Yuxuan TONG

E-Mail: tongyuxuan361@gmail.com | Homepage: tongyx361.github.io

EDUCATION

Department of Computer Science and Technology (DCST), Tsinghua University (THU) 2021.09 - 2025.07 (Expected)

Bachelor's degree in progress

GPA: 3.7/4.0

PUBLICATIONS

DAPO: An Open-Source LLM Reinforcement Learning System at Scale
Preprint, under review

Qiying Yu*, Zheng Zhang*, **Yuxuan Tong***†, Guangming Sheng*†, ..., Yonghui Wu, Mingxuan Wang

(†) denotes infrastructure lead

Demystifying Long Chain-of-Thought Reasoning in LLMs
Accepted by ICML 2025; Awarded as **Best Paper** *by ICLR 2025 FM-Wild Workshop*

Edward Yeo*, **Yuxuan Tong***, Xinyao Niu, Graham Neubig, Xiang Yue

DART-Math: Difficulty-Aware Rejection Tuning for Mathematical Problem-Solving
Accepted by NeurIPS 2024

Yuxuan Tong, Xiwen Zhang, Rui Wang, Ruidong Wu, Junxian He

ImageReward: Learning and Evaluating Human Preferences for Text-to-Image Generation
Accepted by NeurIPS 2023

Jiazheng Xu*, Xiao Liu*, Yuchen Wu, **Yuxuan Tong**, Qinkai Li, Ming Ding, Jie Tang, Yuxiao Dong

(*) denotes co-first authors

RESEARCH EXPERIENCE

Seed-Infrastructures, ByteDance 2025.02 - Present
Research intern, **advised by Chi Zhang and Haibin Lin**

Working on **large-scale reinforcement learning infrastructure**.

Language Technologies Institute, Carnegie Mellon University (CMU-LTI) 2024.07 - 2025.02
Research intern, **advised by Prof. Graham Neubig and Dr. Xiang Yue**

Working on **building and understanding models capable of complex reasoning like OpenAI o1**.

NLP Group @ Hong Kong University of Science and Technology (HKUST-NLP) 2023.07 - 2024.06
Research intern, **advised by Prof. Junxian He**

Worked on **synthetic data for mathematical reasoning** since 2023.12, before which I worked on **process supervision**, **reward modeling**, **constrained decoding** for **mathematical reasoning** and **model merging**.

Knowledge Engineer Group @ Tsinghua University (THUKEG) 2022.11 - 2023.06

Research intern, **advised by** *Prof. Jie Tang* **and** *Prof. Yuxiao Dong*

Worked on **reward modeling** and **RLHF** for **text-to-image generation**

PROJECTS

Maintainer and core contributor of the LLM RL library `verl` 2025.02 - Present

AWARDS

- Tsinghua University *Research Scholarship* 2023,2024
- Tsinghua University *Comprehensive Merit Scholarship* (**top 5% undergraduates**) 2022

ACADEMIC SERVICES

Conference Review

NeurIPS 2024, The 4th MATH-AI Workshop @ NeurIPS 2024, ICLR 2025, ICML 2025

SKILLS

Programming Languages	Python, C/C++, TypeScript/JavaScript, SpinalHDL, System Verilog etc.
ML Libraries	PyTorch, DeepSpeed, HuggingFace, vLLM/SGLang, etc.
Tools	Git, Shell, SLURM, Linux Utilities, LaTeX, etc.