Siteng Huang

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Education

Zhejiang University

Hangzhou, China

Ph.D. - Computer Science

Sep. 2019 - Jul. 2024

• Thesis: Model Transfer for Multimodal Understanding and Generation

Westlake University

Hangzhou, China

Visiting Student & Joint-Supervision Program

Oct. 2018 – Jul. 2024

• Advisor: Prof. Donglin Wang

• Affiliated with Machine Intelligence Laboratory (MiLAB)

Wuhan University

Wuhan, China

Bachelor of Engineering - Software Engineering

Sep. 2015 – Jun. 2019

• GPA: 3.7/4.0, Rank: 3/244

Research Areas

Focusing on multi-modal large models, especially vision-language models (VLMs), including

- Generation/AIGC: text-to-image/video (T2I/V) generation, customized & controllable generation, test-time diffusion intervention, multi-modal large language models (MLLMs)
- Understanding: text-video retrieval, compositional zero-shot learning, few-shot learning, visual grounding
- Transfer: parameter-efficient fine-tuning (PEFT/PETL), meta-learning, domain adaptation
- Embodied AI: foundation models for robotics

Professional Experience

DAMO Academy/TongYi Lab, Alibaba Group

Research Intern

Hangzhou, China Mar. 2022 – Present

• Directors: Gong Biao, Yu Liu, and Deli Zhao.

Peer-reviewed Conference Publications

(* denotes equal contribution.)

- [C1] 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)
- [C2] 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)
- [C3] 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)
- [C4] 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)
- [C5] VGDiffZero: 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)
- [C6] 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)
- [C7] 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)

[C8]	Reference-Limited Compositional Zero-Shot Learning
	Siteng Huang, Qiyao Wei, Donglin Wang
	ACM International Conference on Multimedia Retrieval 2023 (ICMR 2023)
[C9]	Tree Structure-Aware Few-Shot Image Classification via Hierarchical Aggregation

- [C9] 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)
- [C10] 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)
- [C11] 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)

- [C12] 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)
- [C13] 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)
- [C14] 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. A total of eight papers have been completed and submitted.)

- [P1] Focus-Consistent Multi-Level Aggregation for Compositional Zero-Shot Learning Fengyuan Dai, Siteng Huang, Min Zhang, Biao Gong, Donglin Wang
- [P2] Cobra: Extending Mamba to Multi-modal Large Language Model for Efficient Inference Han Zhao, Min Zhang, Pengxiang Ding, Wei Zhao, Siteng Huang, Donglin Wang
- [P3] Sparse-Tuning: Adapting Vision Transformers with Efficient Fine-tuning and Inference Ting Liu, Xuyang Liu, Liangtao Shi, Zunnan Xu, Siteng Huang, Yi Xin, Quanjun Yin
- [P4] QUAR-VLA: Vision-Language-Action Model for Quadruped Robots
 Pengxiang Ding, Han Zhao, Wenxuan Song, Wenjie Zhang, Min Zhang, Siteng Huang, Ningxi Yang, Donglin Wang

Professional Services

- Journal reviewer for TNNLS, ACM TIST, CPE
- Conference reviewer for CVPR, ICCV, ECCV, AAAI, IJCAI, 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