Xiangfei Qiu

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🎓 Education

East China Normal University (ECNU), Shanghai, China   Aug. 2023 – Present
Master student in School of Data Science and Engineering, advised by Prof. Jilin Hu and Prof. Bin Yang

Hainan University (HNU), Haikou, China   Aug. 2019 – July 2023
B.S. in Software Engineering, GPA: 3.96/4.0, Rank: 1/198, advised by Prof. Qingchen Zhang

📈 Research Interests

My research interests cover **Time Series Analysis** and **Deep Learning**. I am currently working on foundation time series models, and time series benchmarking. In addition to pure research, I also dedicate myself to promoting research on valuable real-world applications. My research aims to contribute to the advancement of intelligent systems capable of handling massive and complicated temporal data across domains, including finance, industry, and environment.

📄 Selected Publications and Preprints

- *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*   **SIGKDD 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*   **SIGKDD 2025**

  Hongfan Gao, Wangmeng Shen, **Xiangfei Qiu**, Ronghui Xu, Jilin Hu#, Bin Yang

- *DUET: Dual Clustering Enhanced Multivariate Time Series Forecasting*   **SIGKDD 2025**

  Xiangfei Qiu, Xingjian Wu, Yan Lin, Chenjuan Guo, Jilin Hu#, Bin Yang

- *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

- *Rethinking Irregular Time Series Forecasting: A Simple yet Effective Baseline* **arXiv 2025**

  Xvyuan Liu*, **Xiangfei Qiu***, Xingjian Wu, Zhengyu Li, Chenjuan Guo, Jilin Hu#, Bin Yang

- *A Comprehensive Survey of Deep Learning for Multivariate Time Series Forecasting:* **arXiv 2025**
  A Channel Strategy Perspective

  Xiangfei Qiu, Hanyin Cheng, Xingjian Wu, Jilin Hu, Chenjuan Guo

- *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#

⚙ APPLICATIONS AND PROJECTS

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

👤 SERVICES AND EXPERIENCES

Conference PC member:

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

Teaching Experiences:

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

♡ SELECTED AWARDS

- *First place in Master Group of CCF Academic Show* **2025**
- *National Scholarship * 3 times* **2021, 2022, 2024**
- *VLDB Best Research Paper Award Nomination (First author)* **2024**
- *GroupProgramming Ladder Tournament (Team leader, Third Prize in the National Competition)* **2022**
- *National College Student Information Security Contest (Third Prize in the National Competition)* **2021**