

YONG LIU

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Homepage: <https://wenweithu.github.io/>

Google Scholar (Citations 4k+) \diamond GitHub (Stars 10k+) \diamond ORCID

EDUCATION

Ph.D. in Software Engineering

School of Software, Tsinghua University

Advisor: [Prof. Mingsheng Long](#)

Aug. 2021 – Present

Beijing, China

Bachelor in Software Engineering, Tsinghua University

School of Software, Tsinghua University

GPA: 3.63/4.0 Rank: 2/84

Aug. 2017 – July 2021

Beijing, China

Bachelor in Economics, Tsinghua University (*Second Degree*)

School of Economics and Management, Tsinghua University

Aug. 2018 – July 2021

Beijing, China

RESEARCH INTERESTS

My research interests cover **Deep Learning** and **Time Series Analysis**. I am currently working on time series foundation models and MLSystems. In addition to pure research, I dedicate myself to promoting research on 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, healthcare, industry, and environment.

SELECTED PUBLICATIONS

Sundial: A Family of Highly Capable Time Series Foundation Models

ICML 2025

Yong Liu*, Guo Qin*, Zhiyuan Shi, Zhi Chen, Caiyin Yang,
Xiangdong Huang, Jianmin Wang, Mingsheng Long#

Oral Paper

Timer-XL: Long-Context Transformers for Unified Time Series Forecasting

ICLR 2025

Yong Liu*, Guo Qin*, Xiangdong Huang, Jianmin Wang, Mingsheng Long#

Timer: Generative Pre-trained Transformers Are Large Time Series Models

ICML 2024

Yong Liu*, Haoran Zhang*, Chenyu Li*, Xiangdong Huang, Jianmin Wang, Mingsheng Long#
– *Built-in Large Time-Series Model in Apache IoTDB*

iTransformer: Inverted Transformers Are Effective for Time Series Forecasting

ICLR 2024

Yong Liu*, Tengge Hu*, Haoran Zhang*, Haixu Wu, Shiyu Wang, Lintao Ma, Mingsheng Long#
– *PaperDigest Most Influential Paper, Outstanding Projects of CCF Fund*

Spotlight Paper

AutoTimes: Autoregressive Time Series Forecasters via Large Language Models

NeurIPS 2024

Yong Liu*, Guo Qin*, Xiangdong Huang, Jianmin Wang, Mingsheng Long#

TimesNet: Temporal 2D-Variation Modeling for General Time Series Analysis

ICLR 2023

Haiwu Wu*, Tengge Hu*, **Yong Liu***, Hang Zhou, Jianmin Wang, Mingsheng Long#
– *PaperDigest Most Influential Paper*

Koopa: Learning Non-stationary Time Series Dynamics with Koopman Predictors

NeurIPS 2023

Yong Liu*, Chenyu Li*, Jianmin Wang, Mingsheng Long#

Non-stationary Transformers: Exploring the Stationarity in Time Series Forecasting

NeurIPS 2022

Yong Liu*, Haiwu Wu*, Jianmin Wang, Mingsheng Long#

Ranking and Tuning Pre-trained Models: A New Paradigm for Exploiting Model Hubs

JMLR 2022

Kaichao You*, **Yong Liu***, Ziyang Zhang, Jianmin Wang, Michael I. Jordan, Mingsheng Long#

LogME: Practical Assessment of Pre-trained Models for Transfer Learning

ICML 2021

Kaichao You*, **Yong Liu***, Jianmin Wang, Mingsheng Long#

APPLICATIONS AND PROJECTS

Algorithms and Model Package

- *Large-Time-Series-Model*, *OpenLTM*: Codebase of Large Time-Series Models *Maintainer*
- *Time-Series-Library*: Deep Models for Time Series Analysis (**Stars 9k+**) *Co-Author*
- *Transfer-Learning-Library*: Algorithms for Transfer Learning (**Stars 3k+**) *Committer*

Open-Source Models for Time Series

- *Timer*, *Sundial*: Time Series Foundation Models (**HuggingFace**) *Maintainer*
- *iTransformer*: Multidimensional Time Series Forecaster (**Stars 1.6k+**) *Maintainer*
- *AutoTimes*: Large Language Models for Time Series Forecasting *Maintainer*
- *NSFormer*, *Koopa*: Non-stationary Time Series Forecasting *Maintainer*

Systems and Applications

- *Apache IoTDB - AINode*: Native AI Analysis in Database *Project Leader*
- *iTransformer*: Green Computing of Ant Group (**Ant Group Deployment**) *First Author*

INVITED TALKS

- **Foundation Models and OLAP of Time Series** at [Apache IoTDB](#). (**Slides**) *Apr 29, 2025*
- **Large Models for Native Database Analysis** at [TPCTC 2024](#). (**Slides**) *Aug 30, 2024*
- **Exploring Large Models for Time Series** at [IoA, CAS](#). (**Slides**) *June 20, 2024*
- **Deep Learning for Time Series Applications** at [DoA, THU](#). (**Slides**) *May 25, 2024*

SERVICES AND EXPERIENCES

Reviewer & PC Member

- International Conference on Learning Representations ([ICLR](#)) *2024-2025*
- International Conference on Machine Learning ([ICML](#)) *2022-2025*
- Conference on Neural Information Processing Systems ([NeurIPS](#)) *2023-2025*

Teaching Experiences

- TA, Database System of [Prof. Jianmin Wang](#) *Spring 2024*
- TA, Machine Learning of [Prof. Mingsheng Long](#) *Fall 2021-2023*
- TA, Deep Learning of [Prof. Mingsheng Long](#) *Fall 2021-2022*
- TA, Introduction to Artificial Intelligence of [Prof. Mingsheng Long](#) *Spring 2021-2022*

SELECTED AWARDS

- Outstanding Papers of Beijing *2021*
- Outstanding Graduates of Beijing *2021*
- Excellent Graduates, Tsinghua University *2021*
- Future Researcher Scholarship of Tsinghua *2021*
- Tang Lixin Scholarship, Tsinghua University *2020*
- Jiang Nanxiang Scholarship, Tsinghua University *2019*
- Huawei Scholarship, Tsinghua University *2018*