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Zedong Wang

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Citations: 37, H-index: 3

Citations: 38, H-index: 3

Contribute: 2, Stars: 542

Short Biography

I completed my B.Eng. in Electronic and Information Engineering (Machine Intelligence) at [HUST](#). Currently, I am a visiting student in [CAIRI AI Lab](#) under [Chair Professor Stan Z. Li](#) at [Westlake University](#). My research interests include visual representation learning, especially for efficient network architecture design as well as self-supervised learning, and AI for science applications. Previously, I worked on few-shot semantic segmentation supervised by [Prof. Xinggang Wang](#) at [HUST](#). I was a visiting student at [SIAT-MMLab](#), Shenzhen Institute of Advanced Technology ([SIAT](#)), Chinese Academy of Sciences (CAS) in the summer of 2021. I also conducted research internship at [Key Lab of Digital Earth Science](#), CAS. My research goal is to pursue solid AI research that makes positive changes to the community.

Education and Degrees

2019 – 2023 **B.Eng. in Electronic and Information Engineering**, *Huazhong University of Science and Technology*.

- Across the 4-year career, I went through various research areas & Labs at HUST, and finally focused on **deep learning & computer vision**. I gained hands-on experience in AI and develop sound research skills.
- 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

- Dec. 2022 **Ph.D. Pre-Offer**, *AI Division, School of Engineering, Westlake University*.
- Sep. 2022 – Present **Visiting Student**, *CAIRI AI Lab (Chair Prof. Stan Z. Li Lab), Westlake University*.
- (i) Mixup-related data augmentation methods. Responsible for the maintenance of [OpenMixup](#) (459 stars on GitHub).
- (ii) Efficient deep visual architecture design. Co-first author of [MogaNet](#) (83 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:** 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.