

# YONG LIU

Email: [liuyong21@mails.tsinghua.edu.cn](mailto:liuyong21@mails.tsinghua.edu.cn)

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 MLSys. 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#

– Deployed in Apache IoTDB (*Built-in Large Time-Series Model*)

*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*)

*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#

*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

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### Algorithm Development and Package

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

### Open-Source Models for Time Series

- *iTransformer*: Multidimensional Time Series Forecaster (**Stars 1.6k+**) *Maintainer*
- *Timer*, *Sundial*: Time Series Foundation Models (**HuggingFace**) *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 Database *Project Leader*
- *iTransformer*: Green Computing of Ant Group (**Deployment**) *First Author*

## INVITED TALKS

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- **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

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### 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

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