# **Siteng Huang**

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## Work Experience

#### DAMO Academy, Alibaba Group

Algorithm Expert

Hangzhou, China

Sep. 2024 – Present

- Embodied Intelligence Lab for RynnBot
- Projects: RynnVLA-001, WorldVLA

#### TongYi Lab & DAMO Academy, Alibaba Group

Research Intern

Hangzhou, China

Mar. 2022 - July. 2024

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

#### **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

## **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**<sup>⊠</sup>, Yue Hu, Quanjun Yin, Donglin Wang, Honggang Chen<sup>⊠</sup> IEEE Transactions on Circuits and Systems for Video Technology (TCSVT 2025)

#### **Peer-reviewed Conference Publications** (\*: equal contribution, ⊠: corresponding author.)

[C1] Long-VLA: Unleashing Long-Horizon Capability of Vision Language Action Model for Robot Manipulation

Yiguo Fan, Shuanghao Bai, Xinyang Tong, Pengxiang Ding, Yuyang Zhu, Hongchao Lu, Fengqi Dai, Wei Zhao, Yang Liu, Siteng Huang, Zhaoxin Fan, Badong Chen, Donglin Wang The 9th Annual Conference on Robot Learning (CoRL 2025)

[C2] 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

*International Conference on Computer Vision 2025* (ICCV 2025)

[C3] 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)

[C4] 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)

[C5] 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)

[C6] ProFD: Prompt-Guided Feature Disentangling for Occluded Person Re-Identification Can Cui\*, Siteng Huang\*, Wenxuan Song, Pengxiang Ding, Zhang Min, Donglin Wang

- [C7] **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)
- [C8] 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)
- [C9] 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)
- [C10] 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)
- [C11] 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)
- [C12] 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)
- [C13] 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)
- [C14] 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)
- [C15] 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)
- [C16] Reference-Limited Compositional Zero-Shot Learning Siteng Huang, Qiyao Wei, Donglin Wang ACM International Conference on Multimedia Retrieval 2023 (ICMR 2023)
- [C17] 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)
- [C18] 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)
- [C19] 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)

- [C20] 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)
- [C21] 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)
- [C22] 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)

- [P1] WorldVLA: Towards Autoregressive Action World Model Jun Cen, Chaohui Yu, Hangjie Yuan, Yuming Jiang, Siteng Huang, Jiayan Guo, Xin Li, Yibing Song, Hao Luo, Fan Wang, Deli Zhao, Hao Chen
- [P2] VARD: Efficient and Dense Fine-Tuning for Diffusion Models with Value-based RL Fengyuan Dai\*, Zifeng Zhuang\*, Yufei Huang, Siteng Huang, Bangyan Liao, Donglin Wang, Fajie Yuan
- [P3] SSR: Enhancing Depth Perception in Vision-Language Models via Rationale-Guided Spatial Reasoning Yang Liu, Ming Ma, Xiaomin Yu, Pengxiang Ding, Han Zhao, Mingyang Sun, Siteng Huang, Donglin Wang
- [P4] 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
- [P5] 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
- [P6] Exploring the Evolution of Physics Cognition in Video Generation: A Survey
  Minghui Lin, Xiang Wang, Yishan Wang, Shu Wang, Fengqi Dai, Pengxiang Ding, Cunxiang Wang, Zhengrong Zuo, Nong Sang, Siteng Huang<sup>™</sup>, and Donglin Wang<sup>™</sup>
- [P7] 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
- [P8] 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
- [P9] 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
- [P10] 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<sup>™</sup>
- [P11] Sparse-Tuning: Adapting Vision Transformers with Efficient Fine-tuning and Inference Ting Liu, Xuyang Liu, Siteng Huang, Liangtao Shi, Zunnan Xu, Yi Xin, Quanjun Yin, Xiaohong Liu
- [P12] 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 RA-L, 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