Zhongze LUO

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Education

The Chinese University of Hong Kong, Shenzhen *(Expected) 2025.09—2027.06*

M.Phil. of Computer and Information Engineering

Northeast Forestry University (**Project 211**) *2021.09—2025.06*

B.Eng of Communication Engineering *GPA: 88.08/100 Ranking: 14/73 (Top 20%)*

Research interests

Knowledge Graph, Multimodal Large Language Models, LLM reasoning and evaluation.

Internship

CUHKSZ T-Lab [link] *2024.07—2025.01*

As a visiting student, I joined the laboratory of the School of Science and Engineering (SSE) at the Chinese University of Hong Kong (Shenzhen) to study and conduct research in the direction of multimodal large models. I also carried out work in the direction of the evaluation of the chain of thought of large models, and constructed a multi-modal evaluation benchmark for physics problems.

BYD Company Limited [link] *2024.01—2024.06*

As a hardware intern, I learned to weld small capacitors, resistors and other components, including 0201MLCC, and MCU. I also learned hardware circuit knowledge, including DC-DC power supply, EMC protection, ADI power supply design, mastered the real vehicle measurement method, participated in the oscilloscope test of vehicle rear domain control circuit board, recorded steady state, shock, stall current, input waveform no-action voltage and action voltage.

Papers

- **Luo, Z.**, Wan, W., Zheng, Q., et al. (2025). KG2QA: Knowledge Graph-enhanced Retrieval-Augmented Generation for Communication Standards Question Answering. In Proceedings of the 22nd Pacific Rim International Conference on Artificial Intelligence (PRICAI). [link]
- Sun, J., & **Luo, Z.** (2025). ForPKG: A Framework for Constructing Forestry Policy Knowledge Graph and Application Analysis. In 2025 International Joint Conference on Neural Networks (IJCNN). [link]
- Sun, J., **Luo, Z.**, & Li, Y. (2025). A compliance checking framework based on retrieval augmented generation. In Proceedings of the 31st International Conference on Computational Linguistics (COLING). [link]
- Zheng, Q., **Luo, Z.**, Guo, M., Wang, X., Wu, R., Meng, Q., & Dong, G. (2025). HGO-YOLO: advancing anomaly behavior detection with hierarchical features and lightweight optimized detection. Journal of Real-Time Image Processing, 22(4), 1-15. [link]
- **Luo, Z.**, Jia, S., Niu, H., Zhao, Y., Zeng, X., & Dong, G. (2024). Elderly fall detection algorithm based on improved yolov5s. Information Technology and Control, 53(2), 601-618. [link]
- Sun, J., Dai, C., **Luo, Z.**, Chang, Y., & Li, Y. (2024). LawLuo: A Multi-Agent Collaborative Framework for Multi-Round Chinese Legal Consultation. arXiv preprint arXiv:2407.16252. [link]

Skills

Familiar with python programming, and the training process and model deployment of deep learning models.

Familiar with the use of Altium Designer and other PCB design software, also familiar with Linux operating systems.

IELTS Academic: 6.5(6) Listening 7 Reading 7.5 Writing 6 Speaking 6.

Honors

Outstanding Undergraduate Graduation Thesis of Northeast Forestry University (3%) *2025.06*

China College Student Computer Design Competition - Third Prize *2024.08*

National College Students Mathematical Contest in Modeling - Provincial First Prize *2022.11*

University scholarship - First Prize *2022.03*