HAO LI

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EDUCATION

Ph.D. student at University of Science and Technology of China (USTC) 2024.06 - 2027.06 (expected)
Major in Control Science and Engineering.
Co-supervised by Prof. Feng Zhao, and Prof. Dahua Lin.

Master student at University of Science and Technology of China (USTC) 2022.09 - 2024.06
Major in Information and Communication Engineering, supervised by Prof. Yongdong Zhang.

Bachelor student at Huazhong University of Science and Technology (HUST) 2018.09 - 2022.06
Major in Information and Communication Engineering, Advanced Class (GPA: 3.87/4.0)
Elite Program: Qiming College, Outstanding Undergraduate in Terms of Academic Performance (Top 1%).

RESEARCH INTEREST

Robotics, particularly VLA models; world model; image generation/editing.

SELECTED PUBLICATIONS

1. RoboInter: A Holistic Intermediate Representation Suite Towards Robotic Manipulation.
Hao Li*, Ziqin Wang*, Zi-han Ding, Shuai Yang, Yilun Chen, Yang Tian, Xiaolin Hu, Tai Wang, Dahua Lin, Feng Zhao, Si Liu, Jiangmiao Pang. **ICLR 2026**
***Summary**: Introduces a unified data-benchmark-model suite of per-frame intermediate representations, enabling data-driven exploration of plan-then-execute VLAs and unlocking broad applications of intermediate supervision.*

2. CronusVLA: Towards Efficient and Robust Manipulation via Multi-Frame Vision-Language-Action Modeling.
Hao Li*, Shuai Yang*, Yilun Chen, Xinyi Chen, Xiaoda Yang, Yang Tian, Hanqing Wang, Tai Wang, Dahua Lin, Feng Zhao, Jiangmiao Pang. **AAAI 2026 Oral (Top 3.5%)**
***Summary**: Introduces memory-enhanced multi-frame modeling for VLA, enabling robots to effectively leverage feature-level history and achieve robust manipulation under visual disturbances, provides a quantitative benchmark.*

3. InstructVLA: Vision-Language-Action Instruction Tuning from Understanding to Manipulation.
Shuai Yang*, **Hao Li***, Bing Wang, Yilun Chen, Yang Tian, Tai Wang, Hanqing Wang, Feng Zhao, Yiyi Liao, Jiangmiao Pang. **ICLR 2026**
***Summary**: Develops an end-to-end VLA model that unifies vision-language reasoning with precise action generation via MoE and instruction tuning, paving the way for more generalized and broad real-world applications.*

4. InternVLA-M1: A Spatially Grounded Foundation Framework for Generalist Robot Policy.
Team of InternVLA-M1. **Technical Report 2025**

5. Robo3R: Enhancing Robotic Manipulation with Accurate Feed-Forward 3D Reconstruction
Sizhe Yang, Linning Xu, **Hao Li**, Juncheng Mu, Jia Zeng, Dahua Lin, Jiangmiao Pang. **Preprint 2026**

6. Gradual Residuals Alignment: A Dual-Stream Framework for GAN Inversion and Image Attribute Editing.
Hao Li, Mengqi Huang, Lei Zhang, Bo Hu, Yu Liu, Zhengdong Mao. ***AAAI 2024***

7. RoboGround: Robotic Manipulation with Grounded Vision-Language Priors.
Haifeng Huang, Xinyi Chen, Yilun Chen, **Hao Li**, Xiaoshen Han, Zehan Wang, Tai Wang, Jiangmiao Pang, Zhou Zhao. **CVPR 2025**

8. GenManip: LLM-driven Simulation for Generalizable Instruction-Following Manipulation.
Ning Gao, Yilun Chen, Shuai Yang, Xinyi Chen, Yang Tian, **Hao Li**, Haifeng Huang, Hanqing Wang, Tai Wang, Jiangmiao Pang. **CVPR 2025**

9. ER-SAN: Enhanced-Adaptive Relation Self-Attention Network for Image Captioning.
Jingyu Li, Zhendong Mao, Shancheng Fang, **Hao Li**. **IJCAI 2022 Oral (Top 3.7%)**

SELECTED HONORS AND AWARDS

Second Place Award (2/62) of RoCo Challenge @ AAAI 2026: Robotic Collaborative Assembling for Human-Centered Manufacturing.

Second Prize (2/599, ¥200,000) of the 2nd International Algorithm Case Competition of Greater Bay Area, Track of Efficient and Controllable Text-to-Image Generation.

National Scholarship (Top 2%), USTC, 2024.

First Prize Scholarship, USTC, 2025, 2024, 2023, 2022.

Outstanding Graduate, HUST, 2022.

Outstanding Undergraduate in Terms of Academic Performance (Top 1%), HUST, 2020.

COMMUNITY SERVICE

Conference Reviewer: AAAI 2025–2026, CVPR 2024–2025, ICLR 2025, ICML 2025.

Workshop Co-organizer: IROS 2025 Workshop on Multimodal Robot Learning in Physical Worlds.

CONTACT

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