Huayi Wang

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Education

Shanghai Jiao Tong University *Shanghai, China*
B.Eng. in Artificial Intelligence *Aug. 2022 - Present*
- *GPA: 3.95/4.3 ; Rank: 19/99*

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. Additionally, I am also interested in Reinforcement Learning.

Research Experience

Shanghai Jiao Tong University *Shanghai, China*
Research Assitant at APEX Lab, Advised by Prof. Weinan Zhang *Dec.2023 - Present*
- *Research Topics*: Reinforcement Learning, LLM Agent.

Shanghai Artificial Intelligence Laboratory *Shanghai, China*
Intern at OpenRobot Lab, Advised by Jiangmiao Pang *Aug.2024 - Present*
- *Research Topics*: Robot Learning, Humanoid Locomotion Control, Reinforcement Learning.

Publications

Preprints

[P3] BeamDojo: Learning Agile Humanoid Locomotion on Sparse Footholds.
Huayi Wang, ZiRui Wang, Junli Ren, Qingwei Ben, Tao Huang, Weinan Zhang, Jiangmiao Pang.
Under Review, 2025. [Paper] [Website]

[P2] 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.
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]

Upcoming Publications

[U1] 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.

Honors & Awards

Outstanding members of the Communist Youth League *2022*
SJTU undergraduate C-level scholarship *2023*
Guozhi honor class *Top 20% of AI honor class, held by Xiaoou Tang.* [Link] *2024*

Skills

Programming Python, C/C++, LaTeX, JAVA, MATLAB
Frameworks PyTorch, NumPy, Git, Anaconda, ROS, OpenCV, Linux
Languages Mandarin (Native), English