

# 邱翔飞

✉ xfqiu@stu.ecnu.edu.cn · ☎ (+86) 17821242021 · [in linkedin](#)

## 🎓 教育背景

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| 华东师范大学, 上海                      | 2023 – 至今   |
| 硕博连续生, 数据科学与工程学院, 师从 胡吉林 和 杨彬教授 |             |
| 海南大学, 海南, 海口                    | 2019 – 2023 |
| 学士, 软件工程, 师从 张清辰教授, 连续四年专业排名第一  |             |

## 📈 研究兴趣

我的研究兴趣主要集中在**时间序列分析**和**深度学习**领域。目前, 我的研究工作主要围绕时间序列基础模型和时间序列评测基准展开。除了纯学术研究之外, 我也致力于推动具有实际应用价值的研究工作。我的研究目标是促进智能系统的发展, 使其能够在金融、工业、环境等多个领域中高效处理海量且复杂的时间序列数据。

如需了解更多信息, 您可以查看我的谷歌学术和个人主页。

## 📄 论文发表

截止目前已录用或发表 13 篇 CCF A/Core A\* 论文, 其中以第一作者(含共同一作)身份发表 7 篇。一作论文 TFB 获得 VLDB 2024 最佳论文奖提名, DUET 荣登 KDD 2025 Paper Digest 最具影响力论文榜首。截止目前, 谷歌学术引用量为 662, H 指数为 12。

- *Rethinking Irregular Time Series Forecasting: A Simple yet Effective Baseline* **AAAI 2026**  
Xvyuan Liu\*, **Xiangfei Qiu\***, Xingjian Wu\*, Zhengyu Li, Chenjuan Guo, Jilin Hu#, Bin Yang (Oral)
- *An Encode-then-Decompose Approach to Unsupervised Time Series Anomaly Detection on Contaminated Training Data* **ICDE 2026**  
Buang Zhang, Tung Kieu, **Xiangfei Qiu**, Chenjuan Guo, Jilin Hu, Aoying Zhou, Christian S. Jensen, Bin Yang#
- *DBLoss: Decomposition-based Loss Function for Time Series Forecasting* **NeurIPS 2025**  
**Xiangfei Qiu**, Xingjian Wu, Hanyin Cheng, Xvyuan Liu, Chenjuan Guo, Jilin Hu#, Bin Yang
- *Enhancing Time Series Forecasting through Selective Representation Spaces: A Patch Perspective* **NeurIPS 2025**  
Xingjian Wu, **Xiangfei Qiu**, Hanyin Cheng, Zhengyu Li, Jilin Hu, Chenjuan Guo, Bin Yang# (Spotlight)
- *TAB: Unified Benchmarking of Time Series Anomaly Detection Methods* **PVLDB 2025**  
**Xiangfei Qiu**, Zhe Li, Wanghui Qiu, Shiyan Hu, Lekui Zhou, Xingjian Wu, Zhengyu Li, Chenjuan Guo, Aoying Zhou, Zhenli Sheng, Jilin Hu#, Christian S. Jensen, Bin Yang
- *K2VAE: A Koopman-Kalman Enhanced Variational AutoEncoder for Probabilistic Time Series Forecasting* **ICML 2025**  
Xingjian Wu\*, **Xiangfei Qiu\***, Hongfan Gao, Jilin Hu, Chenjuan Guo, Bin Yang# (Spotlight)

- *TSFM-Bench: Comprehensive and Unified Benchmarking of Foundation Models for Time Series Forecasting* **KDD 2025**  
 Zhe Li, **Xiangfei Qiu**, Peng Chen, Yihang Wang, Hanyin Cheng, Yang Shu, Jilin Hu, Chenjuan Guo, Aoying Zhou, Qingsong Wen, Christian S. Jensen, Bin Yang#
- *SSD-TS: Exploring the potential of linear state space models for diffusion models in time series imputation* **KDD 2025**  
 Hongfan Gao, Wangmeng Shen, **Xiangfei Qiu**, Ronghui Xu, Jilin Hu#, Bin Yang
- *DUET: Dual Clustering Enhanced Multivariate Time Series Forecasting* **KDD 2025**  
**Xiangfei Qiu**, Xingjian Wu, Yan Lin, Chenjuan Guo, Jilin Hu#, Bin Yang (**Paper Digest 最具影响力论文**)
- *EasyTime: Time Series Forecasting Made Easy* **ICDE 2025**  
**Xiangfei Qiu\***, Xiuwen Li\*, Ruiyang Pang\*, Zhicheng Pan\*, Xingjian Wu\*, Liu Yang\*, Jilin Hu, Yang Shu, Xuesong Lu, Chengcheng Yang, Chenjuan Guo, Aoying Zhou, Christian S. Jensen, Bin Yang
- *CATCH: Channel-Aware Multivariate Time Series Anomaly Detection via Frequency Patching* **ICLR 2025**  
 Xingjian Wu, **Xiangfei Qiu**, Zhengyu Li, Yihang Wang, Jilin Hu, Chenjuan Guo, Hui Xiong, Bin Yang#
- *TFB: Towards Comprehensive and Fair Benchmarking of Time Series Forecasting Methods* **VLDB 2024**  
**Xiangfei Qiu**, Jilin Hu#, Lekui Zhou, Xingjian Wu, Junyang Du, Buang Zhang, Chenjuan Guo, Aoying Zhou, Christian S. Jensen, Zhenli Sheng, Bin Yang (**Best Research Paper Award Nomination**)
- *AutoCTS++: zero-shot joint neural architecture and hyperparameter search for correlated time series forecasting* **VLDBJ 2024**  
 Xinle Wu, Xingjian Wu, Bin Yang#, Lekui Zhou, Chenjuan Guo, **Xiangfei Qiu**, Jilin Hu, Zhenli Sheng, Christian S. Jensen
- *DAG: A Dual Causal Network for Time Series Forecasting with Exogenous Variables* **arXiv 2025**  
**Xiangfei Qiu**, Yuhang Zhu, Zhengyu Li, Hanyin Cheng, Xingjian Wu, Chenjuan Guo, Bin Yang, Jilin Hu#
- *Multi-Scale Spatial-Temporal Hypergraph Network with Lead-Lag Structures for Stock Time Series Forecasting* **arXiv 2025**  
**Xiangfei Qiu**, Liu Yang, Hanyin Cheng, Xingjian Wu, Rongjia Wu, Zhigang Zhang, Ding Tu, Chenjuan Guo, Bin Yang, Christian S. Jensen, Jilin Hu#
- *ASTGI: Adaptive Spatio-Temporal Graph Interactions for Irregular Multivariate Time Series Forecasting* **arXiv 2025**  
 Xvyuan Liu, **Xiangfei Qiu**, Hanyin Cheng, Xingjian Wu, Chenjuan Guo, Bin Yang, Jilin Hu#
- *A Comprehensive Survey of Deep Learning for Multivariate Time Series Forecasting: A Channel Strategy Perspective* **arXiv 2025**  
**Xiangfei Qiu**, Hanyin Cheng, Xingjian Wu, Jilin Hu, Chenjuan Guo
- *Unlocking the Power of Mixture-of-Experts for Task-Aware Time Series Analytics* **arXiv 2025**  
 Xingjian Wu, Zhengyu Li, Hanyin Cheng, **Xiangfei Qiu**, Jilin Hu, Chenjuan Guo, Bin Yang#
- *MultiRC: Joint Learning for Time Series Anomaly Prediction and Detection with Multi-scale Reconstructive Contrast* **arXiv 2024**  
 Shiyan Hu, Kai Zhao, **Xiangfei Qiu**, Yang Shu, Jilin Hu, Bin Yang, Chenjuan Guo#

## ⚙️ 项目 & 应用

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- *TFB: Time Series Forecasting Benchmark* **1.6k Stars, Project Leader**
- *OpenTS: A comprehensive and fair benchmarking of time series analytics* **Project Leader**
- *EasyTime: Time Series Forecasting Made Easy* **First Author**

## 💡 学术服务

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学术审稿:

- International World Wide Web Conference (WWW), (industry track) 2026.
- AAAI Conference on Artificial Intelligence (AAAI) 2026.
- European Conference on Artificial Intelligence (ECAI), (Main Track) 2025.
- ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), (Main & ADS & Benchmark Track) 2025, 2026.
- International Joint Conference on Artificial Intelligence (IJCAI), (Main & Survey Track) 2025.
- International Conference on Learning Representations (ICLR) 2025, 2026.
- External Reviewer, International Conference on Database Systems for Advanced Applications (DASFAA) 2025.
- External Reviewer, International Conference on Information and Knowledge Management (CIKM) 2024.

课程助教:

- Teaching Assistant, Introduction to Data Science, Fall 2024, Prof. Jilin Hu

## ♡ 荣誉奖励

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- 入选中国科协青年科技人才培育工程博士生专项 **2025**
- *SIGKDD 2025* 杰出程序委员会委员 **2025**
- *CCF* 优秀大学生学术秀 **硕士组冠军** **2025**
- 国家奖学金 \*4 **2021, 2022, 2024, 2025**
- *VLDB* 最佳研究论文奖提名 **第一作者** **2024**
- 团体程序设计天梯赛 **国家三等奖** **2022**
- 中国信息安全大赛 **国家三等奖** **2021**