Siteng Huang

Westlake University (Yungu Campus), No.600 Dunyu Road, Sandun Town, Xihu District, Hangzhou, 310030, P.R.China

huangsiteng@westlake.edu.cn

Personal Page | Google Scholar | Github | Blog

RESEARCH AREAS

As a 4th year Ph.D. Student in Artificial Intelligence (AI), Machine Learning (ML) and Deep Learning (DL), my research has centered on

- **Transfer Learning**: parameter-efficient transfer learning, meta-learning
- **Multi-modal Learning**: vision-language pre-training, text-video retrieval
- **Computer Vision**: few-shot learning, compositional zero-shot learning

EDUCATION

Zhejiang University & Westlake University, Hangzhou, China   *Sep. 2019 – Jun. 2024 (Expected)*

Joint Ph.D. Student, Computer Science

- Affiliated with Machine Intelligence Laboratory (MiLAB), Advisor: Dr. Donglin Wang
- National Scholarship for Ph.D. Students (2019~2020)

Wuhan University, Wuhan, China   *Sep. 2015 – Jun. 2019*

Bachelor of Engineering, Software Engineering

- GPA: 3.65/4.0 (Top 10%)
- Merit Scholarship (First Prize×1, Second Prize×2)

PROFESSIONAL EXPERIENCE

DAMO Academy, Alibaba Group   *Mar. 2022 – Present*

Research Intern

- Developed parameter-efficient transfer learning methods to effectively adapt pre-trained vision-language models (*e.g.*, CLIP) to downstream tasks, such as text-video retrieval and compositional zero-shot learning.

PUBLICATIONS

Preprints & Under Submission

- **Siteng Huang**, Biao Gong, Yutong Feng, Yiliang Lv, Donglin Wang, "Troika: Multi-Path Cross-Modal Traction for Compositional Zero-Shot Learning". *arXiv preprint arXiv:2303.15230.* [PDF]

Peer-reviewed Conference

- **Siteng Huang**, Biao Gong, Yulin Pan, Jianwen Jiang, Yiliang Lv, Yuyuan Li, Donglin Wang, "VoP: Text-Video Co-operative Prompt Tuning for Cross-Modal Retrieval". In *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition 2023* (**CVPR 2023**). [PDF]

- **Siteng Huang**, Qiyao Wei, Donglin Wang, "Reference-Limited Compositional Zero-Shot Learning". In *Proceedings of the 2023 ACM International Conference on Multimedia Retrieval* (**ICMR 2023**). [PDF]

- Min Zhang, **Siteng Huang**, Wenbin Li, Donglin Wang, "Tree Structure-Aware Few-Shot Image Classification via Hierarchical Aggregation". In *Proceedings of the European Conference on Computer Vision 2022* (**ECCV 2022**). [PDF]

- Min Zhang, **Siteng Huang**, Donglin Wang, "Domain Generalized Few-shot Image Classification via Meta Regularization Network". In *Proceedings of the 2022 IEEE International Conference on Acoustics, Speech and Signal Processing* (**ICASSP 2022**). [PDF]

- Zifeng Zhuang, Xintao Xiang, **Siteng Huang**, Donglin Wang, "HINFShot: A Challenge Dataset for Few-Shot Node Classification in Heterogeneous Information Network". In *Proceedings of the 2021 International Conference on Multimedia Retrieval* (**ICMR 2021**). [PDF]

- Zhengyu Chen, Jixie Ge, Heshen Zhan, **Siteng Huang**, Donglin Wang, "Pareto Self-Supervised Training for Few-Shot Learning". In *Proceedings of the 2021 IEEE/CVF Conference on Computer Vision and Pattern Recognition* (**CVPR 2021**). [PDF]

- **Siteng Huang**, Min Zhang, Yachen Kang, Donglin Wang, "Attributes-Guided and Pure-Visual Attention Alignment for Few-Shot Recognition". In *Proceedings of the 35th AAAI Conference on Artificial Intelligence* (**AAAI 2021**). [PDF]
- **Siteng Huang**, Donglin Wang, Xuehan Wu, Ao Tang, "DSANet: Dual Self-Attention Network for Multivariate Time Series Forecasting". In *Proceedings of the 28th ACM International Conference on Information and Knowledge Management* (**CIKM 2019**). [PDF], **130+ citations**.

PROFESSIONAL SERVICES

Journal Reviewer
- IEEE Transactions on Neural Networks and Learning Systems (TNNLS)

SKILLS AND OTHERS

- Languages: Chinese (Native), English (Fluent)
- Software & Programming Languages: Python, PyTorch, LaTeX, Git, VSCode