Zedong Wang

Pursue solid deep learning research.

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Short Biography

I am a Hong Kong student at Huazhong University of Science and Technology. I am working on computer vision problems with special focus on few-shot semantic segmentation, under Prof. Xinggang Wang at HUST. During the summer 2021, I fortunately worked as a visiting student of Multimedia Laboratory (MMLab), Shenzhen Institute of Advanced Technology (SIAT), Chinese Academy of Sciences (CAS). I was a deep learning research intern (remote) at Key Laboratory of Digital Earth Science, Aerospace Information Research Institute, CAS (2020 - 2021).

My academic desire is to pursue solid and interpretable deep learning research under a pure academic environment. I have been preparing for this for years. Therefore, as a passionate young researcher with clear mind, I am now sincerely applying for a PHD position in 2023 Fall.

Education and Degrees

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

- The 1st year, I focused on the development of modern science and the philosophical science to build a deep and clear recognition of the root of modern science & engineering by myself.
- The 2nd year, I tried to recognize some specific research fields in labs such as complex network, machine learning, deep learning, computer vision with diverse professors. Finally I determined my research interest and step in it.
- The 3rd year, I dig deep into deep learning and computer vision particularly few-shot semantic segmentation.
- At the same time, I have achieved good grades in Al-related courses such as Engineering training (94/100),
 Software Project (92/100) and python programming (87/100) etc.

Academic Experience

Sep. 2021 - Research Student, under Prof. Xinggang Wang, Huazhong University of Science and Technology.

present Independent few-shot semantic segmentation research under prof. Xinggang Wang.

Jul. 2021 - Visiting Student, MMLab, Shenzhen Institute of Advanced Tech. (SIAT), Chinese Academy of Sciences.

Sep. 2021 Semantic segmentation research and computer vision model configuration under Dr. Bin Fu.

Sep. 2020 - Research Intern, Key Lab of Digital Earth Science, Chinese Academy of Sciences.

Apr. 2021 1st stage: Rudiment deep learning study; 2nd stage: Independent building segmentation research under Dr. Xiaoping Du.

Aug. 2019 - Participation of a machine learning workshop (remote), Louisiana State University.

Oct. 2019 Get my 1st touch of machine learning. Pave ways for the future study and research.

Sep. 2017 - Head of STEM club, Shenzhen NanShan Foreign Language School Senior High School

Apr. 2017 1st author of a municipal invasive plants investigation thesis which won the support funds from Shenzhen city government.

Build a scientific research sense and mindset.

Languages

Chinese (native), English (fluent). IELTS 7.0 Overall Grade (2019)

Something matters (as a researcher)

What are my core competences?

1. Rich research experience in comparison with peers.

- 1) The experience shaped my scientific research recognition in early stage. I am acquainted with the research pattern, which can free me from the position transfer (from a student to a researcher) and domain adaption in the future.
 - 2) With the ups and downs in the research with different groups, I have equipped with a relatively mature research mentality. These traits can provide me a strong impetus in my future research life.

2. Habits and abilities.

1) Research habits:

- **a.** I am used to keeping myself in good conditions physically and mentally (e.g., regular physical training and meditation). Therefore, I am able to work hard if needed.
 - b. I have built regular paper reading and summarizing habit for years.
 - c. Once I have an idea or a solution, I would realize it as soon as possible.

2) Theoretically:

- **a.** I have been learning the theoretical details of deep learning building blocks. From my point of view, it really matters for solving deep learning and computer vision problems.
- **b. Creativity usually comes from details**. I have planned to make explanations of some theoretical details regularly on my homepage in the form of academic blogs.

3) Technically:

- a. I am familiar with deep learning research tools like PyTorch, computer vision model training and testing process etc.
- b. Likewise, my research source code would be updated in my homepage and GitHub if possible.

All the content above would be updated repeatedly as long as I obtain deeper recognition of them. In my view, it is not only a platform to show my academic insights and abilities, but a testimony of my lifelong learning.

3. Last and foremost, research passion and determination.

- 1) I have the internal drive for deep learning and computer vision research. Specifically, the pure research process itself can bring me great pleasure and largely propel my positive feedback loop after I am determined to do research in the past of my life.
- 2) My academic goal so to pursue solid and interpretable deep learning research under a relatively pure research environment. However, I am not in a position that allows me to do like that right now although I have been drooling over it for years. Therefore, it makes me much more eager to be a researcher to dig deep devotedly in my research field.

I believe I would be a self-motivated researcher with great potential if you give me a chance.

• Why I still have no one publication?

1. From the subjective point: My academic discipline is to do solid research rather than make bells and whistles. I am not willing to publish my works merely for an eye-catching publication data but with no concrete novelty.

2. From the objective point:

- 1) My research time is always sporadic since I am not a full-time researcher. With separated time and distractions from my school, it is hard to do independent innovative work. It is exactly the reason why I am so eager for the opportunity to do deep and solid research whole-heartedly. It is what I am longing for.
- 2) For special reasons in my department, the equipment in my lab has been shut down for months. I have been renting for device by myself for my experiments since Feb. 2022. It negatively affects my experiment progress.