. Wang, G. Li, L. Shao, “EMOS: Embodiment-aware Heterogeneous Multi-robot Operating System with LLM Agents”, *ICLR 2025*.
- Q. He, J. Zeng, W. Huang, L. Chen, J. Xiao, Q. He, **Xunzhe Zhou**, J. Liang, Y. Xiao, “Can Large Language Models Understand Real-World Complex Instructions?”, *AAAI 2024*.
- H. Sun*, **Xunzhe Zhou***, R. Cao*, J. Hou, C. Guan, and S. Leng, “Reservoir Computing as Digital Twins for Controlling Nonlinear Dynamical Systems”, *Nonlinear Dynamics*.

Research Experience

Shanghai AI Laboratory, Shanghai	Shanghai, China
<i>Advisor: Prof. Biqing Qi and Yan Ding</i>	2024.12 – 2025.03
• Scaling Laws in UMI data for skill-level robot manipulation generalization.	
School of Computing, National University of Singapore	Singapore, Singapore
<i>Advisor: Prof. Lin Shao</i>	2024.05 – 2024.12
• (EMOS) A heterogeneous multi-robot collaborating system with LLM agents in Habitat-lab.	
• (Bi-Adapt) Bi-manual adaptation for novel objects with affordance extracted from vision foundation models.	
Shanghai Key Laboratory of Data Science, Fudan University	Shanghai, China
<i>Advisor: Prof. Yanghua Xiao</i>	2023.06 – 2023.08
• (CELLO) Conducted a benchmark to evaluate LLMs’ capabilities of real-world complex instructions following.	
Institute of AI and Robotics, Fudan University	Shanghai, China
<i>Advisor: Prof. Siyang Leng</i>	2022.11 – 2023.05
• Echo State Network as digital twin to predict and control the behavior of nonlinear dynamical systems.	

Honor & Awards

- Reviewer: ICLR, CVPR, CoRL
- ICRA 2026 Best paper award finalist on robot manipulation and locomotion
- Winner of the Top Talent Award in Computer Science, Fudan University (“拔尖计划”)
- Second/Third prize of scholarship in Outstanding Students, Fudan University