HAI ZHANG

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 · • https://github.com/betray12138
 · in Hai's LinkedIn

EDUCATION

TONGII	IINIV	ERSITY	SHANGHAI.	CHINA
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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

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
- 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

QIZHI INSTITUTE SHANGHAI, CHINA

2024.06 - up to now

RESEARCH INTERN supervised by Prof. Yang Gao

Explore the generalization ability towards robotic manipulation via VLA architecture.

ZHEJIANG LAB HANGZHOU, ZHEJIANG, CHINA

2023.07 - 2024.05

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

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

^{*} means co-first author

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 (Submitted, 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: Advances in Neural Information Processing Systems (NeurIPS) 2025
- Reviewer: International Conference on Learning Representations (ICLR) 2025