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Zedong Wang

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Citations: **10**, H-index: **2**   Contribute: **1**, Stars: **340**

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 (340 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*.
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.