

Siteng Huang

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Education

Zhejiang University

Ph.D. - Computer Science

Hangzhou, China

Sep. 2019 – Jun. 2024

- Thesis: Model Transfer for Multimodal Understanding and Generation

Westlake University

Visiting Student & Joint Program

Hangzhou, China

Oct. 2018 – Jun. 2024

- Affiliated with Machine Intelligence Laboratory (MiLAB), advisor: Prof. Donglin Wang

Wuhan University

Bachelor of Engineering - Software Engineering

Wuhan, China

Sep. 2015 – Jun. 2019

- GPA: 3.7/4.0, Rank: 3/244

Work Experience

DAMO Academy, Alibaba Group

Algorithm Expert

Hangzhou, China

Sep. 2024 – Present

- Responsible for the development of embodied multimodal large models

Internship Experience

DAMO Academy & TongYi Lab, Alibaba Group

Research Intern

Hangzhou, China

Mar. 2022 – July. 2024

- Fundamental Visual Intelligence Team for Tongyi Wanxiang
- Directors: Gong Biao, Yu Liu, and Deli Zhao

Peer-reviewed Journal Publications (*: equal contribution, ✉: corresponding author.)

[J1] M2IST: Multi-Modal Interactive Side-Tuning for Memory-efficient Referring Expression Comprehension

Xuyang Liu, Ting Liu, **Siteng Huang**[✉], Yue Hu, Qianjun Yin, Donglin Wang, Honggang Chen[✉]

IEEE Transactions on Circuits and Systems for Video Technology (TCSVT 2025)

Peer-reviewed Conference Publications (*: equal contribution, ✉: corresponding author.)

[C1] QUART-Online: Latency-Free Large Multimodal Language Model for Quadruped Robot Learning

Xinyang Tong, Pengxiang Ding, Donglin Wang, Wenjie Zhang, Can Cui, Mingyang Sun, Yiguo Fan, Han Zhao, Hongyin Zhang, Yonghao Dang, **Siteng Huang**, Shangke Lyu

The 2025 IEEE International Conference on Robotics and Automation (ICRA 2025)

[C2] Accelerating Diffusion Transformers with Token-wise Feature Caching

Chang Zou*, Xuyang Liu*, Ting Liu, **Siteng Huang**, Linfeng Zhang

The 13th International Conference on Learning Representations (ICLR 2025)

[C3] Cobra: Extending Mamba to Multi-Modal Large Language Model for Efficient Inference

Han Zhao, Min Zhang, Wei Zhao, Pengxiang Ding, **Siteng Huang**, Donglin Wang

The 39th AAAI Conference on Artificial Intelligence (AAAI 2025)

[C4] ProFD: Prompt-Guided Feature Disentangling for Occluded Person Re-Identification

Can Cui*, **Siteng Huang***, Wenxuan Song, Pengxiang Ding, Zhang Min, Donglin Wang

ACM Multimedia 2024 (ACMMM 2024)

[C5] PiTe: Pixel-Temporal Alignment for Large Video-Language Model

Yang Liu, Pengxiang Ding, **Siteng Huang**, Min Zhang, Han Zhao, Donglin Wang

European Conference on Computer Vision 2024 (ECCV 2024)

[C6] QUAR-VLA: Vision-Language-Action Model for Quadruped Robots

Pengxiang Ding, Han Zhao, Wenxuan Song, Wenjie Zhang, Min Zhang, **Siteng Huang**, Ningxi Yang, *et al.*

European Conference on Computer Vision 2024 (ECCV 2024)

- [C7] **Learning Disentangled Identifiers for Action-Customized Text-to-Image Generation**
Siteng Huang, Biao Gong, Yutong Feng, Xi Chen, Yuqian Fu, Yu Liu, Donglin Wang
IEEE/CVF Conference on Computer Vision and Pattern Recognition 2024 (CVPR 2024)
- [C8] **Troika: Multi-Path Cross-Modal Traction for Compositional Zero-Shot Learning**
Siteng Huang, Biao Gong, Yutong Feng, Yiliang Lv, Donglin Wang
IEEE/CVF Conference on Computer Vision and Pattern Recognition 2024 (CVPR 2024)
- [C9] **Check, Locate, Rectify: A Training-Free Layout Calibration System for Text-to-Image Generation**
Biao Gong*, Siteng Huang*, Yutong Feng, Shiwei Zhang, Yuyuan Li, Yu Liu
IEEE/CVF Conference on Computer Vision and Pattern Recognition 2024 (CVPR 2024)
- [C10] **DARA: Domain- and Relation-aware Adapters Make Parameter-efficient Tuning for Visual Grounding**
Ting Liu, Xuyang Liu, Siteng Huang, Honggang Chen, Quanjun Yin, Long Qin, Donglin Wang, Yue Hu
IEEE Conference on Multimedia Expo 2024 (ICME 2024)
- [C11] **VGDifZero: Text-to-image Diffusion Models Can Be Zero-shot Visual Grounders**
Xuyang Liu*, Siteng Huang*, Yachen Kang, Honggang Chen, Donglin Wang
IEEE International Conference on Acoustics, Speech and Signal Processing 2024 (ICASSP 2024)
- [C12] **Prompt-based Distribution Alignment for Unsupervised Domain Adaptation**
Shuanghao Bai, Min Zhang, Wanqi Zhou, Siteng Huang, Zhirong Luan, Donglin Wang, Badong Chen
The 38th AAAI Conference on Artificial Intelligence (AAAI 2024)
- [C13] **VoP: Text-Video Co-operative Prompt Tuning for Cross-Modal Retrieval**
Siteng Huang, Biao Gong, Yulin Pan, Jianwen Jiang, Yiliang Lv, Yuyuan Li, Donglin Wang
IEEE/CVF Conference on Computer Vision and Pattern Recognition 2023 (CVPR 2023)
- [C14] **Reference-Limited Compositional Zero-Shot Learning**
Siteng Huang, Qiyao Wei, Donglin Wang
ACM International Conference on Multimedia Retrieval 2023 (ICMR 2023)
- [C15] **Tree Structure-Aware Few-Shot Image Classification via Hierarchical Aggregation**
Min Zhang, Siteng Huang, Wenbin Li, Donglin Wang
European Conference on Computer Vision 2022 (ECCV 2022)
- [C16] **Domain Generalized Few-shot Image Classification via Meta Regularization Network**
Min Zhang, Siteng Huang, Donglin Wang
IEEE International Conference on Acoustics, Speech and Signal Processing 2022 (ICASSP 2022)
- [C17] **HINFShot: A Challenge Dataset for Few-Shot Node Classification in Heterogeneous Information Network**
Zifeng Zhuang, Xintao Xiang, Siteng Huang, Donglin Wang
ACM International Conference on Multimedia Retrieval 2021 (ICMR 2021)
- [C18] **Pareto Self-Supervised Training for Few-Shot Learning**
Zhengyu Chen, Jixie Ge, Heshen Zhan, Siteng Huang, Donglin Wang
IEEE/CVF Conference on Computer Vision and Pattern Recognition 2021 (CVPR 2021)
- [C19] **Attributes-Guided and Pure-Visual Attention Alignment for Few-Shot Recognition**
Siteng Huang, Min Zhang, Yachen Kang, Donglin Wang
The 35th AAAI Conference on Artificial Intelligence (AAAI 2021)
- [C20] **DSANet: Dual Self-Attention Network for Multivariate Time Series Forecasting**
Siteng Huang, Donglin Wang, Xuehan Wu, Ao Tang
The 28th ACM International Conference on Information and Knowledge Management (CIKM 2019)

Preprints & Under Review (Only including publicly available work.)

- [P1] **OpenHelix: A Short Survey, Empirical Analysis, and Open-Source Dual-System VLA Model for Robotic Manipulation**
Can Cui, Pengxiang Ding, Wenxuan Song, Shuanghao Bai, Xinyang Tong, Zirui Ge, Runze Suo, Wanqi Zhou, Yang Liu, Bofang Jia, Han Zhao, Siteng Huang, Donglin Wang
- [P2] **Unicorn: Text-Only Data Synthesis for Vision Language Model Training**
Xiaomin Yu, Pengxiang Ding, Wenjie Zhang, Siteng Huang, Songyang Gao, Chengwei Qin, Kejian Wu, Zhaoxin Fan, Ziyue Qiao, Donglin Wang

- [P3] **Humanoid-VLA: Towards Universal Humanoid Control with Visual Integration**
Minghui Lin, Xiang Wang, Yishan Wang, Shu Wang, Fengqi Dai, Pengxiang Ding, Cunxiang Wang, Zhengrong Zuo, Nong Sang, **Siteng Huang**[✉], and Donglin Wang[✉]
- [P4] **Humanoid-VLA: Towards Universal Humanoid Control with Visual Integration**
Pengxiang Ding, Jianfei Ma, Xinyang Tong, Binghong Zou, Xinxin Luo, Yiguo Fan, Ting Wang, Hongchao Lu, Panzhong Mo, Jinxin Liu, Yuefan Wang, Huaicheng Zhou, Wenshuo Feng, Jiacheng Liu, **Siteng Huang**, Donglin Wang
- [P5] **Global Compression Commander: Plug-and-Play Inference Acceleration for High-Resolution Large Vision-Language Models**
Xuyang Liu, Ziming Wang, Yuhang Han, Yingyao Wang, Jiale Yuan, Jun Song, Bo Zheng, Linfeng Zhang, **Siteng Huang**, Honggang Chen
- [P6] **Score and Distribution Matching Policy: Advanced Accelerated Visuomotor Policies via Matched Distillation**
Bofang Jia, Pengxiang Ding, Can Cui, Mingyang Sun, Pengfang Qian, **Siteng Huang**, Zhaoxin Fan, Donglin Wang
- [P7] **CARP: Visuomotor Policy Learning via Coarse-to-Fine Autoregressive Prediction**
Zhefei Gong, Pengxiang Ding, Shangke Lyu, **Siteng Huang**, Mingyang Sun, Wei Zhao, Zhaoxin Fan, Donglin Wang
- [P8] **Filter, Correlate, Compress: Training-Free Token Reduction for MLLM Acceleration**
Yuhang Han*, Xuyang Liu*, Zihan Zhang, Pengxiang Ding, Donglin Wang, Honggang Chen, Qingsen Yan, **Siteng Huang**[✉]
- [P9] **Sparse-Tuning: Adapting Vision Transformers with Efficient Fine-tuning and Inference**
Ting Liu, Xuyang Liu, **Siteng Huang**, Liangtao Shi, Zunnan Xu, Yi Xin, Qianjun Yin, Xiaohong Liu
- [P10] **Focus-Consistent Multi-Level Aggregation for Compositional Zero-Shot Learning**
Fengyuan Dai, **Siteng Huang**, Min Zhang, Biao Gong, Donglin Wang

Professional Services

- **Journal reviewer** for TNNLS, TCSVT, ACM TIST, JVCI, CPE
- **Conference reviewer** for CVPR, ICCV, ECCV, AAAI, IJCAI, ACMMM, ICME, ICMR, ACCV, ICPR

Honors & Awards

- Outstanding Graduates, Zhejiang University 2024
- **National Scholarship (Top 1%, highest scholarship from Ministry of Education of China)** 2020
- Postgraduate Academic Fellowship, Zhejiang University 2019–2024
- Excellent Student Scholarship, Wuhan University (Top 5%) 2016–2019