

# 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.

## RESEARCH EXPERIENCE & OPEN-SOURCE 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**

July 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†.