

# ZEDONG WANG

☎+86 13602591515 🏠 Homepage 📄 Google Scholar 🐦 Twitter (X) 📄 GitHub ✉jackywang28@outlook.com

## EDUCATION

**Huazhong University of Science and Technology (HUST), China**

Sep. 2019 - Jun. 2023

*B.Eng. in Electronic and Information Engineering*

**Supervisor: Prof. Xinggang Wang**

- **Thesis:** Efficient Convolutional Vision Backbone Architecture Design. **Grade: 92/100** (full score in *Novelty* term).
- **Excellent GPA across all AI-related core courses (90.0/100):** Introduction to Green Communications (95/100), Engineering Training (94/100), Multimedia Retrieval (93/100), Graduation Thesis (92/100), Software Project (92/100), Principles and Applications of Sensors (90/100), Python Programming (87/100), Capstone Project in Machine Intelligence (87/100), Deep Learning and Computer Vision (87/100), Machine Learning (85/100), and more.

## RESEARCH EXPERIENCE & PROJECTS

**The Hong Kong University of Science and Technology (HKUST)**

Apr. 2024 - Present

*Research on Multi-modal and Multi-task Representation Learning.*

**Advisor: Prof. Dan Xu**

**ZEEKR, GEELY Holding Group (Fortune Global 500)**

Apr. 2024 - Present

*Research on Multi-task Autonomous Driving Perception.*

**Advisor: ZEEKR Team**

**AI Lab, School of Engineering, Westlake University**

Jul. 2022 - Mar. 2024

*Research on Visual Representation Learning and AI for Science.*

**Advisor: Chair Prof. Stan Z. Li**

**HUST Vision Lab, School of EIC, HUST**

Sep. 2021 - Jul. 2022

*Research on Few-shot Semantic Segmentation.*

**Advisor: Prof. Xinggang Wang**

**MMLab, Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences**

Jun. 2021 - Sep. 2021

*Research on Semantic Segmentation and Text Spotting.*

**Advisor: Dr. Bin Fu**

**Contributed Open-Source Projects for Deep Learning and Computer Vision**

Jul. 2021 - Present

- **OpenMixup:** Open-Source Toolbox and Benchmark for Mixup-based Visual Recognition. 📄 **570 stars, 60 forks**
- **OpenSTL:** Open-Source Toolbox and Benchmark for Video Prediction. (NeurIPS 2023). 📄 **572 stars, 95 forks**
- **MogaNet:** Open-Source Official Implementation and Weights of MogaNet. (ICLR 2024). 📄 **129 stars, 12 forks**

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

**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†.

**MogaNet: Multi-order Gated Aggregation Network**

ICLR 2024

Siyuan Li\*, **Zedong Wang\***, Zicheng Liu, Cheng Tan, Haitao Lin, Di Wu, Zhiyuan Chen, Jiangbin Zheng, Stan Z. Li†. 📄 **Code**

**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†. 📄 **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†. 📄 **Code**

**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†. 📄 **Code**

**OpenMixup: Open Mixup Toolbox and Benchmark for Visual Representation Learning**

Arxiv 2022

Siyuan Li\*, **Zedong Wang\***, Zicheng Liu, Di Wu, Stan Z. Li†. 📄 **Code**

**Boosting Discriminative Visual Representation Learning with Scenario-Agnostic Mixup**

Arxiv 2022

Siyuan Li\*, Zicheng Liu\*, **Zedong Wang\***, Di Wu, Zihan Liu, Stan Z. Li†. 📄 **Code**

**Switch EMA: A Free Lunch for Better Flatness and Sharpness**

Arxiv 2024

Siyuan Li\*, Zicheng Liu\*, Juanxi Tian\*, Ge Wang\*, **Zedong Wang**, Weiyang Jin, Di Wu, Cheng Tan, Tao Lin, Yang Liu, Baigui Sun, Stan Z. Li†.

## ACADEMIC SERVICES

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### **Program Committee Member / Conference Reviewer**

Jul. 2023 - Present

- International Conference on Learning Representations (**ICLR**), 2024.
- International Conference on Machine Learning (**ICML**), 2024.
- European Conference on Computer Vision (**ECCV**), 2024.
- ACM International Conference on Multimedia (**ACM MM**), 2024.
- IAPR International Conference on Pattern Recognition (**ICPR**), 2024.

### **Membership**

Jul. 2023 - Present

- China Computer Federation (**CCF**), Student Member, 2024-2026.
- China Society of Image and Graphics (**CSIG**), Student Member, 2023.

## MISCELLANEOUS

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**Programming languages:** Python, C, Matlab, LaTeX.

**Deep Learning Frameworks:** PyTorch, PyTorch Lightning.

**Operating Systems:** Linux (Ubuntu, CentOS), MacOS, Windows.

**Languages:** Chinese (native); English (fluent), IELTS 7.5 (8.5, 6.5, 7, 7) in 2023, CET-4: 646 in 2020.

## ABOUT ME

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I am Zedong Wang, a Hong Kong-born AI researcher. I am currently an incoming Ph.D. student at The Hong Kong University of Science and Technology (HKUST), under the supervision of [Prof. Dan Xu](#). I was a visiting student at Westlake University, under the supervision of [Chair Prof. Stan Z. Li \(IEEE Fellow, IAPR Fellow\)](#). I received my B.Eng. degree in Electronic and Information Engineering from Huazhong University of Science and Technology (HUST) in 2023, under the supervision of [Prof. Xinggang Wang](#). My research interests center around Computer Vision, Multi-modal Learning, Multi-task Scene Understanding. My overarching research goal is to advance principled and unified (visual) representation learning that can benefit a diverse range of real-world applications. Please visit my [Homepage](#) for more details and the latest update!