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Citations: 39, H-index: 3 Citations: 39, H-index: 3 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 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 SIAT-MMLab, Shenzhen Institute of Advanced Technology (SIAT), Chinese Academy of Sciences (CAS) in 2021. I also conducted research internship 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*.

- Across the 4-year career, I went through various research fields & labs at HUST, and finally focused on **AI & computer vision**. Years past, I have gained **rich hands-on experience** & **sound research skills** in AI.
- 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**(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) 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 – 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.