Zedong Wang

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Citations: **41**, H-index: **3**   Contribute: **2**, Stars: **560**

Short Biography

I completed my B.Eng. in Electronic and Information Engineering at HUST. My research interests include representation learning, especially for efficient network architecture design as well as Vector-Quantization (VQ) based self-supervised pre-training, and AI for Life Science. Currently, I am CSIG student member and a visiting student in CAIRI AI Lab supervised by Chair Prof. Stan Z. Li (IEEE Fellow, IAPR Fellow) at Westlake University. Previously, I worked on few-shot semantic segmentation supervised by Prof. Xinggang Wang at HUST. I was a visiting student at MMLab, Shenzhen Institute of Advanced Technology (SIAT), Chinese Academy of Sciences (CAS) in 2021. I was a research intern at Key Lab of Digital Earth Science, CAS. My goal is to pursue solid AI research that exerts positive impact on the community.

Education and Degrees

2019 – 2023 **B.Eng. in Electronic and Information Engineering,** *Huazhong University of Science and Technology.*
- Broad research experience across multiple fields & Labs, finally centered on **AI & Computer Vision**. **Rich hands-on experience** & **sound research skills** in AI. | **Supervisor: Prof. Xinggang Wang**.
- High marks in **AI-related** core courses: 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)** etc.

Research Experience

Jun. 2023 **China Society of Image and Graphics (CSIG) Student Member** (recommended by Prof. Wenyu Liu), *CSIG*

Dec. 2022 **Ph.D. Pre-Offer** (recommended by Chair Prof. Stan Z. Li), *AI Division, School of Engineering, Westlake University.*

Sep. 2022 – Present **Visiting Student**, *CAIRI AI Lab (Headed by Chair Prof. Stan Z. Li), Westlake University.*
(i) Efficient data mixing augmentation. Responsible for the maintenance of `OpenMixup` (476 stars on GitHub).
(ii) Efficient visual representation learning. Co-first author of MogaNet(84 stars on GitHub).

Jul. 2022 – Sep. 2022 **Summer Research Studentship**, *School of Engineering, Westlake University.*
Advisor: Chair Prof. Stan Z. Li (2 selected out of 100+ applicants) | **Research Field:** Visual Representation Learning.

Sep. 2021 – Jun. 2022 **Research Intern**, *HUST Vision Lab, School of EIC, Huazhong University of Science and Technology.*
Advisor: Prof. Xinggang Wang | **Research Field:** Few-shot Semantic Segmentation.

Jul. 2021 – Sep. 2021 **Visiting Student**, *MMLab, Shenzhen Institute of Advanced Tech. (SIAT), Chinese Academy of Sciences.*
Advisor: Dr. Bin Fu | **Research Field:** Semantic Segmentation.

Sep. 2020 – Apr. 2021 **Research Intern**, *Key Lab of Digital Earth Science, Chinese Academy of Sciences.*
Advisor: Dr. Xiaoping Du | **Research Field:** High Resolution Remote Sensing Building Semantic Segmentation.

Publications   (*: Equal Contribution.   †: Corresponding Author)

2023 **Boosting Discriminative Visual Representation Learning with Scenario-Agnostic Mixup**.
Siyuan Li*, Zicheng Liu*, **Zedong Wang***, Di Wu, Zihan Liu, Stan Z. Li[†]

2023 **OpenSTL: A Comprehensive Benchmark of Spatio-Temporal Predictive Learning**.
Cheng Tan, Siyuan Li, Zhangyang Gao, Wenfei Guan, **Zedong Wang**, Zicheng Liu, Lirong Wu, Stan Z. Li[†]

2022 **Efficient Multi-order Gated Aggregation Network**.
Siyuan Li*, **Zedong Wang***, Zicheng Liu, Cheng Tan, Haitao Lin, Di Wu, Zhiyuan Chen, Jiangbin Zheng, Stan Z. Li[†]

2022 **OpenMixup: Open Mixup Toolbox for Visual Representation Learning**.
Siyuan Li*, **Zedong Wang***, Zicheng Liu*, Di Wu, Stan Z. Li[†]

Languages and Skills

Chinese (native), English (fluent). **IELTS 7.0**(2019) overall grades, **CET-4 646** overall grades.
Python DL Libraries, PyTorch, Linux (basic), LaTeX, Comprehensive Research Skills.