Yen-Jen Wang

Email	wangyenjen@berkeley.edu
Homepage	https://yenjen.me
Google Scholar	scholar.google.com/citations?user=_U-HwfkAAAAJ
GitHub	github.com/wangyenjen

Current Positions

Oct 2025 – Present	**Amazon FAR (Frontier AI & Robotics)** Member of Technical Staff, Intern
Aug 2024 – Present	**University of California, Berkeley** Ph.D. Student, Berkeley AI Research (BAIR)

Education

Aug 2024 – Present	**University of California, Berkeley** Ph.D. in Computer Science Advisors: Prof. Pieter Abbeel and Prof. Shankar Sastry
Aug 2021 – Jun 2024	**Tsinghua University** M.S. in Computer Science, Institute for Interdisciplinary Information Sciences (IIIS) Advisor: Prof. Jianyu Chen
Sep 2017 – Jan 2021	**National Taiwan University** B.S. in Computer Science and Information Engineering

Past Experience

Dec 2023 – Jul 2024	**Robot Era**, Founding Roboticist Led the humanoid algorithm team and built the learning stack from the ground up; later contributed to the company's video world model and dexterous hand
Dec 2023 – Jul 2024	**Shanghai Qi Zhi Institute**, Research Intern Advisor: Prof. Jianyu Chen
Summer 2021	**Google LLC**, Software Engineering Intern Android Core Networking team
Summer 2019	**Pony.ai**, Software Engineering Intern Planning and Control team

Honors and Awards

2024 **Best Paper Award Finalist** at Robotics: Science and Systems (RSS)
For *Advancing Humanoid Locomotion: Mastering Challenging Terrains with Denoising World Model Learning*

2024 **Outstanding Graduate of IIIS**, Tsinghua University
Top master's student in the institute

2019 **5th Place and Silver Medal**, ACM-ICPC World Finals
Best team from mainland China, Hong Kong, Macao, and Taiwan in 2019

2017 **Gold Medal**, ACM-ICPC Asia Regional Contest

2017 **Silver Medal**, International Olympiad in Informatics (IOI)
Representing Taiwan

Publications

(∗ indicates equal contribution; † indicates equal advising; own name underlined.)

Pre-prints

2026 P.1 Yen-Jen Wang*, Jiaman Li*,‡, Sirui Chen§, Takara E. Truong§, Pei Xu§, Pieter Abbeel†, Rocky Duan†, Koushil Sreenath†, Angjoo Kanazawa†, Carmelo Sferrazza†, Guanya Shi†, C. Karen Liu†. **VLK: Learning Humanoid Loco-Manipulation from Synthetic Interactions in Reconstructed Scenes.**
Tech Report, June 2026
(∗ co-first authors; ‡ project lead; § equal contribution as co-second author; † Amazon FAR team co-lead)

2025 P.2 Haozhi Qi*, Yen-Jen Wang*, Toru Lin, Brent Yi, Yi Ma, Koushil Sreenath†, Jitendra Malik†. **Coordinated Humanoid Manipulation with Choice Policies.**
Tech Report, December 2025

P.3 Yan Gu*, Guanya Shi*, Fan Shi*, I-Chia Chang, Yen-Jen Wang, Qilong Cheng, Zachary Olkin, Ivan Lopez-Sanchez, Yunchu Feng, Jian Zhang, Aaron D. Ames, Hao Su†, Koushil Sreenath†. **Evolution of Humanoid Locomotion Control.**
Survey, December 2025

Peer-reviewed Publications

2026 P.4 Elvis Hsieh*, Wen-Han Hsieh*, Yen-Jen Wang*, Toru Lin, Jitendra Malik, Koushil Sreenath†, Haozhi Qi†. **Learning Dexterous Manipulation Skills from Imperfect Simulations.**
International Conference on Robotics and Automation (ICRA), 2026

P.5 Yuanchen Ju*, Yongyuan Liang*, Yen-Jen Wang*, Nandiraju Gireesh, Yuanliang Ju, Seungjae Lee, Qiao Gu, Elvis Hsieh, Furong Huang†, Koushil Sreenath†. **MomaGraph: State-Aware Unified Scene Graphs with Vision-Language Model for Embodied Task Planning.**
International Conference on Learning Representations (ICLR), 2026
(Oral, top 1% acceptance)

2025 P.6 Yucheng Hu*, Yanjiang Guo*, Pengchao Wang, Xiaoyu Chen, Yen-Jen Wang, Jianke Zhang, Koushil Sreenath†, Chaochao Lu†, Jianyu Chen†. **Video Prediction Policy: A Generalist Robot Policy with Predictive Visual Representations.**
International Conference on Machine Learning (ICML), 2025
(Spotlight)

P.7 Zixuan Chen*, Xialin He*, Yen-Jen Wang*, Qiayuan Liao, Yanjie Ze, Zhongyu Li, S. Shankar Sastry, Jiajun Wu, Koushil Sreenath, Saurabh Gupta, Xue Bin Peng. **Learning Smooth Humanoid Locomotion through Lipschitz-Constrained Policies.**
International Conference on Intelligent Robots and Systems (IROS), 2025

P.8 Yanjiang Guo*, Jianke Zhang*, Xiaoyu Chen*, Xiang Ji, Yen-Jen Wang, Yucheng Hu, Jianyu Chen†. **Improving Vision-Language-Action Model with Online Reinforcement Learning.**
International Conference on Robotics and Automation (ICRA), 2025

P.9 Haoran Geng*, Feishi Wang*, Songlin Wei*, Yuyang Li*, Bangjun Wang*, Boshi An*, Charlie Tianyue Cheng*, Haozhe Lou, Peihao Li, Yen-Jen Wang, Yutong Liang, Dylan Goetting, Chaoyi Xu, Haozhe Chen, Yuxi Qian, Yiran Geng, Jiageng Mao, Weikang Wan, Mingtong Zhang, Jiangran Lyu, Siheng Zhao, Jiazhao Zhang, Jialiang Zhang, Chengyang Zhao, Haoran Lu, Yufei Ding, Ran Gong, Yuran Wang, Yuxuan Kuang, Ruihai Wu, Baoxiong Jia, Carlo Sferrazza, Hao Dong, Siyuan Huang, Yue Wang, Jitendra Malik, Pieter Abbeel. **RoboVerse: Towards a Unified Platform, Dataset and Benchmark for Scalable and Generalizable Robot Learning.**
Robotics: Science and Systems (RSS), 2025

P.10 Tong Zhang*, Boyuan Zheng*, Ruiqian Nai, Yingdong Hu, Yen-Jen Wang, Geng Chen, Fanqi Lin, Jiongye Li, Chuye Hong, Koushil Sreenath, Yang Gao. **HuB: Learning Extreme Humanoid Balance.**
Conference on Robot Learning (CoRL), 2025

2024 P.11 Xinyang Gu*, Yen-Jen Wang*, Xiang Zhu*, Chengming Shi*, Yanjiang Guo, Yichen Liu, Jianyu Chen†. **Advancing Humanoid Locomotion: Mastering Challenging Terrains with Denoising World Model Learning.**
Robotics: Science and Systems (RSS), 2024
(Best Paper Award Finalist)

P.12 Yen-Jen Wang, Bike Zhang, Jianyu Chen, Koushil Sreenath. **Prompt a Robot to Walk with Large Language Models.**
IEEE Conference on Decision and Control (CDC), 2024

P.13 Yanjiang Guo*, Yen-Jen Wang*, Lihan Zha*, Jianyu Chen†. **DoReMi: Grounding Language Model by Detecting and Recovering from Plan-Execution Misalignment.**
International Conference on Intelligent Robots and Systems (IROS), 2024

P.14 Jianke Zhang*, Yanjiang Guo*, Xiaoyu Chen, Yen-Jen Wang, Yucheng Hu, Chengming Shi, Jianyu Chen†. **HiRT: Enhancing Robotic Control with Hierarchical Robot Transformers.**
Conference on Robot Learning (CoRL), 2024

P.15 Yanjiang Guo*, Yucheng Hu*, Jianke Zhang, Yen-Jen Wang, Xiaoyu Chen, Chaochao Lu†, Jianyu Chen†. **Prediction with Action: Visual Policy Learning via Joint Denoising Process.**
Advances in Neural Information Processing Systems (NeurIPS), 2024

P.16 Xinyang Gu*, Yen-Jen Wang*, Jianyu Chen. **Humanoid-Gym: Reinforcement Learning for Humanoid Robot with Zero-Shot Sim2Real Transfer.**
ICRA Workshop on Agile Robotics, 2024

2023 P.17 Yanjiang Guo*, Zheyuan Jiang*, Yen-Jen Wang, Jingyue Gao, Jianyu Chen. **Decentralized Motor Skill Learning for Complex Robotic Systems.**
IEEE Robotics and Automation Letters (RA-L), 2023

Open-Source Software

Humanoid-Gym	Reinforcement learning framework for humanoid robots with zero-shot sim-to-real transfer, based on P.11 and P.16 github.com/roboterax/humanoid-gym

Professional Service

Committee Service	Committee Member, Tsinghua CS Graduate Admissions Exam, 2024
	Committee Member, Asia-Pacific Informatics Olympiad (APIO), 2023
Reviewer	Conference on Robot Learning (CoRL), 2025, 2026
	IEEE International Conference on Robotics and Automation (ICRA), 2024, 2026
	IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2026
	Robotics: Science and Systems (RSS), 2026
	IEEE Transactions on Robotics (T-RO), 2026
	IEEE Robotics and Automation Letters (RA-L), 2025, 2026
Problem Setting	Chief Problem Setter, ACM-ICPC Xuzhou Regional Contest, 2019
	Chief Problem Setter, ACM-ICPC Nanjing Regional Contest, 2018
	Assistant Judge, ICPC Asia Taipei-Hsinchu Regional Contest, 2019

Teaching

Spring 2023	Teaching Assistant, *Advanced Topics for Robotics* (Prof. Jianyu Chen) Tsinghua University
2019 – 2020	Coach, ACM-ICPC Team (with Prof. Pu-Jen Cheng and Prof. Chiou-Shann Fuh) National Taiwan University
2018 – 2019	Teaching Assistant, Taiwan Olympiad in Informatics Training high-school students representing Taiwan at IOI
Spring 2018	Teaching Assistant, *Data Structures and Algorithms* (Prof. Jyh-Shing Roger Jang) National Taiwan University