

YONGDING TAO

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RESEARCH INTERESTS

My current research interests are mainly focused on RL Post-training [1][8], foundation model architecture [3][4], and AI for Software Engineering (AI4SE) [5][7].

EDUCATION

Peking University

Sep 2025 – Present

Ph.D. Student in Computer Science, supervised by Prof. [Ge Li](#)

University of Electronic Science and Technology of China

Sep 2021 – June 2025

B.Sc. in Computer Science and Math(*Dual Degree*).

GPA: 3.9/4.0. Rank: 1/23

PUBLICATIONS

[*: Equal Contribution; †: Corresponding Author]

- [1] [Detecting Data Contamination from Reinforcement Learning Post-training for Large Language Models](#)
[Yongding Tao](#), Tian Wang, Yihong Dong, Huanyu Liu, Kechi Zhang, Xiaolong Hu, Ge Li[†]
ICLR 2026.
- [2] [TimeDiff: Leveraging Differential Domain Representations for Long Time Series Forecasting](#)
[Yongding Tao](#)^{*}, Xiaohang Zeng^{*}, Qinxu Ding, Yihong Dong, Da Peng, Peng Di, Puzhuo Liu[†], Wei Ke[†]
ICASSP 2026 .
(Work done during internship at Ant Group)
- [3] [FAN: Fourier Analysis Networks](#)
Yihong Dong^{*}, Ge Li^{*†}, [Yongding Tao](#), Xue Jiang, Kechi Zhang, Jia Li, Jing Su, Jun Zhang, Jingjing Xu
NeurIPS 2025.
- [4] [FANformer: Improving Large Language Models Through Effective Periodicity Modeling](#)
Yihong Dong, Ge Li[†], Xue Jiang, [Yongding Tao](#), Kechi Zhang, Hao Zhu, Huanyu Liu, Jiazheng Ding, Jia Li, Jinliang Deng, Hong Mei
NeurIPS 2025.
- [5] [ROCODE: Integrating Backtracking Mechanism and Program Analysis in Large Language Models for Code Generation](#)
Xue Jiang, Yihong Dong, [Yongding Tao](#), Huanyu Liu, Zhi Jin, Wenpin Jiao, Ge Li[†]
ICSE 2025.
- [6] [A Novel Window-Interaction Module Based on W-MSA](#)
Ruo Chen Cui, [Yongding Tao](#), Mingjun Ni[†]

Tiny Paper at ICLR 2024.

[7] **CodeRL+: Improving Code Generation via Reinforcement with Execution Semantics Alignment**

Xue Jiang, Yihong Dong, Mengyang Liu, Hongyi Deng, Tian Wang, Yongding Tao, Rongyu Cao, Binhua Li, Zhi Jin, Wenpin Jiao, Fei Huang, Yongbin Li, Ge Li[†]

Preprint (arXiv:2510.18471).

[8] **RL-PLUS: Countering Capability Boundary Collapse of LLMs in Reinforcement Learning with Hybrid-policy Optimization**

Yihong Dong, Xue Jiang, Yongding Tao, Huanyu Liu, Kechi Zhang, Lili Mou, Rongyu Cao, Yingwei Ma, Jue Chen, Binhua Li, Zhi Jin, Fei Huang, Yongbin Li, Ge Li[†]

Preprint (arXiv:2508.00222).

RESEARCH & INDUSTRY EXPERIENCE

Ant Group

Nov 2024 – May 2025

Research Intern.

Topics: Time Series Modeling, Time Series Forecasting [2].

AWARDS & HONORS

- Outstanding Graduate of Sichuan Province *2025*
- Xiaomi Scholarship *2022, 2024*
- Suzhou Industrial Park Scholarship *2023*