Yiyang Shao

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EDUCATION

University of Science and Technology of China — Hefei, China
B.S. in Modern Mechanics. — Sep 2021–June 2025
University of California, Berkeley — Berkeley, CA, USA
Ph.D. in Mechanical Engineering. — Aug 2025–Present

RESEARCH INTERESTS

My research interest lies in **Robotics**, **Reinforcement Learning (RL)** and **Generative Models**, bridging high-level intelligence with low-level controller in physical world.

EXPERIENCES

UC Berkeley, Hybrid Robotics Group — Aug 2024-Present
- Robot learning research advised by Prof. Koushil Sreenath.
- Research focus: humanoid whole-body control using RL and model predictive control; generative model.

USTC, Robomaster team — 2022-2025
- Synthesized EKF-based state estimation, LQR and RL control for wheeled-bipedal robot.
- Deployed full-stack navigation featuring LiDAR-SLAM and MPC for real-time trajectory optimization.

PUBLICATION

- **LangWBC: Language-directed Humanoid Whole-Body Control via End-to-end Learning**
Yiyang Shao, Xiaoyu Huang, Bike Zhang, Qiayuan Liao, Yuman Gao, Yufeng Chi, Zhongyu Li, Sophia Shao, Koushil Sreenath
Robotics: Science and Systems (RSS), 2025 [Project] [Paper]

AWARDS

Runner-up, RoboMaster 2025 University Championship (Grand Finals) — Aug 2025
Champion, RoboMaster 2025 University League (Shandong Regional) — May 2025
Grand Prize of Zhou Peiyuan Mechanics Competition at Provincial Level (Top 2%) — Jun 2023
JAC NIO Scholarship — Oct 2022

SKILLS

Expertise	Deep Reinforcement Learning, Generative Model, Optimal Control, SLAM, Motion Planning
Programming	Python, C++/C, PyTorch, Matlab, Mathematica
Tool	ROS/ROS2, IsaacLab, Linux, Git, Docker