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Citations: 10, H-index: 2

Contribute: 1, Stars: 339

Short Biography

I am a fourth-year undergraduate student in Electronics Information Engineering at HUST. My research interests are within efficient deep representation learning for visual recognition and AI+ cross-disciplinary applications. Currently, I am a visiting student in CAIRI AI Lab under Prof. Stan Z. Li at Westlake University. Previously, I worked on few-shot semantic segmentation under Prof. Xinggang Wang at HUST. I was a visiting student at MMLab, Shenzhen Institute of Advanced Technology (SIAT), Chinese Academy of Sciences (CAS). I also conducted an internship at Key Lab of Digital Earth Science, CAS (2020 - 2021). My goal is to pursue solid AI research that makes positive changes to the community.

Education and Degrees

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

- **The 1st year**, I focused on the history and development of philosophical science as well as modern science to build a deep and clear recognition of scientific research.
- **The 2nd and 3rd years**, I went through various research aspects (e.g., complex network, machine learning, deep learning, computer vision) and finally focused my interests within deep learning and computer vision.
- High marks in **AI-related courses**: Introduction to Green Communications (**95/100**), Engineering Training (**94/100**), Multimedia Retrieval (**93/100**), Software Project (**92/100**), Principles and Applications of Sensors (**90/100**), Python programming (**87/100**), Machine Learning (**85/100**) etc.

Research Experience

- Jul. 2022 – Present **Visiting Student**, CAIRI AI Lab (Prof. Stan Z. Li Lab), Westlake University
- (i) Mixup-related data augmentation methods. Responsible for the maintenance of OpenMixup (339 stars on GitHub).
 - (ii) Efficient deep visual architecture design. Co-first author of MogaNet (44 stars on GitHub).
 - (iii) AI+ cross-disciplinary applications on CRISPR-based gene editing.
- Sep. 2021 – Jun. 2022 **Research Intern**, under Prof. Xinggang Wang, EIC, Huazhong University of Science and Technology.
- Jul. 2021 – Sep. 2021 **Visiting Student**, MMLab, Shenzhen Institute of Advanced Tech. (SIAT), Chinese Academy of Sciences.
- Sep. 2020 – Apr. 2021 **Research Intern**, Key Lab of Digital Earth Science, Chinese Academy of Sciences.
- (i) Fundamental computer vision exploration; (ii) Remote sensing building image semantic segmentation.

Publications

 (†: Equal Contribution. *: Corresponding Author)

- 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 overall grades, CET-4 646 overall grades.
Python Deep Learning Libraries, PyTorch, Linux (basic),
L^AT_EX, Comprehensive Research Skills.