HAI ZHANG

EDUCATION

THE UNIVERSITY OF HONG KONG, HONGKONG, CHINA 2025.07 – 2029.06 (expected) *DOCTOR OF PHILOSOPHY*, EMBODIED ARTIFICIAL INTELLIGENCE

TONGJI UNIVERSITY, SHANGHAI, CHINA

2022.09 - 2025.03

ACADEMIC MASTER, COMPUTER SCIENCE AND TECHNOLOGY

TONGJI UNIVERSITY, SHANGHAI, CHINA

2018.09 - 2022.06

BACHELOR, COMPUTER SCIENCE AND TECHNOLOGY with GPA of 4.76/5.0, general ranking of 8/155, top 5.16%

i AWARDS

NeurIPS 2025 Top Reviewer Award	2025.10
SHANGHAI Excellent Graduate Award	2025.04
• Graduate National Scholarship (top 0.2%)	2024.12
• Tongji University Distinguished Student Honor (top 5%)	2024.12
Outstanding Undergraduate Thesis	2022.06
• Outstanding Undergraduate Student Scholarship for three consecutive years	2018.09 - 2021.08

■ SELECTED PAPERS

- Scrutinize What We Ignore: Reining In Task Representation Shift In Context-Based Offline Meta Reinforcement Learning. Zhang. H, Zheng. B, Ji. T, Liu. J, Guo. A, Zhao. J, Li. L. In International Conference on Learning Representations (ICLR) 2025
- How to Fine-tune the Model: Unified Model Shift and Model Bias Policy Optimization. Zhang. H, Yu. H, Zhao. J, Zhang. D, Huang. C, Zhou. H, Zhang. X, Ye. C. In Advances in Neural Information Processing Systems (NeurIPS) 2023
- Towards an Information Theoretic Framework of Context-Based Offline Meta-Reinforcement Learning. Li. L* (supervisor), Zhang. H*, Zhang. X, Zhu. S, Yu. Y, Zhao. J, and Heng. P. In Advances in Neural Information Processing Systems (NeurIPS) 2024 Spotlight(top 2%)
- Safe Reinforcement Learning with Dead-Ends Avoidance and Recovery. Zhang. X, Zhang. H, Zhou. H, Huang. C, Zhang. D, Ye. C, Zhao. J. In IEEE Robotics and Automation Letters (RA-L) 2023 (Oral in International Conference on Robotics and Automation (ICRA) 2024)
- Focus On What Matters: Separated Models For Visual-Based RL Generalization. Zhang. D, Lv. B, Zhang. H, Yang. F, Zhou. H, Huang. C, Yu. H, Ye. C, Zhao. J, Jiang. C. In Advances in Neural Information Processing Systems (NeurIPS) 2024
- KineDex: Learning Tactile-Informed Visuomotor Policies via Kinesthetic Teaching for Dexterous Manipulation. Zhang. D, Yuan. C, Wen. C, Zhang. H, Zhao. J, Gao. Y. In Conference on Robot Learning (CoRL) 2025 Spotlight
- CERTAIN: Context Uncertainty-aware One-Shot Adaptation for Context-based Offline Meta Reinforcement Learning Zhou. H, Yang. R, Zhu. Y, Zhao. H, Zhang. H, Zhang. D, Zhao. J, Ye. C, Jiang. C. In International Conference on Machine Learning (ICML) 2025

RESEARCH EXPERIENCE

^{*} means co-first author

• Explore the generalization ability towards robotic manipulation via VLA architecture.

ZHEJIANG LAB HANGZHOU, ZHEJIANG, CHINA

2023.07 - 2024.05

RESEARCH INTERN supervised by Prof. Lanqing Li & Prof. Pheng-Ann Heng

• Explore generalization ability towards offline meta-reinforcement learning with model-based techniques.

C PROJECTS

OpenVLA-PLUS.

2024.06 - up to now

- Role: Substitute the backbone of OpenVLA from Llama2 7B to a small model with only 0.2B parameters to
 achieve computational and communication reduction. (FSDP → torch.compile + accelerate + deepspeed)
- Performance improvement on LIBERO-Long benchmark is 53.7% -> 75.6% with only 1.5 hours training on 8 × A800 GPUs.

Distributed Complete Vehicle Cloudization

2022.05 - 2023.01

- Invention Patent (Patent Number: 202310899331.2)
- National Key R&D Program
- Role: Use the distributed framework to achieve cloud-based transmission of vehicle information.

NIO, SHANGHAI, CHINA

2021.10 - 2022.03

- Intern for Backend Development Engineer
- Role: Use MongoDB and Redis database, Kafka consumer group to solve distributed events.

Unknown Environment Exploration and Application Device Based on Deep Reinforcement Learning 2020.05 – 2021.03

- Innovation and Entrepreneurship Program for SHANGHAI University Students.
- Role: Use representation learning combined with RL to achieve end-to-end vehicle driving on CARLA.

£ COMPETITIONS

RLChina Intelligent Agent Challenge Nonin Spring Season Curling Challenge

- Second Place in finals, Sixth Place in total scores
- Role: Optimize PPO and rule-based agent to complete curling strikes in a POMDP environment

WAIC: Meta-verse Lights Up Autonomous Driving, AI Simulation Driving Competition

- Second Place (Unique), won 40 thousand RMB
- Role: Process the perceptual information and Design the code of the decision state machine

Intel Cup National College Students Embedded System Invitational Competition

- National Second Prize
- Role: Design the overall architecture and complete the full-view image stitching

₽ Professional Service

- Reviewer: Annual AAAI Conference on Artificial Intelligence (AAAI) 2026
- Reviewer: International Conference on Learning Representations (ICLR) 2025, 2026
- Reviewer: Advances in Neural Information Processing Systems (NeurIPS) 2025