

XINGJIAN WU (吴行健)

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🎓 EDUCATION

East China Normal University (ECNU), Shanghai, China Aug. 2023 – Present

PHD student in School of Data Science and Engineering, advised by Prof. [Bin Yang](#)

Shanghai University (SHU), Shanghai, China Aug. 2019 – July 2023

B.S. in Computer Science.

High School Affiliated to Fudan University, Shanghai, China Aug. 2016 – July. 2019

📈 RESEARCH INTERESTS

My research interests cover **Time Series Analysis**, **Foundation Models**, **AutoML**, and **Agentic Systems**. I am currently working on **time series foundation models** and **self-evolved multi-agent systems**. 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 **Agentic Temporal Intelligence** capable of handling massive and complicated temporal data across domains, and making accurate reasoning and decisions.

📄 SELECTED PUBLICATIONS AND PREPRINTS

- *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)**

- *K^2 VAE: 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)**

- *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#

- *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)**

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

SIGKDD 2025

Xiangfei Qiu, **Xingjian Wu**, Yan Lin, Chenjuan Guo, Jilin Hu#, Bin Yang **(KDD25 Most Influential Paper)**

- *TFB: Towards Comprehensive and Fair Benchmarking of Time Series Forecasting Methods* **PVLDB 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)

- *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

- *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

- *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

- *Fully Automated Correlated Time Series Forecasting in Minutes* **PVLDB 2025**

Xinle Wu, **Xingjian Wu**, Dalin Zhang, Miao Zhang, Chenjuan Guo, Bin Yang#, Christian S. Jensen

- *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, Yuhua Zhu, Zhengyu Li, Hanyin Cheng, **Xingjian Wu**, Chenjuan Guo, Bin Yang, Jilin Hu#

- *FLAME: Flow Enhanced Legendre Memory Models for General Time Series Forecasting* **arXiv 2025**

Xingjian Wu, Hanyin Cheng, Xiangfei Qiu, Zhengyu Li, Jilin Hu, Chenjuan Guo, Bin Yang#

- *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

- *Aurora: Towards Universal Generative Multimodal Time Series Forecasting* **arXiv 2025**

Xingjian Wu, Jianxin Jin, Wanghui Qiu, Peng Chen, Yang Shu, Bin Yang, 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#

⚙️ APPLICATIONS AND PROJECTS

- *TFB*: Time Series Forecasting Benchmark Maintainer
- *AutoCTS Series*: AutoML for time series analytics Maintainer
- *EasyTime*: Time Series Forecasting Made Easy Maintainer

💡 SERVICES AND EXPERIENCES

Conference PC member:

- AAAI Conference on Artificial Intelligence (AAAI) 2026.
- International Joint Conference on Artificial Intelligence (IJCAI), (Main & Survey Track) 2025, 2026.
- International Conference on Learning Representations (ICLR) 2025, 2026.

♡ SELECTED AWARDS

- *National Scholarship* 2024
- *VLDB Best Research Paper Award Nomination* 2024
- *Outstanding Graduate of Shanghai University* 2023
- *Ministry of Education-Huawei, Future Star Scholarship* 2023
- *ASC STUDENT SUPERCOMPUTER CHALLENGE (International Second Prize)* 2022