

Siteng Huang

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Education

Zhejiang University

Ph.D. - Computer Science

Hangzhou, China

Sep. 2019 – Jul. 2024 (Expected)

- Thesis: Model Transfer for Multimodal Understanding and Generation

Westlake University

Visiting Student & Joint-Supervision Program

Hangzhou, China

Oct. 2018 – Jul. 2024 (Expected)

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

Wuhan University

Bachelor of Engineering - Software Engineering

Wuhan, China

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: Dr. Deli Zhao and Dr. Yu Liu.

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] 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)

[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**
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 seven papers have been completed.)

- [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] **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