

# ZEDONG WANG

🏠 jacky1128.github.io   G Scholar (H-index: 8, Citations: 410)   🐦 X   📄 GitHub (★1.8K+ stars)   ✉ zedong.wang@connect.ust.hk

## 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<sup>†</sup>  
*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<sup>†</sup>, 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<sup>†</sup>  
*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<sup>†</sup>  
*Preprint, Under-review* Cited by **2**
- 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<sup>†</sup>  
*Preprint, Under-review* Cited by **10**
- 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<sup>†</sup>  
*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<sup>†</sup>  
*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<sup>†</sup>  
*The Twelfth International Conference on Learning Representations (ICLR), 2024* Cited by **158**  
 **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<sup>†</sup>  
*The Twelfth International Conference on Learning Representations (ICLR), 2024.* Cited by **23**  
 **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<sup>†</sup>  
*The Annual Conference on Neural Information Processing Systems (NeurIPS), 2023.* Cited by **88**  
 **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<sup>†</sup>.  
*Preprint, Under-review.* Cited by **42**  
 **650 stars**

RESEARCH EXPERIENCE & PROJECTS

<b>The Hong Kong University of Science and Technology</b> <i>Research Intern (HKUST-ZEEKR University-Industry Collaboration)</i> <ul style="list-style-type: none"><li>• Advisor: Prof. <b>Dan Xu</b>.</li><li>• Research: Efficient Multi-Task Learning in Autonomous Driving.</li></ul>	Apr 2024 - Feb 2025 Hangzhou, China
<b>School of Engineering, Westlake University</b> <i>Summer Research Intern (2022), Visiting Student (2022-2024)</i> <ul style="list-style-type: none"><li>• Advisor: Chair Prof. <b>Stan Z. Li</b> (IEEE Fellow, IAPR Fellow).</li><li>• Research: Visual Representation Learning and AI for Science.</li></ul>	Jul 2022 - Apr 2024 Hangzhou, China
<b>HUST Vision Lab, Huazhong University of Science and Technology</b> <i>Undergraduate Research Assistant, Final Year Project</i> <ul style="list-style-type: none"><li>• Advisor: Prof. <b>Xinggang Wang</b>.</li><li>• Research: Few-shot Semantic Segmentation.</li></ul>	Sep 2021 - Jun 2022 Wuhan, China
<b>SIAT-MMLab, Shenzhen Institute of Advanced Technology, CAS</b> <i>Summer Research Intern</i>	Jun 2021 - Sep 2021 Shenzhen, China
<b>Open-Source Projects and Contributions:</b> <ul style="list-style-type: none"><li>• <b>OpenMixup</b>: Comprehensive toolbox and benchmark for mixup-based visual recognition.  <b>650 stars, 58 forks</b></li><li>• <b>OpenSTL</b>: Comprehensive toolbox for spatio-temporal predictions (<b>NeurIPS 2023</b>).  <b>924 stars, 99 forks</b></li><li>• <b>MogaNet</b>: Official implementation and pre-trained weights for MogaNet (<b>ICLR 2024</b>).  <b>232 stars, 18 forks</b></li><li>• <b>MergeVQ</b>: Official implementation &amp; weights for MergeVQ (<b>CVPR 2025</b>).  <b>24 stars, 2 forks</b></li></ul>	Jul 2021 - Present

ACADEMIC SERVICES

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

SELECTED AWARDS & HONORS

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

ADDITIONAL INFORMATION

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