

HAN CUI(崔涵)

🌐 hancui.site · ✉ cuihan@westlake.edu.cn · ☎ (+86) 19845178466

EDUCATION

Westlake University & Zhejiang University, Hangzhou 2025.08 – 2029.06(*expected*)

WestlakeNLP Group, advised by Prof. Yue Zhang.

Harbin Institute of Technology, Harbin 2022.08 – 2024.12

Postgraduate student in Computer Science and Technology, rank: 4/260

Research Center for Social Computing and Information Retrieval

Harbin Institute of Technology, Harbin 2018.08 – 2022.06

BS. in Computer Science and Technology, Honors School

RESEARCH INTERESTS

Previously, my research interests focus on how to optimize model inference capability through control of the intermediate process, including generating an explanation graph for the predictions (*EG3P*), allowing the model to perform explicit reasoning on complex heterogeneous data by execution (*HProPro*), and optimizing the policy model by estimating intermediate values, from the perspective of Q-Learning (*DVO*). My goal is to develop training objectives that can leverage intermediate process signals—such as partial solutions, tool-use traces, verifier feedback, and successful/failed action sequences—to achieve more stable and sample-efficient agent learning in realistic digital environments.

SELECTED PUBLICATIONS

Deep Literature Survey Automation with an Iterative Workflow

Hongbo Zhang*, **Han Cui***, Yidong Wang, Yijian Tian, Qi Guo, Cunxiang Wang, Jian Wu, Chiyu Song, Yue Zhang. *Preprint.*

Direct Value Optimization: Improving Chain-of-Thought Reasoning in LLMs with Refined Values

Hongbo Zhang*, **Han Cui***, Guangsheng Bao*, Linyi Yang, Jun Wang, Yue Zhang. *EMNLP2025, Poster.*

Exploring Hybrid Question Answering via Program-based Prompting

Qi Shi*, **Han Cui***, Haofeng Wang, Qingfu Zhu, Wanxiang Che, and Ting Liu. *ACL2024, Poster.*

Explanation Graph Generation via Generative Pre-training over Synthetic Graphs

Han Cui, Shangzhan Li, Yu Zhang, and Qi Shi. *ACL2023, Findings.*

Minimizing Mismatch Risk: A Prototype-Based Routing Framework for Zero-shot LLM-generated Text Detection

Ke Sun, Guangsheng Bao, **Han Cui**, Yue Zhang. *ICML2026.*

INTERNSHIP

Westlake NLP Group Mar. 2024 – Aug. 2025

- Visiting Student, advised by Yue Zhang.
- Focus on enhancing the reasoning capabilities of models from the view of RL.

Foundation Research Center, Platform and Content Group, Tencent Jun. 2023 – Sep. 2023

- NLP Algorithm engineer intern, advised by Baoxun Wang and Xiaohui Sun.
- Mainly focus on text-to-speech and the system of the large language model.

SKILLS

- Programming
 - Programming Languages: Python (Advanced), C, C++ (Intermediate), SQL, Java (Intermediate)
 - AI/ML Frameworks
 - * Primary: PyTorch, Deepspeed, Pt-Lightning, PaddlePaddle, OpenAI APIs
 - * LLM Training & Inference: Transformers, vLLM, Megatron-LM, Verl
 - * Development Tools: Flask, Gradio, Git, Bash, Markdown, L^AT_EX
 - Other Technologies: LayUI, Wechat Mini Apps
- Languages
 - English - Fluent
 - Mandarin - Native speaker

HONORS AND COMMUNITY WORK

- Reviewer for conferences: ACL / EMNLP / COLM / ICML / IJCAI / ACL Rolling Review
- Excellent Student, Harbin Institute of Technology (2023.10)
- Graduate Scholarship with special distinction * 2 (2022.09, 2023.10)
- First Prize of Baidu Artificial Intelligence Creative Competition (1/248) (2022.04)
- People's Scholarship * 5 (2019* 2, 2020 * 2, 2021), The New Elite Scholarship * 2 (2019, 2020)