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 (top-tier, Full Novelty Score)**
- 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.

PROJECTS & RESEARCH EXPERIENCE

The Hong Kong University of Science and Technology (HKUST)　　　　　Mar. 2024 - Present
Research on Multi-modal Learning and Multi-task Scene Understanding.　　　　**Advisor: Prof. Dan Xu**

Chair Prof. Stan Z. Li's Group, Westlake University　　　　　Jul. 2022 - Mar. 2024
Research on Representation Learning and AI for Science.　　　　**Advisor: Chair Prof. Stan Z. Li**

Prof. Xinggang Wang's Group, EIC, HUST　　　　　Mar. 2024 - Present
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　　　　　July 2021 - Present
- **OpenMixup**: Mixup-based Toolbox and Benchmark for visual representation learning. ⓞ **556 stars, 60 forks**
- **OpenSTL**: Open-source project for video prediction benchmarks **(NeurIPS 2023)**. ⓞ **534 stars, 90 forks**
- **MogaNet**: Image classification and various downstream tasks 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†.