

# Min(Henry) Cai

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## EDUCATION

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### 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

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- 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

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### 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 at AAAI 2023*

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

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

*Under review at EMNLP 2023*

### 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 at ICDE 2024*

## RESEARCH EXPERIENCE

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### 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

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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

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Teaching Assistant, Compilers, Spring 2023, Shenzhen University

## ADDITIONAL INFORMATION

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**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