

# Lidang Jiang

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Algorithm Engineer, ¥10k-¥15k/month  
From Xianning, Hubei, currently living in Xianning, Hubei  
Member of the Public, Graduating Class of 2024



## EDUCATION

<b>Sichuan University</b> , Materials and Chemical Engineering, <i>Master's</i>	2021.09 - 2024.07
<ul style="list-style-type: none"><li>Second-class Academic Scholarship, Academic Year 2021 - 2022</li><li>Second-class Academic Scholarship, Academic Year 2022 - 2023</li><li>Second-class Academic Scholarship, Academic Year 2023 - 2024</li></ul>	
<b>Jinzhong University</b> , Applied Chemistry, <i>Bachelor's</i>	2014.09 - 2018.07
<b>Tongshan County No.1 High School</b> , Tongshan County, Hubei, <i>High School</i>	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 on the intersection of machine learning and lithium-ion batteries. At the algorithm level, I have mastered machine learning, deep learning, and some simple generative AI algorithms. In terms of engineering, I am proficient in using cloud computing platforms (such as Alibaba Cloud), Git, Docker, Linux, distributed training, etc. Additionally, I have conducted some experimental projects on silicon-carbon batteries, familiar with commonly used material characterization methods, and some common coin cell experiments.

During my master's program, I have authored or co-authored 3 academic papers as the first author. The first paper has been published in *Energies* (IF=3.2), and the second and third papers are currently under review in *Energy* (IF=9) and *Applied Energy* (IF=11.2) respectively. Over the three years of my master's program, I have developed the ability to independently conduct interdisciplinary scientific research. My current research interests include AI for Science, generative AI, deep learning, LLMs, and ML systems.

## PROFESSIONAL SKILLS AND COURSES

**Engineering and Algorithms:** Distributed Training, Git, Docker, Linux, Anaconda, Python, Pytorch, Data Analysis, LaTeX, Neural Networks, Bayesian Optimization, Generative AI  
**English:** College English Test (CET-4)  
**Courses:** Mathematical Methods, Numerical Analysis, Chemical Engineering Thermodynamics

## PAPERS

- 1: Jiang, Lidang, et al. "Predicting the Remaining Useful Life of Lithium-Ion Batteries Using 10 Random Data Points and a Flexible Parallel Neural Network." *Energies*, 2024, 17(7): 1695.
- Sparse data, lithium batteries
- 2: Jiang, Lidang, et al. "Flexible Parallel Neural Network Architecture Model for Early Prediction of Lithium Battery Life." arXiv preprint arXiv:2401.16102 (2024).
- Video-like data, Bayesian optimization, dual-stream network, 3D CNN, InceptionBlock, learning outcomes, Feature Map
- 3: 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

<b>Wenjia Education, etc.</b> , Graduate Entrance Exam Subject Tutoring	2021.05 - 2021.12
<b>Guangzhou Lizhi Education Technology Co., Ltd., Yousi Tutoring, etc.</b> , Math Tutor	2021.05 - 2021.12
<b>Other (e.g., Unemployed, Preparing for Exams at Home, etc.)</b>	2019.09 - 2021.05
<b>Real Estate Consultant, Environmental Engineer, Hotel Receptionist, Game Booster</b>	2018.07 - 2019.09