

Huayi Wang

✉ why618188@sjtu.edu.cn | 🏠 why618188.github.io | 📧 why618188 | 🎓 Huayi Wang

Education

Shanghai Jiao Tong University

B.ENG. IN ARTIFICIAL INTELLIGENCE

• GPA: 3.95/4.3; Rank: 19/99

Shanghai, China

Aug. 2022 - Present

Research Interests

My current research is centered on **Robot Learning and Control**, with a specific focus on Humanoid Locomotion and Whole-Body Control. I am dedicated to developing effective robot learning-based training methods that prioritize agility, robustness, and safety.

Research Experience

Shanghai Jiao Tong University

RESEARCH ASSISTANT AT **APEX LAB**, ADVISED BY **PROF. WEINAN ZHANG**

• Research Topics: Reinforcement Learning, LLM Agent.

Shanghai, China

Dec.2023 - Jul.2024

Shanghai Artificial Intelligence Laboratory

INTERN AT **OPENROBOT LAB**, ADVISED BY **DR. JIANGMIAO PANG** AND **DR. JINGBO WANG**

• Research Topics: Robot Learning, Humanoid Locomotion Control, Reinforcement Learning.

Shanghai, China

Aug.2024 - Present

Publications

CONFERENCE PROCEEDINGS

[C2] BeamDojo: Learning Agile Humanoid Locomotion on Sparse Footholds.

Huayi Wang, ZiRui Wang, Junli Ren, Qingwei Ben, Tao Huang, Weinan Zhang, Jiangmiao Pang.

Robotics: Science and Systems (RSS), 2025. (Oral Presentation) [Paper] [Website]

[C1] Learning Humanoid Standing-up Control across Diverse Postures.

Tao Huang, Junli Ren, **Huayi Wang**, ZiRui Wang, Qingwei Ben, Muning Wen, Xiao Chen, Jianan Li, Jiangmiao Pang.

Robotics: Science and Systems (RSS), 2025. (Outstanding Systems Paper Award Finalist - Top 4) [Paper] [Website]

PREPRINTS

[P2] VB-Com: Learning Vision-Blind Composite Humanoid Locomotion Against Deficient Perception.

Junli Ren, Tao Huang, **Huayi Wang**, ZiRui Wang, Qingwei Ben, Jiangmiao Pang, Ping Luo.

Under Review, 2025. [Paper] [Website]

[P1] P3: A Policy-Driven, Pace-Adaptive, and Diversity-Promoted Framework for data pruning in LLM Training.

Yingxuan Yang, **Huayi Wang**, Muning Wen, Xiaoyun Mo, Qiuying Peng, Jun Wang, Weinan Zhang.

Under Review, 2024. [Paper]

Honors & Awards

SenseTime Scholarship 30 undergraduate AI researchers nationwide [Link]

2025

Guozhi honor class Top 20% of AI honor class, held by Xiaou Tang. [Link]

2024

SJTU undergraduate C-level scholarship

2023

Outstanding members of the Communist Youth League

2022

Skills

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

Frameworks PyTorch, NumPy, Git, Anaconda, ROS, OpenCV, Linux

Languages Mandarin (Native), English