

YONG LIU

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

[Google Scholar \(Citation 3k+\)](#) \diamond [GitHub](#) \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, domain-specific time series models, and multi-modal models. 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, healthcare, industry, and environment.

SELECTED PUBLICATIONS AND PREPRINTS

Sundial: A Family of Highly Capable Time Series Foundation Models

arXiv 2025

Yong Liu*, Guo Qin*, Zhiyuan Shi, Zhi Chen, Caiyin Yang, Xiangdong Huang,

(Post)

Jianmin Wang, Mingsheng Long# ([Trillion-Scale Pre-trained Generative Foundation Model](#))

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#

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#

– Deployed in Ant Group (Outstanding Projects of CCF Fund) ([ICLR Spotlight, Cite 700+](#))

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# ([Cite 1100+](#))

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

NeurIPS 2023

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

(Cite 100+)

Non-stationary Transformers: Exploring the Stationarity in Time Series Forecasting **NeurIPS 2022**

Yong Liu*, Haiwu Wu*, Jianmin Wang, Mingsheng Long# ([Github Stars 500+, Cite 500+](#))

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#

(Cite 200+)

APPLICATIONS AND PROJECTS

Algorithm Development and Package

- *Time-Series-Library*: Deep Models for Time Series Analysis ([GitHub Stars 8k+](#)) *Co-Author*
- *OpenLTM*: Open Codebase for Developing Large Time-Series Models *Maintainer*
- *Transfer-Learning-Library*: Algorithms for Transfer Learning ([GitHub Stars 3k+](#)) *Committer*

Open-Source Models for Time Series

- *iTransformer*: Multidimensional Time Series Forecaster ([GitHub Stars 1.5k+](#)) *Maintainer*
- *Timer*, *Timer-XL*: Pre-Trained Large Time-Series Models ([GitHub Stars 500+](#)) *Maintainer*
- *AutoTimes*: Large Language Models for Time Series Forecasting *Maintainer*
- *Non-stationary Transformers*: Transformers for Non-Stationary Forecasting *Maintainer*

Systems and Applications

- *Apache IoTDB - AINode*: [Native AI Analysis in Time Series Database](#) *Project Leader*
- *iTransformer*: Green Computing of Ant Group [[Certificate 1](#)] [[Certificate 2](#)] *First Author*

INVITED TALKS

- **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*
- **Large Models for Native Database Analysis** at TPCTC 2024. [[PDF](#)] *Aug 30, 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 [[Certificate](#)] *2021*
- Outstanding Graduates of Beijing [[Certificate](#)] *2021*
- Excellent Graduates of Tsinghua [[Certificate](#)] *2021*
- Future Scholar Scholarship, Tsinghua University *2021*
- Boeing Scholarship, Tsinghua University *2020*
- Tang Lixin Scholarship, Tsinghua University *2020*
- Jiang Nanxiang Scholarship, Tsinghua University *2019*
- Huawei Scholarship, Tsinghua University *2018*