Jiabin Luo

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Education

Peking University (PKU), Beijing, China   2025.9 – Present
Ph.D. student in Department of Software Microelectronics (CS/AI), expected June 2030

Northeastern University, Hebei, China   2021.9 – 2025.6
B.S. in Department of Mathematics and Statistics (Math/AI)

Internship

Zhipu AI Multimodal Algorithm Group, Beijing, China   2024.11 – 2025.1
Research Intern   Manager: Haibo Liu

Under the supervision of Dr. Haibo Liu, explored LLM RAG application in healthcare (MedRAG) and multimodal model construction (Text-Image) .

- Independently researched medical-related RAG methods and improved the existing CLIP (Text to Image) model to conform to the medical direction of graphic retrieval, so that the model effect reaches more than 90%.

Shanghai AI Lab NDS Group, Shanghai, China   2025.02 – 2025.05
Research Intern   Manager: Peng Sun

Under the supervision of Dr. Peng Sun, explored Reinforcement Learning system and how to design a reasonable system to upload balance .

- Independently reproduced the more popular RL systems nowadays, such as Verl, Openrlhf, Orz, Deepscaler.etc.

Paper List

Joint deep reinforcement learning strategy in MEC for smart internet of vehicles edge computing networks

- **Jiabin Luo**, Qinyu Song , Fusen Guo , Haoyuan Wu, Hafizan Mat Som, Saad Alahmari, Azadeh Noori Hoshyar
- **Sustainable Computing: Informatics and Systems(JCRQ1)**, 2025.

Coal Mine Safety Alert System: Refining BP Neural Network with Genetic Algorithm Optimization

- **Jiabin Luo**, Hanzhe Pan
- **International Conference On Intelligent Computing(ICIC)**, 2024.

Research on Image Recognition based on Reinforcement Learning

- **Jiabin Luo**, Rongzhen Luo
- **International Conference on Computer Vision, Image and Deep Learning(CVIDL)**, 2023.

Honors and Awards

National Encouragement scholarship, Ministry of Education in China.	2024
1st Prize, Award on the Chinese Mathematics Competitions(CMC)	2024
Meritorious Winner, Interdisciplinary Contest In Modeling.	2024
1st Prize, Award on the Chinese Mathematics Competitions(CMC)	2023