JIYANG ZHENG (ROGER)

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EDUCATION

Australian National University February 2019 - December 2022 (**Expected**)

Bachelor of Advanced Computing (Honours)

Courses: statistical machine learning, computer vision, natural language processing

RESEARCH EXPERIENCE

Research Student June 2021 - Present

Data61-CSIRO & Australian National University Canberra, Australia

Supervisors: Dr. Weihao Li and Prof. Nick Barnes

Topics: open-set recognition, object detection

Vacation Research Scholar November 2021 - February 2022

Imaging and Computer Vision Group, Data61-CSIRO Canberra, Australia

Supervisors: Dr. Weihao Li and Dr. Lars Petersson

Topics: self-supervised learning, image segmentation

Summer Research Program June 2022 (Incoming) - August 2022

The Chinese University of Hong Kong Hong Kong

Supervisor: Prof. Hong Cheng

Topic: graph convolutional networks, drug-drug interaction prediction

WORK EXPERIENCE

Teaching Assistant (TA) July 2020 - Present

Australian National University Canberra, Australia

Tutored courses:

- COMP2100/6442 Software Design Methodologies (2021)
- COMP2400/6240 Relational Database (2020, 2021, 2022)
- COMP2420/6420 Introduction to Data Management, Analysis and Security (2021, 2022)
- COMP3670/6670 Introduction to Machine Learning (2021)
- ENGN4528 Computer Vision (2022)

RESEARCH PUBLICATION

1. Towards Open-Set Object Detection and Discovery
   Jiyang Zheng, Weihao Li, Jie Hong, Lars Petersson, Nick Barnes
   IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW) 2022

2. GOSS: Towards Generalized Open-set Semantic Segmentation
   Jie Hong, Weihao Li, Junlin Han, **Jiyang Zheng**, Mehrtash Harandi, Lars Petersson
   Preprint 2022

AWARDS

- HSC Distinguished Achievers (2018) *NSW Education Standards Authority*
- Chancellor Outstanding Academic Achievement Award (2020) *The Australian National University*
- CSIRO Undergraduate Vacation Scholarship (2021) *CSIRO, DATA61*

TECHNICAL SKILLS

Programming

- Proficient in Python programming; Familiar with Java, SQL, C++, R, Haskell and Matlab. Profound experience in software development and data analysis. The top-1 achiever in senior year algorithm course at ANU.

Machine Learning/ Deep Learning

- Familiarize with many machine learning and deep learning algorithms with the ability to implement them in programming. High-level understanding of the logic behind ML/DL algorithms. Sensitive to new ideas.

Academic Writing

- Strong academic writing skills with full English proficiency. Ability to write academic paper using Latex.