

MINGHAO GUO

Abu Dhabi, UAE

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EDUCATION

MBZUAI

M.Sc. Computer Vision | GPA: 3.73/4.0

Aug 2024 - May 2026 (Expected)

Zhejiang University

B.E. Ocean Technology | GPA: 3.89/4.0 (Rank 5%)

Sep 2020 - Jun 2024

The Chinese University of Hong Kong

Exchange

Sep 2022 - Dec 2022

PUBLICATION

Published / Accepted

A₀: An Affordance-Aware Hierarchical Model for General Robotic Manipulation. ICCV 2025.

Rongtao Xu*, Jian Zhang*, **Minghao Guo***, Youpeng Wen*, Haoting Yang, Min Lin, Jianzheng Huang, Zhe Li, Kaidong Zhang, Liqiong Wang, Yuxuan Kuang, Meng Cao, Feng Zheng & Xiaodan Liang.

Developed a hierarchical affordance-aware diffusion framework that learns object-centric spatial affordances and enables robust cross-platform manipulation, achieving superior performance on complex real-world robotic tasks. [pdf](#)

OpenRT: An Open-source Framework for Reasoning Over Tabular Data. ACL 2023.

Yilun Zhao*, Boyu Mi*, Zhenting Qi, Linyong Nan, **Minghao Guo**, Arman Cohan & Dragomir Radev.

Built OpenRT, the first open-source unified framework for reproducing and benchmarking table pre-training models, along with TaRAT, a collaborative annotation tool enabling creation and evaluation of table reasoning datasets. [pdf](#)

Under Review

GLaD: Geometric Latent Distillation for Vision-Language-Action Models. Submitted to TCSVT. *Under Review*.

Minghao Guo, Meng Cao, Jiachen Tao, Rongtao Xu, Yan Yan, Xiaodan Liang, Ivan Laptev & Xiaojun Chang.

Developed a geometry-aware VLA framework that distills geometric priors into multimodal representations to enhance spatial reasoning and action policy generalization, outperforming baseline on LIBERO and LIBERO-PRO benchmarks. [pdf](#)

A₁: Adaptive Truncated Vision-Language-Action Model from Affordance to Action. CVPR Finding 2026.

Kaidong Zhang, Jian Zhang, Rongtao Xu, Yu Sun, Youpeng Wen, Shuoshuo Xue, Xiaoyu Guo, **Minghao Guo**, Weijia Liufu, Liu Zihou, Jikangyi, Zihang Li, Ruiyi Chen, Meng Cao, Jingming Zhang, Shen Zhao, Xiaojun Chang, Feng Zheng, Ivan Laptev & Xiaodan Liang.

Developed a training-free early-exit acceleration mechanism and a unified two-stage VLM-action pipeline that improves spatial reasoning and achieves SOTA performance on both simulated and real robotic systems while significantly reducing inference latency. [pdf](#)

COMPETITION

Second Place at AI-driven Drug Discovery Hackathon in Abu Dhabi, hosted by Insilico Medicine, 2024

First Prize of Zhejiang Province Student Physics Innovation, Theory, 2022

Third Prize of National Zhou Peiyuan University Mechanics Competition, Individual Competition, 2021

First prize in the National University Mathematics Competition, non-mathematics group, 2021 & 2020

AWARDS AND HONORS

China Harbor Scholarship, 2022

China National Scholarship (Top 1.4%), 2021

Zhejiang University Scholarship - First Prize (Top 3%), 2021