

Huayi Wang

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Education

Shanghai Jiao Tong University

B.ENG. IN ARTIFICIAL INTELLIGENCE

• CGPA: 90.7/100

Shanghai, China

Aug. 2022 - Present

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 INTERN ROBOTICS, ADVISED BY DR. JIANGMIAO PANG AND DR. JINGBO WANG

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

Shanghai, China

Aug.2024 - Mar.2026

Publications

(*Equal Contribution, †Corresponding Author)

CONFERENCE PROCEEDINGS

[C5] Towards Adaptable Humanoid Control via Adaptive Motion Tracking

Tao Huang, **Huayi Wang**, Junli Ren, Kangning Yin, Zirui Wang, Xiao Chen, Feiyu Jia, Wentao Zhang, Junfeng Long, Jingbo Wang†, Jiangmiao Pang†

International Conference on Robotics and Automation (ICRA), 2026 [Paper] [Website] [Code]

[C4] 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†

International Conference on Robotics and Automation (ICRA), 2026 [Paper] [Website]

[C3] 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]

[C2] 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] [Code]

[C1] Diversity-Aware Self-Paced Data Selection for LLM Fine-Tuning

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

European Conference on Artificial Intelligence (ECAI), 2025 [Paper]

PREPRINTS

[P3] Learning Agile and Robust Omnidirectional Aerial Motion on Overactuated Tilttable-Quadrotors

Wentao Zhang, Zhaoqi Ma, Jinjie Li, **Huayi Wang**, Haokun Liu, Junichiro Sugihara, Chen Chen, Yicheng Chen, Moju Zhao

Under Review, 2026 [Paper] [Website][Code]

[P2] PhysHSI: Towards a Real-World Generalizable and Natural Humanoid-Scene Interaction System

Huayi Wang*, Wentao Zhang*, Runyi Yu*, Tao Huang, Junli Ren, Feiyu Jia, Zirui Wang, Xiaojie Niu, Xiao Chen, Jiahe Chen,

Qifeng Chen†, Jingbo Wang†, Jiangmiao Pang†

Under Review, 2025 [Paper] [Website][Code]

[P1] Humanoid Goalkeeper: Learning from Position Conditioned Task-Motion Constraints

Junli Ren*, Junfeng Long*, Tao Huang, **Huayi Wang**, Zirui Wang, Feiyu Jia, Wentao Zhang, Jingbo Wang†, Ping Luo†,

Jiangmiao Pang†

Under Review, 2025 [Paper] [Website] [Code]

Honors & Awards

- RSS Best Systems Paper Award Finalist** *Top 4 of accepted papers.* [\[Link\]](#) 2025
- SenseTime Scholarship** *30 undergraduate AI researchers nationwide.* [\[Link\]](#) 2025
- Guozhi honor class** *Top 20% of AI honor class, held by Prof. Xiaoou Tang.* [\[Link\]](#) 2024