

ZE DONG 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: Computer Vision, 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

Zedong Wang, Siyuan Li, Dan Xu[†]

(**Highlight**)

IEEE/CVF International Conference on Computer Vision (ICCV), 2025

↑ HF Daily #5

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 Annual Meeting of the Association for Computational Linguistics (ACL), 2025

↑ HF Daily #5

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[†]

Cited by 4

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[†]

Cited by 5

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 14

The 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 8

The International Conference on Machine Learning (ICML), 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 170

The International Conference on Learning Representations (ICLR), 2024

🔗 246 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[†]

Cited by 26

The International Conference on Learning Representations (ICLR), 2024.

🔗 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 90

The Annual Conference on Neural Information Processing Systems (NeurIPS), 2023.

🔗 956 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[†].

Cited by 42

Preprint, Under-review.

🔗 656 stars

RESEARCH EXPERIENCE AND 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.	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.	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
Open-Source Projects and Contributions: <ul style="list-style-type: none">• OpenMixup: Toolbox and benchmark for mixup-based visual recognition.  656 stars, 60 forks• OpenSTL: Toolbox for spatio-temporal predictions (NeurIPS 2023).  956 stars, 158 forks• MogaNet: Official implementation for MogaNet paper (ICLR 2024).  246 stars, 20 forks• MergeVQ: Official implementation for MergeVQ paper (CVPR 2025).  42 stars, 2 forks• Rep-MTL: Official implementation for Rep-MTL paper (ICCV 2025 Highlight).  16 stars, 4 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

AWARDS AND RECOGNITIONS

Notable Reviewer Award , International Conference on Learning Representations (ICLR), 2025. <i>Top 2.6% of reviewers (473/18,323).</i>	May 2025
Outstanding Reviewer Award , ACM International Conference on Multimedia (ACM MM), 2024. <i>Among 139 outstanding reviewers.</i>	Nov 2024
Outstanding Reviewer Award , The British Machine Vision Conference (BMVC), 2024. <i>Top 19.3% of reviewers (166/860).</i>	Nov 2024
Outstanding Reviewer Award , European Conference on Computer Vision (ECCV), 2024. <i>Top 2.7% of reviewers (198/7,293).</i>	Sep 2024

MISCELLANEOUS

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