

ZEDONG WANG

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EDUCATION

Huazhong University of Science and Technology (HUST), China

Sep. 2019 - Jun. 2023

B.Eng. in Electronic and Information Engineering

Supervisor: Prof. Xinggang Wang

- **Graduation Thesis:** Efficient Vision Backbone Architecture Design. **Grade: 92/100** (full score in *Novelty* sub-term)
- Undesirable overall GPA but **high** in 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 & Applications of Sensors (90/100), Python Programming (87/100), Capstone Project in Machine Intelligence (87/100), Deep Learning & Computer Vision (87/100), Machine Learning (85/100), etc.

RESEARCH EXPERIENCE & PROJECTS

The Hong Kong University of Science and Technology (HKUST)

Mar. 2024 - Present

Research on Multi-modal and Multi-task Scene Understanding.

Advisor: Prof. Dan Xu

Chair Prof. Stan Z. Li's Lab, Westlake University

Jul. 2022 - Mar. 2024

Research on Representation Learning and AI for Science.

Advisor: Chair Prof. Stan Z. Li

Prof. Xinggang Wang's 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

Open-Source Projects for Deep Learning and Computer Vision in PyTorch

Jul. 2021 - Present

- **OpenMixup:** Open-Source Toolbox and Benchmark for Mixup-based Visual Recognition. 🌟 **557 stars, 60 forks**
- **OpenSTL:** Open-Source Toolbox and Benchmark for Video Prediction. (NeurIPS 2023). 🌟 **537 stars, 91 forks**
- **MogaNet:** Open-Source Official Implementation and Weights of MogaNet. (ICLR 2024). 🌟 **115 stars, 12 forks**

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

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†.

RESEARCH SERVICES

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.
- IAPR International Conference on Pattern Recognition (**ICPR**), 2024.

MISCELLANEOUS

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

I am Zedong Wang, a Hong Kong-born AI researcher. I am currently a research intern 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!