

# YUANHANG ZHANG

🏠 [Homepage](#) ✉ [yuanhang0610@gmail.com](mailto:yuanhang0610@gmail.com) 🌐 [Github](#) 🎓 [Google Scholar](#) 📍 San Francisco, CA, USA

## EMPLOYMENT

Amazon, Frontier AI & Robotics (FAR)  
Applied Scientist

San Francisco, CA, USA  
Jun. 2026 - Present

## EDUCATION

Carnegie Mellon University  
M.S. in Robotic Systems and Development, GPA: 3.85/4.00

Pittsburgh, USA  
Sep. 2024 - May 2026

Shanghai Jiao Tong University  
B.Eng. in Automation, GPA: 3.78/4.3

Shanghai, China  
Sep. 2019 - Jun. 2023

## RESEARCH INTERESTS

My research focuses on **scalable learning systems for robots to perceive, reason, and act reliably in the real world, specifically advancing robotic loco-manipulation with complex and dynamic physical interaction.**

## PUBLICATIONS

\* Equal contribution    † Equal advising

- [1] [Under Review 2026] **Yuanhang Zhang**, Younggyo Seo, Juyue Chen, Yifu Yuan, Koushil Sreenath, Pieter Abbeel<sup>†</sup>, Carmelo Sferrazza<sup>†</sup>, Karen Liu<sup>†</sup>, Rocky Duan<sup>†</sup>, and Guanya Shi<sup>†</sup>. “RPL: Learning Robust Humanoid Perceptive Locomotion on Challenging Terrains”.
- [2] [RSS 2026] Wu Zhen<sup>\*</sup>, Xiaoyu Huang<sup>\*</sup>, Lujie Yang<sup>\*</sup>, **Yuanhang Zhang**, Koushil Sreenath, Xi Chen, Pieter Abbeel<sup>†</sup>, Rocky Duan<sup>†</sup>, Angjoo Kanazawa<sup>†</sup>, Carmelo Sferrazza<sup>†</sup>, Guanya Shi<sup>†</sup>, and Karen Liu<sup>†</sup>. “Perceptive Humanoid Parkour: Chaining Dynamic Human Skills via Motion Matching”.
- [3] [L4DC 2026 (Oral)] **Yuanhang Zhang**, Yifu Yuan, Prajwal Gurunath, Tairan He, Shayegan Omidshafiei, Ali-akbar Agha-mohammadi, Marcell Vazquez-Chanlatte, Liam Pedersen, and Guanya Shi. “FALCON: Learning Force-Adaptive Humanoid Loco-Manipulation”.
- [4] [RSS 2025] Tairan He<sup>\*</sup>, Jiawei Gao<sup>\*</sup>, Wenli Xiao<sup>\*</sup>, **Yuanhang Zhang**<sup>\*</sup>, Zi Wang, Jiashun Wang, Zhengyi Luo, Guanqi He, Nikhil Sobanbab, Chaoyi Pan, et al. “ASAP: Aligning Simulation and Real-World Physics for Learning Agile Humanoid Whole-Body Skills”.
- [5] [ICRA 2025, Outstanding Paper Nomination @ CoRL LFDm 2025] **Yuanhang Zhang**, Tianhai Liang, Zhenyang Chen, Yanjie Ze, and Huazhe Xu. “Catch It! Learning to Catch in Flight with Mobile Dexterous Hands”.
- [6] [RSS 2025] Guanqi He<sup>\*</sup>, Xiaofeng Guo<sup>\*</sup>, Luyi Tang, **Yuanhang Zhang**, Mohammadreza Mousaei, Jiahe Xu, Junyi Geng, Sebastian Scherer, and Guanya Shi. “Flying Hand: End-Effector-Centric Framework for Versatile Aerial Manipulation Teleoperation and Policy Learning”.
- [7] [CoRL 2025] Yitang Li, **Yuanhang Zhang**, Wenli Xiao, Chaoyi Pan, Haoyang Weng, Guanqi He, Tairan He, and Guanya Shi. “Hold My Beer: Learning Gentle Humanoid Locomotion and End-Effector Stabilization Control”.

- [8] [SoCS 2024] Yuanhang Zhang, Xuemian Wu, Hesheng Wang, and Zhongqiang Ren. “Multi-Agent Combinatorial Path Finding with Heterogeneous Task Duration”.
- [9] [ICRA 2026] Yufeng Tian, Shuiqi Cheng, Tianming Wei, Tianxing Zhou, Yuanhang Zhang, Zixian Liu, Zhecheng Yuan, and Huazhe Xu. “ViTaS: Visual Tactile Soft Fusion Contrastive Learning for Reinforcement Learning”.

## RESEARCH EXPERIENCE

- Amazon, Frontier AI & Robotics (FAR)** San Francisco, CA, USA  
 Applied Scientist Intern May 2025 – Mar. 2026
- Advisors: [Prof. Pieter Abbeel](#) and [Dr. Rocky Duan](#)
  - Topic: perceptive and adaptive humanoid loco-manipulation
- Carnegie Mellon University** Pittsburgh, USA  
 Research Assistant Oct. 2024 – Present
- Advisor: [Prof. Guanya Shi](#)
  - Topic: adaptive humanoid whole-body control, aerial manipulation
- Tsinghua University, IIIS** Beijing, China  
 Full-Time Research Assistant Jan. 2024 – Jul. 2024
- Advisor: [Prof. Huazhe Xu](#)
  - Topic: agile and dynamic mobile manipulation with dexterity
- Shanghai Jiao Tong University** Shanghai, China  
 Research Intern Jul. 2023 – Dec. 2023
- Advisor: [Prof. Zhongqiang Ren](#)
  - Topic: multi-agent combinatorial path finding

## HONORS & AWARDS

- Outstanding Graduate (< 3%), *Shanghai Jiao Tong University* ..... 2023
- Merit Student (< 3%), *Shanghai Jiao Tong University* ..... 2022

## COMPETITIONS

- International VEX Robotics Competition** Shanghai, China  
 Programming Team Leader @ SJTU VEX Robotics Club [[Website](#)] / [[2021 Season Reveal](#)] 2020–2022
- 2021 National VEX Robotics Competition: Tournament Champions & Skills Champion (**World Record**).
  - 2021 VEX Robotics Competition Asian Open: Tournament Champions VEXU; Excellence Award.
  - 2021 VEX Robotics Competition China Final: Tournament Champions VEXU; Excellence Award.
- National University IOT Design Competition** Shanghai, China  
 ‘HarClass’: A Cloud-Based Distributed System for Smart Classrooms [[Video \(Chinese\)](#)] 2022
- National First Prize & Harmony Innovation Award (**TOP 1%**)

## SKILLS

**Programming:** Python, C/C++, MATLAB, JAVA, LaTeX

**Frameworks & Tools:** Pytorch, Warp, ROS/ROS2, IsaacGym, IsaacSim/IsaacLab, Mujoco, Gazebo

**DevOps:** AWS, Docker, SkyPilot, Conda, Jenkins, Weights & Biases

**Languages:** Chinese (Native), English (TOFEL 107)

## SERVICE

- Reviewer, *CoRL*, *ICRA*, *IROS* ..... 2025 - Present