

# Siteng Huang

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## Education

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### 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-Supervision Program*

Hangzhou, China

Oct. 2018 – Jun. 2024

- 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

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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**: vision-language-action models (VLAs), foundation models for robotics

## Professional Experience

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### DAMO Academy/TongYi Lab, Alibaba Group

*Research Intern*

Hangzhou, China

Mar. 2022 – July. 2024

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

## Peer-reviewed Conference Publications

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(\* denotes equal contribution.)

### [C1] 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)*

### [C2] 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  
*European Conference on Computer Vision 2024 (ECCV 2024)*

### [C3] 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)*

### [C4] 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)*

### [C5] 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)*

### [C6] DARA: Domain- and Relation-aware Adapters Make Parameter-efficient Tuning for Visual Grounding

Ting Liu, Xuyang Liu, **Siteng Huang**, Honggang Chen, Qunjun Yin, Long Qin, Donglin Wang, Yue Hu  
*IEEE Conference on Multimedia Expo 2024 (ICME 2024)*

- [C7] **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)*
- [C8] **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)*
- [C9] **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)*
- [C10] **Reference-Limited Compositional Zero-Shot Learning**  
**Siteng Huang**, Qiyao Wei, Donglin Wang  
*ACM International Conference on Multimedia Retrieval 2023 (ICMR 2023)*
- [C11] **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)*
- [C12] **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)*
- [C13] **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)*
- [C14] **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)*
- [C15] **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)*
- [C16] **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

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(Only including publicly available work.)

- [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, Qunjun Yin

## Professional Services

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

## Honors & Awards

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- 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