Haodong Duan

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Professional Experience

Post-Doctoral Researcher **2023 – Present**

Work on evaluating large language models and large multi-modal models, supervised by Prof. Dahua Lin, mentored by Dr. Kai Chen.

Applied Scientist Intern, AWS AI **2022**

Work on skeleton action recognition in the wild, mentored by Dr. Mingze Xu and Dr. Alessandro Bergamo.

Research Intern, Shanghai AI Laboratory **2021 – 2022**

Develop and maintain the OpenSource codebase MMAction2, mentored by Dr. Kai Chen.

Research Intern, Sensetime **2017 – 2019**

Work on human pose estimation (skeleton keypoints and contour keypoints), mentored by Dr. Wentao Liu.

Education

Chinese University of HongKong, HongKong **2019 – 2023**

Working on *Video Understanding*, supervised by Dahua Lin
Ph.D. in Information Engineering

Peking University, Beijing **2015 – 2019**

GPA 3.77/4.00, rank 1st in Data Science students
Undergraduate in Data Science, Yuanpei College

Projects

OpenSource Codebases:
The main contributor and maintainer of MMAction2, PYSKL, OpenCompass, VLMEvalKit.

LLM / VLM Projects:

- A main contributor of InternLM: Mainly works on Subjective Evaluation, Long-Context Evalution and Multi-Turn Dialogue Evaluation.
- A main contributor of InternLM-XComposer: Mainly works on the evalution of InternLM-XComposer.

Preprints

Lin Chen, Jinsong Li, Xiaoyi Dong, Pan Zhang, Yuhang Zang, Zehui Chen, **Haodong Duan**, Jiaqi Wang, Yu Qiao, Dahua Lin, Feng Zhao
Are We on the Right Way for Evaluating Large Vision-Language Models?

Yuan Liu, **Haodong Duan**, Yuanhan Zhang, Bo Li, Songyang Zhang, Wangbo Zhao, Yike Yuan, Jiaqi Wang, Conghui He, Ziwei Liu, Kai Chen, Dahua Lin
Mmbench: Is your multi-modal model an all-around player?

Haodong Duan, Jiaqi Wang, Kai Chen, Dahua Lin
DG-STGCN: Dynamic Spatial-Temporal Modeling for Skeleton-based Action Recognition

Publications

Hongwei Liu, Zilong Zheng, Yuxuan Qiao, **Haodong Duan**, Zhiwei Fei, Fengzhe Zhou, Wenwei Zhang, Songyang Zhang, Dahua Lin, Kai Chen
MathBench: Evaluating the Theory and Application Proficiency of LLMs with a Hierarchical Mathematics Benchmark (ACL 2024 Findings)

Chonghua Wang, **Haodong Duan**, Songyang Zhang, Dahua Lin, Kai Chen
Ada-LEval: Evaluating long-context LLMs with length-adaptable benchmarks (NAACL 2024)

Haodong Duan, Jueqi Wei, Chonghua Wang, Hongwei Liu, Yixiao Fang, Songyang Zhang, Dahua Lin, Kai Chen
BotChat: Evaluating LLMs' Capabilities of Having Multi-Turn Dialogues (NAACL 2024 Findings)

Junting Pan, Keqiang Sun, Yuying Ge, Hao Li, **Haodong Duan**, Xiaoshi Wu, Renrui Zhang, Aojun Zhou, Zipeng Qin, Yi Wang, Jifeng Dai, Yu Qiao, Hongsheng Li
Journeydb: A benchmark for generative image understanding (NeurIPS 2023 Dataset & Benchmark)

Haodong Duan, Mingze Xu, Bing Shuai, Davide Modolo, Zhuowen Tu, Joseph Tighe, Alessandro Bergamo
SkeleTR: Towards Skeleton-based Action Recognition in the Wild (ICCV 2023)

Yujie Zhou, **Haodong Duan**, Anyi Rao, Bing Su, Jiaqi Wang
Self-supervised Action Representation Learning from Partial Spatio-Temporal Skeleton Sequences (AAAI 2023)

Haodong Duan, Yue Zhao, Kai Chen, Yuanjun Xiong, Dahua Lin
Mitigating Representation Bias in Action Recognition: Algorithms and Benchmarks (ECCVW 2022)

Haodong Duan, Jiaqi Wang, Kai Chen, Dahua Lin
PYSKL: Towards Good Practices for Skeleton Action Recognition (MM 2022)

Haodong Duan, Yue Zhao, Kai Chen, Dahua Lin, Bo Dai
Revisiting Skeleton-based Action Recognition (CVPR 2022 Oral)

Haodong Duan, NanXuan Zhao, Kai Chen, Dahua Lin
TransRank: Self-supervised Video Representation Learning via Ranking-based Transformation Recognition (CVPR 2022 Oral)

Jintao Lin, **Haodong Duan**, Kai Chen, Dahua Lin, Limin Wang
OCSampler: Compressing Videos to One Clip with Single-step Sampling (CVPR 2022)

Haodong Duan, Yue Zhao, Yuanjun Xiong, Wentao Liu, Dahua Lin
Omni-sourced Webly-supervised Learning for Video Recognition (ECCV 2020)

Haodong Duan, Kwanyee Lin, Sheng Jin, Wentao Liu, Chen Qian, Wanli Ouyang
TRB: A Novel Triplet Representation for Understanding 2D Human Body (ICCV 2019)

Professional Services

Conference Reviewer: ICCV[21-23], AAAI[22-24], CVPR[22-24], ECCV[22-24], NeurIPS[22-23], WACV23, ICML23, ICLR24, EuroGraphics23

Journal Reviewer: TPAMI, IJCV, TIP, PR, TCSVT, SPL, JVCIR

Language Skills

- TOEFL iBT test: 104pt (Reading: 30, Listening: 28, Speaking: 20, Writing: 26)
- GRE test: 322pt (Verbal: 152, Quantitative: 170)