

JIAMING HAN

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EDUCATION

PhD. in The Chinese University of Hong Kong (CUHK), China Sept.2023 - Present
Lab: [Multimedia Laboratory](#)
Advisor: Prof. [Xiangyu Yue](#)

M.S. in Wuhan University (WHU), China Sept.2019 - Jun.2022
GPA: 3.85/4
Advisor: Prof. [Gui-Song Xia](#)

B.E. in Central South University (CSU), China Sept.2015 - Jun.2019
Major: Remote Sensing Science and Technology

RESEARCH EXPERIENCE

Research Intern, VideoGen@ByteDance Seed June 2024 - Present
Mentor: Dr. [Lu Jiang](#)
Topic: Unified MLLM for Visual Understanding and Generation

Research Intern, Shanghai AI Lab Dec.2022 - Feb.2024
Mentor: Dr. [Peng Gao](#)
Topic: Vision-Language Models

Research Intern, Tencent YouTu Lab May.2021 - May.2022
Topic: Open-Set/Few-Shot Object Detection.

RESEARCH INTERESTS

Multimodal Learning, Large Language Models, Visual Generation, Object Detection.

RESEARCH PUBLICATION

Vision as a Dialect: Unifying Visual Understanding and Generation via Text-Aligned Representations arXiv preprint, 2025
Jiaming Han, Hao Chen, Yang Zhao, Hanyu Wang, Qi Zhao, Ziyang Yang, Hao He, Xiangyu Yue
Lu Jiang [\[PDF\]](#) [\[Code\]](#) [\[Demo\]](#) [\[Project Page\]](#)

CrossLMM: Decoupling Long Video Sequences from LMMs via Dual Cross-Attention Mechanisms arXiv preprint, 2025
Shilin Yan, **Jiaming Han**, Joey Tsai, Hongwei Xue, Rongyao Fang, Lingyi Hong, Ziyu Guo, Ray Zhang [\[PDF\]](#) [\[Code\]](#)

Multimodal Long Video Modeling Based on Temporal Dynamic Context
arXiv preprint, 2025
Haoran Hao*, **Jiaming Han***, Yiyuan Zhang, Xiangyu Yue
[\[PDF\]](#) [\[Code\]](#) [\[Project Page\]](#)

Reflective Planning: Vision-Language Models for Multi-Stage Long-Horizon Robotic Manipulation arXiv preprint, 2025
Yunhai Feng, **Jiaming Han**, Zhuoran Yang, Xiangyu Yue, Sergey Levine, Jianlan Luo
[\[PDF\]](#) [\[Code\]](#) [\[Project Page\]](#)

Retrieval-Augmented Personalization for Multimodal Large Language Models

IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2025
Haoran Hao*, **Jiaming Han***, Changsheng Li, Yu-Feng Li, Xiangyu Yue
[\[PDF\]](#) [\[Code\]](#) [\[Project Page\]](#)

OneLLM: One Framework to Align All Modalities with Language

IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2024
Jiaming Han, Kaixiong Gong, Yiyuan Zhang, Jiaqi Wang, Kaipeng Zhang
Dahua Lin, Yu Qiao, Peng Gao, Xiangyu Yue. CVPR 2024.
[\[PDF\]](#) [\[Code\]](#)

ImageBind-LLM: Multi-modality Instruction Tuning

Jiaming Han*, Renrui Zhang*, Wenqi Shao*, Peng Gao*, Peng Xu*, Han Xiao*
Kaipeng Zhang, Chris Liu, Song Wen, Ziyu Guo, Xudong Lu, Shuai Ren, Yafei Wen
Xiaoxin Chen, Xiangyu Yue, Hongsheng Li, Yu Qiao.
[\[PDF\]](#) [\[Code\]](#)

LLaMA-Adapter V2: Parameter-Efficient Visual Instruction Model

Peng Gao*, **Jiaming Han***, Renrui Zhang, Shijie Geng, Ziyi Lin, Aojun Zhou, Wei Zhang
Conghui He, Xiangyu Yue, Hongsheng Li, Yu Qiao
[\[PDF\]](#) [\[Code\]](#)

LLaMA-Adapter: Efficient Fine-tuning of Language Models with Zero-init Attention

The Twelfth International Conference on Learning Representations (**ICLR**), 2024
Renrui Zhang*, **Jiaming Han***, Aojun Zhou, Xiangfei Hu, Shilin Yan, Pan Lu, Hongsheng Li
Peng Gao, Yu Qiao.
[\[PDF\]](#) [\[Code\]](#) [\[Demo\]](#)

Few-Shot Object Detection via Variational Feature Aggregation

Thirty-Seventh AAAI Conference on Artificial Intelligence (**AAAI**), 2023
Jiaming Han, Yuqiang Ren, Jian Ding, Ke Yan, Gui-Song Xia
[\[PDF\]](#) [\[Code\]](#) [\[Oral Presentation\]](#)

Expanding Low-Density Latent Regions for Open-Set Object Detection

IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2022
Jiaming Han, Yuqiang Ren, Jian Ding, Xingjia Pan, Ke Yan, Gui-Song Xia
[\[PDF\]](#) [\[Code\]](#)

ReDet: A Rotation-Equivariant Detector for Aerial Object Detection

IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2021
Jiaming Han, Jian Ding, Nan Xue, Gui-Song Xia
[\[PDF\]](#) [\[Code\]](#)

Align Deep Features for Oriented Object Detection

IEEE Transactions on Geoscience and Remote Sensing (**TGRS**), 2021
Jiaming Han, Jian Ding, Jie Li, Gui-Song Xia
[\[PDF\]](#) [\[Code\]](#)

AWARDS & HONORS

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|---|-------------|
| · Outstanding Graduate Student of Wuhan University | 2021 |
| · Scholarship of China National Geological & Mining | 2017 |
| · First-Class Scholarship of Central South University | 2016 & 2017 |
| · Excellent Student of Central South University | 2016 |

TECHNICAL SKILLS

- **Programming Languages:** Python, C/C++, PHP, HTML/JavaScript/CSS, Go
- **Deep Learning Frameworks:** PyTorch, TensorFlow, Detectron2/Mmdetection
- **Tools:** Matlab, Linux, Docker, LaTeX