YANJUN ZHAO
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HomePage   Github   Reaearch: Data Mining, LLM

EDUCATION

Xi'an Jiaotong University   Xi'an, China
Master of Computer Science and Technology   Sep.2022-Jun.2025
- **National Scholarship** (rank: 2/205); Tencent Scholarship;
- Outstanding post-graduate

Xi'an Jiaotong University   Xi'an, China
Bachelor of Computer Science and Technology   Sep.2018-Jun.2022
- The 'Lu Shidi' Scholarship; School Scholarship
- Outstanding Undergraduate

RESEARCH EXPERIENCE

Damo Academy-Alibaba Group   Hangzhou, China
Research Intern   Feb.2023-2024
- Focus on research about data mining, including time series and spatio-temporal forecasting, supervised by Dr.Tian Zhou and Dr. Liang Sun. Recent works including GCformer, Sparse-VQ transformer below.

PUBLICATIONS

- **Y Zhao,** Z Ma, T Zhou, L Sun, M Ye, Y Qian, "GCformer: An Efficient Framework for Accurate and Scalable Long-Term Multivariate Time Series Forecasting" (CIKM 2023, Code)
- **Y Zhao**, T Zhou, C Chen, L Sun, Y Qian, R Jin , "Sparse-VQ Transformer: An FFN-Free Framework with Vector Quantization for Enhanced Time Series Forecasting" (arXiv, Code, under review)
- **Y Zhao**, S Dang, H Ye, G Dai, Y Qian, IW Tsang, "Second-Order Fine-Tuning without Pain for LLMs: A Hessian Informed Zeroth-Order Optimizer" (arXiv, Code, under review)
- C Chen, T Zhou, **Y Zhao**, H Liu, L Sun, R Jin, "SVQ: Sparse Vector Quantization for Spatiotemporal Forecasting" (arXiv, Code, under review)

COMPETITIONS

The 4th 'SEED' Jiangsu Big Data Development and Application Competition (4/473)   Sep.2023
- New Energy Track--forecast the power demand for the charging stations

GitLink Code Camp: Contributor for Deep Graph Library (DGL)   Jun.2022-Sep.2022
- Refactor several functions and commit several graph neural network examples.

The 8th National Mechanical Innovation and Design Competition (National Second Prize)   Sep.2021
- Designed and manufactured a **Household Robot**, which utilized navigation, speech recognition and vision algorithms together and realized voice calling, fetching functions and so on, facilitate home life.

The 13th National Social Practice and Science Contest on Energy Saving and Emission Reduction (National Third Prize)   Sep.2020
- Designed and manufactured an **Automatic Garbage Sorting Device**, which utilized image classification algorithm to control the mechanical device to realize automatic garbage classification. A utility model patent has been authorized.

The 19th China Post-Graduate Mathematical Contest in Modeling (National Third Prize)   Oct.2022
The 19th American Mathematical Contest in Modeling (Finalist,<3%)   May.2021

TECHNICAL SKILLS

Programming Languages: Python, C++
Package & Tools: Linux, Github, LATEX, PyTorch
Language: Mandarin, English