

HAN CUI

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EDUCATION

Harbin Institute of Technology, Harbin, Heilongjiang, China 2022.08 – Present

Postgraduate student in Computer Science and Technology (expected Mar 2025), rank: 4/260

Research Center for Social Computing and Information Retrieval, Adviser: Yu Zhang

Research Interests: Explicit Reasoning, Explanation Generation, Natural Language Processing

Harbin Institute of Technology, Harbin, Heilongjiang, China 2018.08 – 2022.08

BS. in Computer Science and Technology, Honors School

RESEARCH INTERESTS

My research interests focus on how to enable language models to complete downstream reasoning tasks in a user-approachable manner within natural language processing tasks. This primarily involves generating an explanation graph for the answers provided by the model to downstream tasks (*EG3P*), and allowing the model to perform explicit reasoning on complex heterogeneous data, ultimately executing outcomes (*HProPro*). Additionally, I am currently exploring Guided Reasoning, which involves integrating intermediate results produced by Large Language Models (LLMs), and applying pruning strategies to enhance the model's reasoning effectiveness.

PUBLICATIONS

Han Cui, Shangzhan Li, Yu Zhang, and Qi Shi, **Explanation Graph Generation via Generative Pre-training over Synthetic Graphs**, In Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (ACL), Findings, 2023.

Qi Shi*, **Han Cui***, Haofeng Wang, Qingfu Zhu, Wanxiang Che, and Ting Liu, **Exploring Hybrid Question Answering via Program-based Prompting.**, arXiv:2402.10812, 2024. (Accepted by ACL 2024 Main Conference)

INTERNSHIP

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

- NLP Algorithm engineer intern.
- Mainly focuses on text-to-speech and the system of the large language model.

HONORS AND AWARDS

- 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)

SKILLS

- Personal Page: <https://cccccent.github.io>
- Programming: Python, Java, C/C++, Pytorch, Paddlepaddle, transformers, numpy, LayUI, Wechat Mini Apps
- Languages: English - Fluent, Mandarin - Native speaker