

HAI ZHANG

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🎓 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%

🏆 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

For a full list of my publications, please refer to Hai's Google Scholar profile.

* means co-first author

- **Sparse Video Generation Propels Real-World Beyond-the-View Vision-Language Navigation.** Zhang. H*, Liang. S*, Chen. L., Li. Y., Xu. Y., Zhong. Y., Zhang. F., Li. H. *Under Review*
- **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%)*
- **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*

👤 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. Lanqing Li & Prof. Pheng-Ann Heng

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

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: Reinforcement Learning Conference (RLC) 2026
- Reviewer: IEEE Robotics and Automation Letters (RA-L) 2026
- Reviewer: Robotics, Science and Systems (RSS) 2026
- 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