

# JIAJUN ZHU

junnian@zju.edu.cn · (+86) 173-009-89120 · homepage

## EDUCATION

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### Zhejiang University

(Expected) Sept. 2020 - Sept. 2024

B.S. in Mathematics

Rank: 3%

## RESEARCH

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### Digital Signal Processing, Georgia Tech University

Nov. 2022 - Sept. 2023

Research Internship

Advisor: Prof. Pan Li

- Benchmarking geometric deep learning explanation methods with the purpose of scientific discovery.
- Established three fundamental observations to enhance the utility of natural scientists.
- Conducted a theoretical and empirical comparison of methods to improve researchers' understanding.

### Artificial Intelligence Laboratory, Zhejiang University

Aug. 2022 - Oct. 2022

Research Internship

Advisor: Prof. Yang Yang

- Implemented five baseline methods and compared them with our method on different molecular datasets.
- Proposed our method's theoretical background and completed the paper's theoretical analysis.

### FlexLink Technology Co., Ltd. Hangzhou, China

Dec. 2021 - Feb. 2022

Research Assistant

Mentor: Dr. Qian Zheng

- Drew plots using python for statistics analysis. (Bland-Altman agreement, linear regression, etc.)
- Filed a utility patent application, *A Staging-Algorithm-Based Evaluation Method of EEG Signal Quality*.

## EXPERIENCE

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### 7th Finvolution Data Science Competition

Aug. 2022

Team Member

- Incorporated the message passing into the feature engineering and ranked 5% finally.
- Tuned hyperparameters with bayesian optimization and improved the model by 1%.

### Online Exchange Program of Zhejiang University

May. 2022 - Jun. 2022

Team Leader

- Conducted literature research for the development of MCMC methods and guided members to complete a literature report.
- Performed several toy experiments to compare the convergence rate and sample efficiency of different algorithms.

### Student Research Training Program of Zhejiang University

Jan. 2022 - Jun. 2022

Team Leader

Advisor: Prof. Renjun Xu

- Crawled 100k+ data of electronic density and band structure from Materials Project and Crystallography Open Database.
- Reproduced the baseline models: CGCNN (Xie et al., 2018) and MEGNet (Chen et al., 2018).

## MISCELLANEOUS

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- Programming Skills: Python - Proficient, C++/C - Competent programmer
- Languages: English - Fluent, Mandarin - Native speaker
- Activities: Runner-up of the campus debate competition, *the 8th Shenyuan Cup*