Siteng Huang

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Education

Zhejiang University

Hangzhou, China

Ph.D. - Computer Science

Sep. 2019 – Jul. 2024 (Expected)

• Thesis: Model Transfer for Multimodal Understanding and Generation

Westlake University

Hangzhou, China

Visiting Student & Joint-Supervision Program

Oct. 2018 – Jul. 2024 (Expected)

• 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)

	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 WEEF Interpretation of Conference on Accounting Speech and Signal Proceedings 2022 (ICASSR 2022)
FG113	IEEE International Conference on Acoustics, Speech and Signal Processing 2022 (ICASSP 2022)
[CII]	HINFShot: A Challenge Dataset for Few-Shot Node Classification in Heterogeneous Information Net-
	work 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)
Prep	prints & Under Review
(Only	y 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
[1 2]	Han Zhao, Min Zhang, Pengxiang Ding, Wei Zhao, Siteng Huang , Donglin Wang
[P3]	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
Prof	fessional Services
•	Journal reviewer for TNNLS, ACM TIST, CPE
	Conference reviewer for CVPR, ICCV, ECCV, AAAI, IJCAI, ICME, ICMR, ACCV, ICPR
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• National Scholarship (Top 1%, highest scholarship from Ministry of Education of China)

2024

2020

2019-2024

2016-2019

[C8] Reference-Limited Compositional Zero-Shot Learning

Min Zhang, Siteng Huang, Wenbin Li, Donglin Wang

ACM International Conference on Multimedia Retrieval 2023 (ICMR 2023)

[C9] Tree Structure-Aware Few-Shot Image Classification via Hierarchical Aggregation

Siteng Huang, Qiyao Wei, Donglin Wang

Honors & Awards

• Outstanding Graduates, Zhejiang University

• Postgraduate Academic Fellowship, Zhejiang University

• Excellent Student Scholarship, Wuhan University (Top 5%)