WANG, ZE DONG

★ jacky1128.github.io **G** Scholar (H-index:**7**; Citations:**290**) **Y** X **Q** GitHub (Stars:**1.7K+**) **Z** zedong.wang@connect.ust.hk

EDUCATION

The Hong Kong University of Science and Technology (HKUST)

February 2025 - June 2029

Ph.D. in Computer Science and Engineering

Kowloon, Hong Kong

- Advisor: Prof. Dan Xu
- Research Topics: Efficient Multi-Task Learning.

Huazhong University of Science and Technology

September 2019 - June 2023

B.Eng. in Electronic and Information Engineering

Wuhan, China

- Advisor: Prof. Xinggang Wang
- Thesis: Efficient ConvNet-based Vision Backbone for Multiple Tasks. (92/100, full grade in NOVELTY sub-term)
- AI Relevant Courses (90.0/100): Intro to Green Communication (95), Engineering Training (94), Multimedia Retrieval (93), Undergrad Thesis (92), Software Project (92), Principles and Applications of Sensors (90), Python Programming (87), Capstone Project (87), Deep Learning and Computer Vision (87), Machine Learning (85).

SELECTED PUBLICATIONS (*: EQUAL CONTRIBUTION; †: CORRESPONDING AUTHOR)

Unveiling the Backbone-Optimizer Coupling Bias in Visual Representation Learning arXiv 2024 Siyuan Li*, Juanxi Tian*, **Zedong Wang***, Luyuan Zhang, Zicheng Liu, Weiyang Jin, Stan Z. Li[†] Cited by 1 Preprint, Under-review. ↑ HF Page A Survey on Mixup Augmentations and Beyond arXiv 2024 Xin Jin, Hongyu Zhu, Siyuan Li, **Zedong Wang**, Zicheng Liu, Chang Yu, Huafeng Qin, Stan Z. Li[†] Preprint, Under-review. VQDNA: Unleashing the Power of Vector Quantization for Multi-Species Genomic Sequence Modeling ICML 2024 Siyuan Li*, **Zedong Wang***, Zicheng Liu, Cheng Tan, Jiangbin Zheng, Yufei Huang, Stan Z. Li[†] Cited by 8 Accepted at The Forty-first International Conference on Machine Learning (ICML), 2024. Short-Long Convolutions Help Hardware-Efficient Linear Attention to Focus on Long Sequences **ICML 2024** Zicheng Liu, Siyuan Li, Li Wang, **Zedong Wang**, Yunfan Liu, Stan Z. Li[†] Cited by 6 Accepted at The Forty-first International Conference on Machine Learning (ICML), 2024. LongVQ: Long Sequence Modeling with Vector Quantization on Structured Memory **IJCAI 2024** Zicheng Liu, Li Wang, Siyuan Li, **Zedong Wang**, Haitao Lin, Stan Z. Li[†] Accepted at The 33rd International Joint Conference on Artificial Intelligence (IJCAI), 2024. MogaNet: Multi-order Gated Aggregation Network **ICLR 2024** Siyuan Li*, **Zedong Wang***, Zicheng Liu, Cheng Tan, Haitao Lin, Di Wu, Jiangbin Zheng, Stan Z. Li[†] Cited by 106 **Q 220** stars Accepted at The Twelfth International Conference on Learning Representations (ICLR), 2024. SemiReward: A General Reward Model for Semi-supervised Learning **ICLR 2024** Siyuan Li*, Weiyang Jin*, **Zedong Wang**, Fang Wu, Zicheng Liu, Cheng Tan, Stan Z. Li[†] Cited by 20 Accepted at The Twelfth International Conference on Learning Representations (ICLR), 2024. **O** Code OpenSTL: A Comprehensive Benchmark of Spatio-Temporal Predictive Learning NeurIPS 2023 Cheng Tan, Siyuan Li, Zhangyang Gao, Wenfei Guan, **Zedong Wang**, Zicheng Liu, Lirong Wu, Stan Z. Li[†] Cited by 68 Accepted at the Annual Conference on Neural Information Processing Systems (NeurIPS), 2023. **6** 862 stars

Masked Modeling for Self-supervised Representation Learning on Vision and Beyond

arXiv 2023

Siyuan Li*, Luyuan Zhang*, **Zedong Wang**, Di Wu, Lirong Wu, Zicheng Liu, Jun Xia, Cheng Tan,

Yang Liu, Baigui Sun, Stan Z. Li[†].

Preprint, Under-review.

OpenMixup: Open Mixup Toolbox and Benchmark for Visual Representation Learning

arXiv 2022 Cited by 40

Siyuan Li*, **Zedong Wang***, Zicheng Liu, Di Wu, Cheng Tan, Stan Z. Li[†].

640 stars

Preprint, Under-review.

EXPERIENCE & PROJECTS

ZEEKR Intelligent Technology

April 2024 - Present

Research Intern (HKUST & ZEEKR University-Enterprise Cooperation)

Hangzhou, China

- Advisor: Prof. Dan Xu.
- Topics: Multi-Task Learning in Autonomous Driving.

Stan Z. Li's AI Lab, School of Engineering, Westlake University

July 2022 - March 2024

Summer Research Intern (2022), Visiting Student (2022-2024)

Hangzhou, China

- Advisor: Chair Prof. Stan Z. Li (IEEE Fellow, IAPR Fellow).
- Topics: Visual Representation Learning and AI for Life Science.

Cantambar

September 2021 - June 2022

Wuhan, China

- HUST Vision Lab, Huazhong University of Science and Technology Undergraduate Research Intern, Final Year Project for Bachelor degree
- Advisor: Prof. Xinggang Wang.
- Topics: Few-shot Semantic Segmentation.

SIAT-MMLab, Shenzhen Institute of Advanced Technology, CAS

June 2021 - September 2021

Summer Research Intern

Shenzhen, China

• Topics: Semantic Segmentation and Text Spotting.

Contributed Open-Source Projects and Libraries:

July 2021 - Present

- OpenMixup: Open-Source Toolbox and Benchmark for Mixup-based Visual Recognition. 640 stars, 58 forks
- OpenSTL: Open-Source Toolbox and Benchmark for Video Prediction. (NeurIPS 2023). Q 862 stars, 99 forks
- Awesome-Optimizers: Open-Source Collection of Optimization Algorithms.

 10 stars, 2 forks

SERVICES

Conference Reviewer / PC Member:

July 2023 - Present

- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2025.
- IEEE/CVF International Conference on Computer Vision (ICCV), 2025.
- European Conference on Computer Vision (ECCV), 2024.
- International Conference on Learning Representations (ICLR), 2025.
- International Conference on Machine Learning (ICML), 2024, 2025.
- AAAI Conference on Artificial Intelligence (AAAI), 2025.
- ACM International Conference on Multimedia (ACM MM), 2024.
- BMVA The British Machine Vision Conference (BMVC), 2024.

July 2023 - Present

• IEEE Transactions on Knowledge and Data Engineerings (TKDE).

SELECTED AWARDS AND HONORS

ACM MM 2024 Outstanding Reviewer

November 2024

Rate: 139/X.

BMVC 2024 Outstanding Reviewer

November 2024

Rate: 19.3% (166/860).

ECCV 2024 Outstanding Reviewer

September 2024

Rate: 2.7% (198/7293).

MISCELLANEOUS

Deep Learning Frameworks: PyTorch, PyTorch Lightning.

Languages: Chinese (native); English (IELTS: 7.5, with L: 8.5, R: 6.5, W: 7.0, S: 7.0, in 2023)