

YONG LIU

Phone: (+86) 130-0195-9866 ◊ Email: liuyong21@mails.tsinghua.edu.cn

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

Google Scholar ◊ GitHub ◊ ORCID

EDUCATION

Ph.D. in Software Engineering School of Software, Tsinghua University Advisor: Prof. Mingsheng Long	<i>Aug. 2021 – Present</i> Beijing, China
Bachelor in Software Engineering, Tsinghua University School of Software, Tsinghua University GPA: 3.63/4.0 Rank: 2/84 CET-4: 610; CET-6: 620	<i>Aug. 2017 – July 2021</i> Beijing, China
Bachelor in Economics, Tsinghua University (<i>Second Degree</i>) School of Economics and Management, Tsinghua University	<i>Aug. 2018 – July 2021</i> Beijing, China

RESEARCH INTERESTS

My research interests cover **Time Series Analysis** and **Transfer Learning**. I am currently working on foundation time series models, large time series models, and multi-modal time series models. The pursuit of my research is to implement a deep learning methodology in valuable real-world applications.

PUBLICATIONS AND PREPRINTS

<i>Timer: Generative Pre-trained Transformers Are Large Time Series Models</i>	<i>ICML 2024</i>
Yong Liu* , Haoran Zhang*, Chenyu Li*, Xiangdong Huang, Jianmin Wang, Mingsheng Long#	
<i>Deep Time Series Models: A Comprehensive Survey and Benchmark</i>	<i>arXiv preprint 2024</i>
Yuxuan Wang*, Haixu Wu*, Jiaxiang Dong, Yong Liu , Mingsheng Long, Jianmin Wang#	
<i>AutoTimes: Autoregressive Time Series Forecasters via Large Language Models</i>	<i>arXiv preprint 2024</i>
Yong Liu* , Guo Qin*, Xiangdong Huang, Jianmin Wang, Mingsheng Long#	
<i>Deep Time Series Models: A Comprehensive Survey and Benchmark</i>	<i>arXiv preprint 2024</i>
Yuxuan Wang*, Haixu Wu*, Jiaxiang Dong, Yong Liu , Mingsheng Long, Jianmin Wang#	
<i>Koopa: Learning Non-stationary Time Series Dynamics with Koopman Predictors</i>	<i>NeurIPS 2023.</i>
Yong Liu* , Chenyu Li*, Jianmin Wang, Mingsheng Long#	
<i>TimesNet: Temporal 2D-Variation Modeling for General Time Series Analysis</i>	<i>ICLR 2023</i>
Haiwu Wu*, Tengge Hu*, Yong Liu* , Hang Zhou, Jianmin Wang, Mingsheng Long#	
<i>Non-stationary Transformers: Exploring the Stationarity in Time Series Forecasting</i>	<i>NeurIPS 2022</i>
Yong Liu* , Haiwu Wu*, Jianmin Wang, Mingsheng Long#	
<i>Ranking and Tuning Pre-trained Models: A New Paradigm for Exploiting Model Hubs</i>	<i>JMLR 2022</i>
Kaichao You*, Yong Liu* , Ziyang Zhang, Jianmin Wang, Michael I. Jordan, Mingsheng Long#	
<i>LogME: Practical Assessment of Pre-trained Models for Transfer Learning</i>	<i>ICML 2021</i>
Kaichao You*, Yong Liu* , Jianmin Wang, Mingsheng Long#	

APPLICATIONS AND PROJECTS

Algorithm Library

- *Time-Series-Library*: Deep Models for Time Series Analysis *Committer*
- *Transfer-Learning-Library*: Algorithms for Transfer Learning *Committer*

Deep Models for Time Series

- *iTransformer*: Foundation Multivariate Time Series Model *Maintainer*
- *Timer*: Datasets, Checkpoints, Code for Developing Large Time Series Model *Maintainer*
- *Non-stationary Transformers*: Transformers for Non-stationary Forecasting *Maintainer*

Systems

- *Apache IoTDB - AINode*: Native Machine Learning Engine in Time Series Database *Designer*
- *Huawei*: Resource Allocation of AIOps *Alg. Instructor*
- *Ant Group*: Green Computing of Data Center *Alg. Developer*

SERVICES AND EXPERIENCES

Academic Services

- Conference Reviewer, International Conference on Learning Representations *2024*
- Conference Reviewer, International Conference on Machine Learning *2022-2024*
- Conference Reviewer, International Conference on Machine Learning *2023*
- Conference Reviewer, International Conference on Very Large Databases *2023*
- Conference Reviewer, Conference on Neural Information Processing Systems *2023-2024*

Teaching Experiences

- Teaching Assistant, Database System *Spring 2024*
- Teaching Assistant, Machine Learning *Fall 2023*
- Teaching Assistant, Introduction to Artificial Intelligence *Spring 2023*
- Teaching Assistant, Deep Learning *Fall 2022*
- Teaching Assistant, Introduction to Artificial Intelligence *Spring 2022*
- Teaching Assistant, Machine Learning *Fall 2021*
- Teaching Assistant, Introduction to Artificial Intelligence *Spring 2021*

HONORS AND AWARDS

- Shenzhen Stock Exchange Scholarship (**Top 1%**) *2023*
- Outstanding Papers of Beijing (**Top 1%**) *2021*
- Outstanding Graduates of Beijing (**Top 1%**) *2021*
- Excellent Graduates of Tsinghua (**Top 1%**) *2021*
- Future Scholar Scholarship, Tsinghua University (**Top 1%**) *2021*
- Boeing Scholarship, Tsinghua University (**Top 1%**) *2020*
- Tang Lixin Scholarship, Tsinghua University (**Top 1%**) *2020*
- Jiang Nanxiang Scholarship, Tsinghua University (**Top 1%**) *2019*
- Huawei Scholarship, Tsinghua University (**Top 1%**) *2018*