

# GUANGHAO JIN

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LinkedIn

https://letitbe12345.github.io/

GitHub

Google Scholar

## EXPERIENCE

Research Assistant

**Shandong University**

Jan. 2025 – present

Shandong, China

- Advisor: Prof. Guoyang Liu.
- Developed a knowledge-driven referring expression comprehension benchmark for multimodal large language models.
- Developed a large-scale clinical model for EEG-based neurological disorder detection.

Research Internship

**LMU Munich**

Apr. 2024 – Aug. 2024

Munich, Germany

- Advisor: Tanveer Hannan.
- Incorporating the temporal evolution features of objects into video large language models to enhance the model's fine-grained understanding capability.

## EDUCATION

M.Sc. Computer Science

**Ludwig Maximilian University of Munich (LMU)**

Oct. 2024 – Present

Munich, Germany

B.Sc. Computer Science

**Ludwig Maximilian University of Munich (LMU)**

Apr. 2021 – Oct. 2024

Munich, Germany

## RESEARCH PUBLICATIONS

- 1 **G. Jin**, J. Wu, T. Guo, Y. Niu, W. Zhou, and G. Liu, "KnowDR-REC: A benchmark for referring expression comprehension with real-world knowledge," *arXiv preprint*, vol. arXiv:2508.14080, 2025.
- 2 **G. Jin**, Y. Liang, Y. Ma, J. Wu, and G. Liu, "NeuroDx-LM: A clinical large-scale model for EEG-based neurological disorder detection," *arXiv preprint*, vol. arXiv:2508.08124, 2025.
- 3 L. Bai, R. Zhang, W. Zhou, L. Tian, **G. Jin**, and G. Liu, "Efficient convolution accelerator using number-theoretic transform for deep learning on FPGA," in *2025 IEEE 2nd International Conference on Deep Learning and Computer Vision (DLCV)*, 2025, pp. 1–5.
- 4 Z. Wang, Y. Hu, Q. Xin, **G. Jin**, Y. Zhao, W. Zhou, and G. Liu, "EEG-based seizure detection using dual-branch CNN-ViT network integrating phase and power spectrograms," *Brain Sciences*, vol. 15, no. 5, p. 509, 2025.

## SKILLS

- **Languages:** Chinese (native speaker), English (fluent), German (intermediate)
- **Coding:** Python, Matlab, Node.js, java
- **Framework:** Pytorch, deepspeed, LLaMA-Factory, VERL, vLLM, LangChain / LangGraph
- **Misc:** Docker, Conda, Shell Script, LaTeX, Git.