

Min(Henry) Cai

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EDUCATION

Shenzhen University

Master of Science in Computer Science and Technology (GPA: 85.0%)

Guangdong, China

Sep.2021-Present

Beijing Language and Culture University

Bachelor of Arts in Translation (GPA: 89.8%)

Beijing, China

Sep.2016-Jun.2020

RESEARCH INTERESTS

- I have broad interests in NLP, and particularly interested in enhancing language models to obtain more knowledge, and **better reasoning abilities**.
- Furthermore, I am keen on incorporating ideas from other fields (e.g., linguistics, cognitive science, and neuroscience) into the development of language models, and hopefully building systems that can help us **understand the underlying mechanisms of human nature**.
- My current research focuses on several tasks, including i) **question answering over knowledge base/graph (KBQA)**, and ii) **relation extraction**. I'm also working on **Large Language Models (LLMs)**, trying to discover their upper bounds and then test their abilities on various tasks.

PUBLICATIONS

Prompt-Based Relation Extraction By Reasoning with Contextual Knowledge

Haodi Zhang, **Min Cai**, Chen Zhang, Di Jiang, Lixin Fan, Defu Lian, Kaishun Wu

Under review

Self-Convinced Prompting: Few-Shot Question Answering with Repeated Introspection

Haodi Zhang, **Min Cai**, Xinhe Zhang, Defu Lian, Rui Mao, Kaishun Wu

Under review

Recognizing Textual Entailment by Hierarchical Crowdsourcing with Diverse Labor Costs

Haodi Zhang, Yang Junyu, Wenxi Huang, **Min Cai**, Chen Zhang and Kaishun Wu

Under review

RESEARCH EXPERIENCE

Internet of Things Research Center Shenzhen University

Graduate Research Student

Sep.2021-Present

Advised by Prof. Haodi Zhang

- Aiming at i) incorporating miscellaneous types of knowledge (e.g., human heuristics, knowledge graph) into neural networks, ii) constructing better representations of knowledge, and iii) solving knowledge-intensive downstream tasks (e.g., KBQA, slot filling).
- Currently working on leveraging LLMs to solve complex knowledge-intensive and realistic problems.

Remote Research Collaboration with Dr. Ziniu Hu from Caltech/Google

Research Intern (Remote)

Aug.2023-Present

Working with Dr. Ziniu Hu

- Leveraging Large Language Models to solve complex problems in decision-making.

HONORS AND AWARDS

Outstanding Student Scholarship, the second prize, Shenzhen University	Oct.2021
Outstanding Student Scholarship, the third prize, Beijing Language and Culture University	Sep.2018

TEACHING EXPERIENCE

Teaching Assistant, Compilers, Spring 2023, Shenzhen University

ADDITIONAL INFORMATION

Languages: Chinese (Native in Mandarin and Cantonese; Fluent in Hakka), English (More fluently than Hakka)

NLP Toolkits: NLTK, Huggingface, HanLP, Stanford CoreNLP, AllenNLP

Deep/Machine Learning Toolkits: Pytorch, Numpy, Pandas, Scikit-learn

Document Editing: Latex

Programming Languages: Python, C, C++, HTML, CSS, Javascript