

Yizhuo Wu

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Education

Peking University

June 2022 – Present

Bachelor of Science in Computer Science and Technology

- **GPA:** 3.84/4.00 | **Average Score:** 91/100 | **Ranking:** Top 5%
- **Courses:** Multimodal Learning, Reinforcement learning, Discrete Mathematics, Data Structures, Linear algebra, Artificial Intelligence

Research Interest

My research focuses on facilitating the development of generalizable, robust, and dexterous manipulation skills in complex real-world environments, using a combination of computer vision and reinforcement learning approaches.

Publications and Manuscripts

* indicates equal contribution

- **SimLauncher: Launching Sample-Efficient Real-world Robotic Reinforcement Learning via Simulation Pre-training** In the 2025 IEEE/RSJ International Conference on Intelligent Robots and Systems as **Oral Presentation (IROS 2025)**

Mingdong Wu*, Lehong Wu*, **Yizhuo Wu***, Weiyao Huang, Hongwei Fan, Zheyuan Hu, Haoran Geng, Jinzhou Li, Jiahe Ying, Long Yang, Yuanpei Chen, Hao Dong

Research and Projects

Berkeley Artificial Intelligence Research lab

Jul 2025 – Present

Advisor: Prof. Pieter Abbeel, Proj. Jitendra Malik

University of California,
Berkeley

Mentor: Haoran Geng

Launching Vision-based Reinforcement Learning for Bi-manual Dexterous Manipulation

- Exploring vision-based rl for bi-manual dexterous manipulation conditioned on forward dynamics and kinematics

PKU-Agibot Lab

Sep 2024 – Jun 2025

Advisor: Prof. Hao Dong

Peking University

Launching Sample-Efficient Robotic Reinforcement Learning via Simulation Pretraining

- Developed a real-to-sim-to-real pipeline for policy pretraining in digital twin simulation environments constructed from small amounts of real-world data

Predicting external contact with marker-based visual tactile sensor

- Explored extrinsic contact prediction leveraging FEM-based physics simulator

Honors and Awards

- Academic merit award, Peking University, May 2024
- Siyuan Scholarship, Peking University, May 2023
- merit student, Peking University, May 2023
- Outstanding Graduate Award of Beijing No.8 High School, Aug 2022

Skills

- Programming Languages: C++, Python, JavaScript
- Deep Learning Frameworks: PyTorch, JAX