

## Zijun Long

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### Summary

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My research centers on AI, particularly in developing novel multi-modal (text+image) learning techniques and exploring large language models at the intersection of machine learning, computer vision, and natural language processing. I have authored 11 peer-reviewed full papers as the first author, published in top-tier conferences and journals such as ECCV (h5-index 238, CORE A\*), SIGIR (h5-index 103, CORE A\*), ICRA h5-index 122, CORE A\*), and ICASSP (h5-index 129). I am proficient in programming languages like Python and C++, with extensive experience in large-scale data analysis and deep learning frameworks, including scikit-learn, PyTorch, and Bayesian methods.

### EDUCATION

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University of Glasgow, Glasgow, United Kingdom 2020 — 2024

Thesis: Researching an Enhanced Multimodal Learning Framework for Improved Inter-Modal and Intra-Modal Alignment

PhD in Computer Science, Supervisor: Dr. Richard McCreddie, Dr. Gerardo Aragon Camarasa Fully Funded

University of Glasgow, Glasgow, United Kingdom 2019 — 2020

MSc in Data Science, Average grade: A3 (Top 5%) Awarded with Distinction

South China University of Technology, Guangzhou, China 2015 — 2019

BS in Software Engineering First Honour Degree

### TEACHING AND SUPERVISION

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School of Computing Science, University of Glasgow Glasgow, United Kingdom

MSc Project Supervisor May 2023 — Oct 2023

- Independently supervised 20 MSc students on AI-focused projects, comprising one-third of their total MSc credits, with 6 of them earning an A grade (Top 20%).

School of Computing Science, University of Glasgow Glasgow, United Kingdom

Tutor Nov 2020 — June 2024

- Assisted in teaching courses such as Recommendation Systems, Text as Data, Introduction to Data Science, Programming, and Machine Learning. Provided tutorials to enhance students' understanding of lecture content and support in solving experimental problems.

School of Computing Science, University of Glasgow Glasgow, United Kingdom

Marking Assistant Nov 2020 — June 2024

- Graded exams and coursework for five courses, including Text as Data, Introduction to Data Science, Programming, and Machine Learning.
- Acquired extensive experience in assessing students' work across various standards and formats, and in providing constructive feedback.

### PUBLICATIONS

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#### Peer-reviewed Conference & Journal Publications

- Zijun Long**, Lipeng Zhuang, George Killick, Richard McCreddie, Gerardo Aragon Camarasa, Paul Henderson. Understanding and Mitigating Human-Labeling 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 McCreddie 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 103, Core A\*) [link]
- Zijun Long**, George Killick, Richard McCreddie, 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 McCreddie, Gerardo Aragon Camarasa. MultiWay-Adapater: 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 McCreddie, 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 McCreddie, 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 36, Core A)
- **Zijun Long**, Richard McCreddie, 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 McCreddie. 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 McCreddie. 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 McCreddie. Large Multi-modal Encoders for Recommendation, *ACM Transactions on Recommender Systems (major revision)*, 2024. [link]  
\*:co-first author

### Awards & Fundings

University of Glasgow <b>RSC Travel Grants (£10000)</b>	Glasgow, UK 2024
IEEE Signal Processing Society <b>SPS Travel Grants (£500)</b>	UK 2024
18th International Conference on Information Systems for Crisis Response and Management <b>Best Student Paper Award</b>	Blacksburg, Virginia USA 2021
University of Glasgow <b>RSC Travel Grants (£4100)</b>	Glasgow, UK 2023
University of Glasgow <b>RSC Travel Grants (£1150)</b>	Glasgow, UK 2022
University of Glasgow <b>Full PhD scholarship (£15000)</b>	Glasgow, UK 2020
University of Glasgow <b>Awarded Distinction for MSc degree</b>	Glasgow, UK 2020
University of Sheffield <b>International Postgraduate Taught Scholarship (£2260)</b>	Sheffield, UK 2019
South China University of Technology <b>First Class Scholarship of the University</b>	Guangzhou, China 2018
Imagine Cup 2018 Microsoft Global Student Technology Competition <b>Third Place</b>	Guangzhou, China 2018
National Innovation and Entrepreneurship Training Program <b>Excellent Result of Oral Defence (Top 5%)</b>	Guangzhou, China 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