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Zedong Wang

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Citations: 39, H-index: 3

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Contribute: 2, Stars: 548

Short Biography

I completed my B.Eng. in Electronic and Information Engineering (Machine Intelligence) 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](#) 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 academic goal is to pursue solid AI research that exerts positive changes to 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 focused 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 – **Visiting Student**, [CAIRI AI Lab](#) (Headed by [Chair Prof. Stan Z. Li](#)), [Westlake University](#).
- Present (i) Mixup data augmentation algorithms. Responsible for the maintenance of [OpenMixup](#) (465 stars on GitHub).
(ii) Efficient visual representation learning. Co-first author of [MogaNet](#) (83 stars on GitHub).
- Jul. 2022 – **Summer Research Studentship**, [School of Engineering, Westlake University](#).
- Sep. 2022 **Advisor:** [Chair Prof. Stan Z. Li](#) (2 selected out of 100+ applicants) | **Research Field:** Visual Representation Learning.
- Sep. 2021 – **Research Intern**, [HUST Vision Lab, School of EIC, Huazhong University of Science and Technology](#).
- Jun. 2022 **Advisor:** [Prof. Xinggang Wang](#) | **Research Field:** Few-shot Semantic Segmentation.
- Jul. 2021 – **Visiting Student**, [MMLab, Shenzhen Institute of Advanced Tech. \(SIAT\), Chinese Academy of Sciences](#).
- Sep. 2021 **Advisor:** Dr. Bin Fu | **Research Field:** Semantic Segmentation.
- Sep. 2020 – **Research Intern**, [Key Lab of Digital Earth Science, Chinese Academy of Sciences](#).
- Apr. 2021 **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), **L^AT_EX**, Comprehensive Research Skills.