Lidang Jiang

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Algorithm Engineer, ¥10k-¥15k/month
From Xianning, Hubei, currently living in Haikou, Hainan
Home: https://lidang-jiang.github.io//

EDUCATION

Sichuan University, Materials and Chemical Engineering, *Master's*   2021.09 - 2024.07
- Second-class Academic Scholarship, Academic Year 2021 - 2022
- Second-class Academic Scholarship, Academic Year 2022 - 2023
- Second-class Academic Scholarship, Academic Year 2023 - 2024

Jinzhong University, Applied Chemistry, *Bachelor's*   2014.09 - 2018.07

Tongshan County No.1 High School, Tongshan County, Hubei, *High School*   2011.09 - 2014.07

SELF-EVALUATION

College entrance examination(502 points), undergraduate GPA (2.9/5, ranked 45/50). Scored 263 in the 2020 postgraduate entrance examination and 400 in the 2021 postgraduate entrance examination (8/120), with a score of 141 in Mathematics II (1/120). Graduate GPA is 3.5/4, ranking in the top 30%.

During my graduate studies, I focused primarily on the intersection of AI and lithium-ion batteries (LiBs). As the first author, I have published or submitted two papers in journals ranked Q1 by both the Chinese Academy of Sciences and the Journal Citation Reports (JCR). One of the papers is in *Energy* (IF=9), and the other is in *Applied Energy* (IF=11.2). Throughout these three years of my Master's studies, I developed the ability to independently conduct interdisciplinary research.

While working as a large model algorithm engineer, I learned and mastered various technologies, including word embedding models, RAG (Milvus), Agent, Langchain, fine-tuning, chain of thought, few-shot learning, and large model testing. In addition, I also became familiar with the API usage methods for large models developed by various companies, such as TeleChat (in-house), Tsinghua's ChatGLM, Alibaba's QWen, and OpenAI.

My current research interests include AI4Science, Agents, Generative AI, Deep Learning, LLMs, and MLsys.

PROFESSIONAL SKILLS AND COURSES

Algorithms: Machine Learning, Deep Learning, Generative AI (GenAI), RAG (Milvus), Agent, Pytorch, Langchain, Distributed Training, Fine-tuning, Bayesian Optimization

Skills: FastAPI, Streamlit, Attu, Git, Docker, Linux, Data Analysis, LaTeX

English: CET-4

Courses: Mathematical Methods, Numerical Analysis, Chemical Engineering Thermodynamics, Transport Phenomena, Stanford CS 231n, CS 224n

PAPERS

1: Jiang, Lidang, et al. "A Robust Adapted Flexible Parallel Neural Network Architecture for Early Prediction of Lithium Battery Lifespan." *Energy* 308 (2024): 132840.
- Video-like data, Bayesian optimization, dual-stream network, 3D CNN, InceptionBlock, learning outcomes, Feature Map

2: Jiang, Lidang, et al. "Generating Comprehensive Lithium Battery Charging Data with Generative AI." arXiv preprint arXiv:2404.07577 (2024).
- Video-like data, Bayesian optimization, generative model, learning outcomes, optimization algorithm, CVAE

PREVIOUS EXPERIENCE

China Telecom Digital Intelligence Technology Co., Ltd., LLM Algorithm Engineer   2024.07 - Present
- Third-party contract, large model testing, RAG, Agent, deployment

Wenjia Education, etc., Graduate Entrance Exam Subject Tutoring   2021.05 - 2021.12

Guangzhou Lizhi Education Technology Co., Ltd., Yousi Tutoring, etc., Math Tutor   2021.05 - 2021.12

Other (e.g., Unemployed, Preparing for Exams at Home, etc.)   2019.09 - 2021.05

Real Estate Consultant, Environmental Engineer, Hotel Receptionist, Game Booster   2018.07 - 2019.09