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Zedong Wang

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Citations: **10**, H-index: **2**   Contribute: **2**, Stars: **432**

Short Biography

I am a fourth-year undergraduate student in Electronics Information Engineering at HUST. Currently, I am a visiting student in CAIRI AI Lab under Prof. Stan Z. Li at Westlake University. My research interests include efficient deep visual representation learning, especially for efficient deep network architecture design, and AI+ cross-disciplinary applications. 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) 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 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 (375 stars on GitHub).
(ii) Efficient deep visual architecture design. Co-first author of MogaNet (57 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*.
Few-shot Semantic Segmentation advised by Prof. Xinggang Wang.

Jul. 2021 – Sep. 2021 **Visiting Student**, *MMLab, Shenzhen Institute of Advanced Tech. (SIAT), Chinese Academy of Sciences*.
Semantic Segmentation research and vision model configuration.

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),
LaTeX , Comprehensive Research Skills.