Zijun Long

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Summary

My research primarily focuses on artificial intelligence (AI) for the development of novel multi-modal (text+image) learning techniques, with a particular emphasis on the research of large language models at the intersection of machine learning, computer vision, and natural language processing. My research track record is distinguished by 111 peer-reviewed full papers as first-author, published in prestigious conferences and journals, such as ECCV (h5-index 238, CORE A*), SIGIR (h5-index 90, CORE A*), ICRA (h5-index 119, CORE A*), ICASSP (h5-index 123). Significantly, I have shown a substantial increase in the number of citations, which has quadrupled compared to what I had in 2022. I am proficient in programming, including Python, C++. I possess extensive experience in large-scale data analysis and am proficient in numerous deep learning and data analysis frameworks, including scikit-learn, PyTorch, and Bayesian methods.

EDUCATION

University of Glasgow, Glasgow, United Kingdom — 2020 — Now
PhD in Computer Science, *Supervisor: Richard Mccreadie, Gerardo Aragon Camarasa* — Fully Funded

University of Glasgow, Glasgow, United Kingdom — 2019 — 2020
M.S.c in Data Science, *Average grade: A3* — Awarded with Distinction

South China University of Technology, GuangZhou, China — 2015 — 2019
B.S. in Software Engineering — First Honour Degree

ACADEMIC EMPLOYMENT EXPERIENCE

University of Glasgow — Glasgow, United Kingdom
MSc Project Supervisor — May 2023 — Oct 2023

- Supervised 20 MSc students and 8 of them achieve A grade for their projects.

University of Glasgow — Glasgow, United Kingdom
Tutor — Nov 2020 — Present

- Courses: Recommendation system, Text as Data, Introduction of Data Science, Programming, Machine Learning, etc.
- Received high commendation for my exceptional performance in the role.

University of Glasgow — Glasgow, United Kingdom
Marking Assistant — Nov 2020 — Present

- Marking the exams for many courses including Text as Data, Introduction of Data Science, Programming, Machine Learning, etc.
- Lecturer's assessment: Accomplished the task with exceptional proficiency, consistently maintaining high standards across all assignments.

PUBLICATIONS

Peer-reviewed Conference & Journal Publications

- **Zijun Long**, Lipeng Zhuang, George Killick, Richard McCreadie, Gerardo Aragon Camarasa, Paul Henderson. Understanding and Mitigating Human-Labelling Errors in Supervised Contrastive Learning, *The 18th European Conference on Computer Vision*, full paper, 2024. [link] (h5-index 238, Core A*)
- **Zijun Long**, Xuri Ge, Richard Mccreadie and Joemon Jose. CFIR: Fast and Effective Document-To-Image Retrieval for Large Corpora. *International ACM SIGIR Conference on Research and Development in Information Retrieval*, full paper, 2024. (h5-index 90, Core A*) [link]
- **Zijun Long**, George Killick, Richard McCreadie, Gerardo Aragon Camarasa. RoboLLM: Robotic Vision Tasks Grounded on Multimodal Large Language Models, *IEEE International Conference on Robotics and Automation*, main, 2024. (h5-index 119, Core A*) [link]
- **Zijun Long**, George Killick, Richard McCreadie, Gerardo Aragon Camarasa. MultiWay-Adapter: Adapting large-scale multimodal models for scalable image-text retrieval. *IEEE International Conference on Acoustics, Speech, and Signal Processing*, main, 2024. (h5-index 123) [link]
- **Zijun Long**, George Killick, Richard McCreadie, Gerardo Aragon Camarasa, Zaiqiao Meng. LaCViT: A Label-aware Contrastive Training Framework for Vision Transformers. *IEEE International Conference on Acoustics, Speech, and Signal Processing*, main, 2024. (h5-index 123) [link]

- **Zijun Long**, Lipeng Zhuang, George Killick, Richard McCreadie, Gerardo Aragon Camarasa, Zaiqiao Meng. CLCE: An Approach to Refining Cross-Entropy and Contrastive Learning for Optimized Learning Fusion, *The 27th European Conference on Artificial Intelligence*, full paper, 2024. [link] (h5-index 29, Core A)
- **Zijun Long**, Richard McCreadie, Muhammad Imran. CrisisViT: A Robust Vision Transformer for Crisis Image Classification. *20th International Conference on Information Systems for Crisis Response and Management*, main, 2023. (h5-index 21)[link]
- **Zijun Long**, Richard McCreadie. Is Multi-Modal Data Key for Crisis Content Categorization on Social Media? *19th International Conference on Information Systems for Crisis Response and Management*, main, 2022. (h5-index 21)[link]
- **Zijun Long**, Richard McCreadie. Automated Crisis Content Categorization for COVID-19 Tweet Streams. *18th International Conference on Information Systems for Crisis Response and Management*, main, 2021. (h5-index 21) [link]
- **Zijun Long**, Xiaohang Wang, Yingtao Jiang, Guofeng Cui, Li Zhang, Terrence Mak. Improving the Efficiency of Thermal Covert Channels in Multi-/many-core Systems. *Design, Automation and Test in Europe*, main, 2017. (h5-index 49) [link]

Papers Under Review

- Zixuan Yi*, **Zijun Long***, Iadh Ounis, Craig Macdonald, Richard Mccreadie. Large Multi-modal Encoders for Recommendation, *arXiv preprint arXiv:2310.20343*, 2023. [link]
  *:co-first author

Honors & Awards

2024 IEEE International Conference on Acoustics, Speech, and Signal Processing	Seoul, Korea
SPS Travel Grants	2024
18th International Conference on Information Systems for Crisis Response and Management	Blacksburg, Virginia USA
Best Student Paper Award	2021
University of Glasgow	Glasgow, UK
Full PhD scholarship	2020
South China University of Technology	Guangzhou, China
First Class Scholarship of the University	2018
Imagine Cup 2018 Microsoft Global Student Technology Competition	Guangzhou, China
Third Place	2018
National Innovation and Entrepreneurship Training Programme	Guangzhou, China
Excellent Result of Oral Defence (Nearly Top 5%)	2018
Social Practice of the University	Guangzhou, China
Outstanding Participant	2018

Professional Activities

Conference (Senior) Program Committee and Journal Review

- BMVC Proceeding Chair (h5-index 77, CORE A)   2024
- AAAI (h5-index 212, CORE A*)   2023 — 2024
- ISCRAM (h5-index 21)   2022 — 2024

External Reviewer

- ECCV (h5-index 238, CORE A*)   2022 — 2024