

# WANG, ZE DONG

🏠 [jacky1128.github.io](https://jacky1128.github.io)  Scholar (H-index:6; Citations:275)  X  GitHub (Stars:1.7K+)  [zedong.wang@connect.ust.hk](mailto: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†  
*Preprint, Under-review.*

Cited by 1

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### 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†  
*Accepted at The Forty-first International Conference on Machine Learning (ICML), 2024.*

Cited by 6

### 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†  
*Accepted at The Forty-first International Conference on Machine Learning (ICML), 2024.*

Cited by 6

### 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†  
*Accepted at The Twelfth International Conference on Learning Representations (ICLR), 2024.*

Cited by 100

 218 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†  
*Accepted at The Twelfth International Conference on Learning Representations (ICLR), 2024.*

Cited by 18

 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†  
*Accepted at the Annual Conference on Neural Information Processing Systems (NeurIPS), 2023.*

Cited by 64

 856 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

Siyuan Li\*, **Zedong Wang\***, Zicheng Liu, Di Wu, Cheng Tan, Stan Z. Li†.  
*Preprint, Under-review.*

Cited by 40

 639 stars

EXPERIENCE & PROJECTS

<b>ZEEKR Intelligent Technology</b> <i>Research Intern (HKUST &amp; ZEEKR University-Enterprise Cooperation)</i> <ul style="list-style-type: none"><li>• <i>Advisor:</i> Prof. <b>Dan Xu</b>.</li><li>• <i>Topics:</i> Multi-Task Learning in Autonomous Driving.</li></ul>	April 2024 - Present Hangzhou, China
<b>Stan Z. Li's AI Lab, School of Engineering, Westlake University</b> <i>Summer Research Intern (2022), Visiting Student (2022-2024)</i> <ul style="list-style-type: none"><li>• <i>Advisor:</i> Chair Prof. <b>Stan Z. Li</b> (IEEE Fellow, IAPR Fellow).</li><li>• <i>Topics:</i> Visual Representation Learning and AI for Life Science.</li></ul>	July 2022 - March 2024 Hangzhou, China
<b>HUST Vision Lab, Huazhong University of Science and Technology</b> <i>Undergraduate Research Intern, Final Year Project for Bachelor degree</i> <ul style="list-style-type: none"><li>• <i>Advisor:</i> Prof. <b>Xinggang Wang</b>.</li><li>• <i>Topics:</i> Few-shot Semantic Segmentation.</li></ul>	September 2021 - June 2022 Wuhan, China
<b>SIAT-MMLab, Shenzhen Institute of Advanced Technology, CAS</b> <i>Summer Research Intern</i> <ul style="list-style-type: none"><li>• <i>Topics:</i> Semantic Segmentation and Text Spotting.</li></ul>	June 2021 - September 2021 Shenzhen, China
<b>Contributed Open-Source Projects and Libraries:</b> <ul style="list-style-type: none"><li>• <b>OpenMixup</b>: Open-Source Toolbox and Benchmark for Mixup-based Visual Recognition.  <b>639 stars, 60 forks</b></li><li>• <b>OpenSTL</b>: Open-Source Toolbox and Benchmark for Video Prediction. (<b>NeurIPS 2023</b>).  <b>856 stars, 99 forks</b></li><li>• <b>MogaNet</b>: Open-Source Official Implementation and Weights of MogaNet. (<b>ICLR 2024</b>).  <b>218 stars, 12 forks</b></li><li>• <b>Awesome-Optimizers</b>: Open-Source Collection of Optimization Algorithms.  <b>10 stars, 2 forks</b></li></ul>	July 2021 - Present

SERVICES

<b>Conference Reviewer / PC Member:</b> <ul style="list-style-type: none"><li>• IEEE/CVF Conference on Computer Vision and Pattern Recognition (<b>CVPR</b>), 2025.</li><li>• IEEE/CVF International Conference on Computer Vision (<b>ICCV</b>), 2025.</li><li>• European Conference on Computer Vision (<b>ECCV</b>), 2024.</li><li>• International Conference on Learning Representations (<b>ICLR</b>), 2025.</li><li>• International Conference on Machine Learning (<b>ICML</b>), 2024, 2025.</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>• BMVA The British Machine Vision Conference (<b>BMVC</b>), 2024.</li></ul>	July 2023 - Present
<b>Journal Reviewer:</b> <ul style="list-style-type: none"><li>• IEEE Transactions on Knowledge and Data Engineerings (<b>TKDE</b>).</li></ul>	July 2023 - Present

SELECTED AWARDS AND HONORS

<b>ACM MM 2024 Outstanding Reviewer</b> <i>Rate: <b>139/X</b>.</i>	November 2024
<b>BMVC 2024 Outstanding Reviewer</b> <i>Rate: <b>19.3% (166/860)</b>.</i>	November 2024
<b>ECCV 2024 Outstanding Reviewer</b> <i>Rate: <b>2.7% (198/7293)</b>.</i>	September 2024

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)