YONGDING TAO

☎ (+86) 185 8201 1851 · ✉ ydtao25@stu.pku.edu.cn · 🔗 yongding-tao.github.io

RESEARCH INTERESTS

My current research interests are mainly focused on RL Post-training [1][2], foundation model architecture [4][5], and AI for Software Engineering (AI4SE) [6].

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†
Preprint (arXiv:2510.09259).

[2] **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).

[3] **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†
Under Review.

[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] **FAN: Fourier Analysis Networks**
Yihong Dong[*], Ge Li[*†], **Yongding Tao**, Xue Jiang, Kechi Zhang, Jia Li, Jing Su, Jun Zhang, Jingjing Xu
NeurIPS 2025.

[6] **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.

[7] [A Novel Window-Interaction Module Based on W-MSA](#)
Ruochen Cui, **Yongding Tao**, Mingjun Ni[†]
Tiny Paper at ICLR 2024.

RESEARCH & INDUSTRY EXPERIENCE

Ant Group   *Nov 2024 – May 2025*
Research Intern.
Topics: Time Series Modeling, Time Series Forecasting [3].

AWARDS & HONORS

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