

ZEDONG WANG

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EDUCATION

The Hong Kong University of Science and Technology (HKUST)

Feb 2025 - Jun 2029

Ph.D. in Computer Science and Engineering

Hong Kong SAR

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

Huazhong University of Science and Technology







Sep 2019 - Jun 2023

B.Eng. in Electronic and Information Engineering





Wuhan, China

- Advisor: Prof. **Xinggang Wang**
- Thesis: Efficient ConvNet-based Vision Backbone for Multiple Tasks (Grade: 92/100, full marks in novelty)

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

- Rep-MTL: Unleashing the Power of Representation-level Task Saliency for Multi-Task Learning** **ICCV 2025 Highlight**
Zedong Wang, Siyuan Li, Dan Xu[†]
IEEE/CVF International Conference on Computer Vision (ICCV), 2025, Highlight
- Taming LLMs by Scaling Learning Rates with Gradient Grouping** **ACL 2025**
Siyuan Li*, Juanxi Tian*, **Zedong Wang***, Xin Jin, Zicheng Liu[†], Wentao Zhang, Dan Xu
The 63rd Annual Meeting of the Association for Computational Linguistics (ACL), 2025  **HF Daily #4**
- MergeVQ: A Unified Framework for Visual Generation & Representation with Token Merging** **CVPR 2025**
Siyuan Li*, Luyuan Zhang*, **Zedong Wang**, Juanxi Tian, Qingsong Xie, Haoqian Wang, Zhen Lei[†]
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2025  **HF Daily #1**
- 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[†]
Preprint, Under-review Cited by **4**
- 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 Cited by **11**
- 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[†]
The Forty-first International Conference on Machine Learning (ICML), 2024 Cited by **13**
- 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[†]
The Forty-first International Conference on Machine Learning (ICML), 2024 Cited by **8**
- 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[†]
The Twelfth International Conference on Learning Representations (ICLR), 2024 Cited by **162**
 **232 stars**
- 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[†]
The Twelfth International Conference on Learning Representations (ICLR), 2024 Cited by **26**
 **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[†]
The Annual Conference on Neural Information Processing Systems (NeurIPS), 2023 Cited by **89**
 **924 stars**
- OpenMixup: Open Mixup Toolbox and Benchmark for Visual Representation Learning** **arXiv 2022**
Siyuan Li*, **Zedong Wang***, Zicheng Liu, Di Wu, Cheng Tan, Stan Z. Li[†].
Preprint, Under-review Cited by **42**
 **650 stars**

RESEARCH EXPERIENCE & PROJECTS

The Hong Kong University of Science and Technology <i>Research Intern (HKUST-ZEEKR University-Industry Collaboration)</i> <ul style="list-style-type: none">• Advisor: Prof. Dan Xu.• Research: Efficient Multi-Task Learning in Autonomous Driving.	Apr 2024 - Feb 2025 Hangzhou, China
School of Engineering, Westlake University <i>Summer Research Intern (2022), Visiting Student (2022-2024)</i> <ul style="list-style-type: none">• Advisor: Chair Prof. Stan Z. Li (IEEE Fellow, IAPR Fellow).• Research: Visual Representation Learning and AI for Science.	Jul 2022 - Apr 2024 Hangzhou, China
HUST Vision Lab, Huazhong University of Science and Technology <i>Undergraduate Research Assistant, Final Year Project</i> <ul style="list-style-type: none">• Advisor: Prof. Xinggang Wang.• Research: Few-shot Semantic Segmentation.	Sep 2021 - Jun 2022 Wuhan, China
SIAT-MMLab, Shenzhen Institute of Advanced Technology, CAS <i>Summer Research Intern</i>	Jun 2021 - Sep 2021 Shenzhen, China
Open-Source Projects and Contributions: <ul style="list-style-type: none">• OpenMixup: Comprehensive toolbox and benchmark for mixup-based visual recognition.  652 stars, 59 forks• OpenSTL: Comprehensive toolbox for spatio-temporal predictions (NeurIPS 2023).  954 stars, 99 forks• MogaNet: Official implementation and pre-trained weights for MogaNet (ICLR 2024).  241 stars, 18 forks• MergeVQ: Official implementation & weights for MergeVQ (CVPR 2025).  38 stars, 2 forks	Jul 2021 - Present

ACADEMIC SERVICES

Conference Reviewer / Program Committee Member: <ul style="list-style-type: none">• International Conference on Learning Representations (ICLR), 2025• Annual Conference on Neural Information Processing Systems (NeurIPS), 2024, 2025• International Conference on Machine Learning (ICML), 2024, 2025• IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2025• European Conference on Computer Vision (ECCV), 2024• AAAI Conference on Artificial Intelligence (AAAI), 2025• ACM International Conference on Multimedia (ACM MM), 2024• IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2026• BMVA The British Machine Vision Conference (BMVC), 2024, 2025• IAPR International Conference on Pattern Recognition (ICPR), 2024	Jul 2023 - Present
Journal Reviewer: <ul style="list-style-type: none">• IEEE Transactions on Knowledge and Data Engineering (TKDE)	Jul 2023 - Present

SELECTED AWARDS & HONORS

ICLR 2025 Notable Reviewer <i>Top 2.6% of reviewers (473/18,323).</i>	May 2025
ACM MM 2024 Outstanding Reviewer <i>Among 139 outstanding reviewers.</i>	Nov 2024
BMVC 2024 Outstanding Reviewer <i>Top 19.3% of reviewers (166/860).</i>	Nov 2024
ECCV 2024 Outstanding Reviewer <i>Top 2.7% of reviewers (198/7,293).</i>	Sep 2024

ADDITIONAL INFORMATION

Languages: Chinese (native), English (fluent - IELTS 7.5: Listening 8.5, Reading 6.5, Writing 7.0, Speaking 7.0, 2023)
