

MINGHAO GUO

minghaoguo20@gmail.com ◇ Homepage ◇ Scholar ◇ LinkedIn ◇ GitHub

EDUCATION

MBZUAI

Aug 2024 - May 2026

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

Embodied AI and multimodal learning | Advisors: Xiaojun Chang, Xiaodan Liang

Zhejiang University

Sep 2020 - Jul 2024

B.E. Ocean Technology | GPA: 90.19/100 (3.89/4.0, Rank 5%)

The Chinese University of Hong Kong

Sep 2022 - Dec 2022

Exchange

SELECTED PUBLICATIONS

Mr.LHDR: A Benchmark for Multimodal Real-World Long-Horizon Deep Research Agents.

Minghao Guo*, Meng Cao*, Sui Zhao, Siyu Ning, Xin Wang, Haoze Zhao, Jiaxuan Yang, Haihong Hao, Mingfei Han, Shunlin Rong, Haijun Wu, Xiaodan Liang & Xiaojun Chang.

Built an open-web multimodal long-horizon deep research benchmark with Node-Relation dependency graphs and a dependency-aware checklist protocol, and compared 25 models, dedicated research systems, and agent frameworks through analyses of intermediate-chain completeness and visual evidence.

Under Review. [[paper](#)][[code](#)]

GLaD: Geometric Latent Distillation for Vision-Language-Action Models.

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

Developed a geometry-aware VLA that distills VGGT 3D priors into the LLM's visual-token hidden states during Bridge pretraining, improving LIBERO spatial reasoning and LIBERO-PRO robustness to appearance changes without depth sensors.

Under Review. [[paper](#)]

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

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 model that predicts object-centric contact points and post-contact trajectories after 1M-point pretraining, and deployed it across Franka, Kinova, Realman, and Dobot for spatially demanding real-world tasks.

ICCV 2025. [[paper](#)][[page](#)][[code](#)]

* Equal contribution.

HONORS & AWARDS

Second Place, Insilico Medicine AI Drug Discovery Hackathon

2024

China Harbor Scholarship

2022

First Prize, Zhejiang Province Physics Innovation (Theory)

2022

China National Scholarship (Top 1.4%)

2021

First Prize, Zhejiang University Scholarship (Top 3%)

2021

Third Prize, National Zhou Peiyuan Mechanics Competition (Individual)

2021

First Prize, National University Mathematics Competition (non-math)

2021 & 2020