

CHEN ZHANG

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I am a third-year Ph.D. student at Wangxuan Institute of Computer Technology, Peking University, advised by Prof. Yansong Feng and Prof. Dongyan Zhao.

Currently, my research interests include

(1) NLP for Low-Resource Languages: Enhancing the transparency, inclusivity, and efficiency in human language technology for underrepresented languages;

(2) Complex Reasoning with LLMs: Leveraging the power of large language models in complex scenarios, including long contexts, multiple answers, and specialized domains.

Previously, I worked on question answering, focusing mainly on machine reading comprehension and question answering over knowledge bases.

EDUCATION

Ph.D. Student in Natural Language Processing

September 2021 - Now

Wangxuan Institute of Computer Technology, Peking University

B.Sc. in Computer Science

September 2017 - June 2021

Department of Computer Science and Technology, Peking University

SELECTED PUBLICATIONS

1. MULTILINGUALITY & LOW-RESOURCE NLP

MC²: Towards Transparent and Culturally-Aware NLP for Minority Languages in China

*Chen Zhang**, *Mingxu Tao**, *Quzhe Huang**, *Jiuheng Lin**, *Zhibin Chen*, *Yansong Feng*

ACL 2024

Teaching Large Language Models an Unseen Language on the Fly

Chen Zhang, *Xiao Liu*, *Jiuheng Lin*, *Yansong Feng*

ACL 2024 (Findings)

Can LLMs Learn a New Language on the Fly? A Case Study on Zhuang

Chen Zhang, *Mingxu Tao*, *Quzhe Huang*, *Zhibin Chen*, *Yansong Feng*

ICLR 2024 Tiny Paper (Notable)

Cross-Lingual Question Answering over Knowledge Base as Reading Comprehension

Chen Zhang, *Yuxuan Lai*, *Yansong Feng*, *Xingyu Shen*, *Haowei Du*, *Dongyan Zhao*

EACL 2023 (Findings)

2. COMPLEX REASONING WITH LARGE LANGUAGE MODELS

Harder Task Needs More Experts: Dynamic Routing in MoE Models

*Quzhe Huang**, *Zhenwei An**, *Nan Zhuang*, *Mingxu Tao*, *Chen Zhang*, *Yang Jin*, *Kun Xu*, *Kun Xu*, *Liwei Chen*, *Songfang Huang*, *Yansong Feng*

ACL 2024

Can Perplexity Reflect Large Language Model's Ability in Long Text Understanding?

Yutong Hu, *Quzhe Huang*, *Mingxu Tao*, *Chen Zhang*, *Yansong Feng*

ICLR 2024 Tiny Paper

The Magic of IF: Investigating Causal Reasoning Abilities in Large Language Models of Code

*Xiao Liu, Da Yin, **Chen Zhang**, Yansong Feng, Dongyan Zhao*

ACL 2023 (Findings)

Lawyer LLaMA Technical Report

Quzhe Huang, Mingxu Tao*, **Chen Zhang***, Zhenwei An*, Cong Jiang, Zhibin Chen, Zirui Wu, Yansong Feng*

Arxiv 2023

3. QUESTION ANSWERING

How Many Answers Should I Give? An Empirical Study of Multi-Answer Reading Comprehension

***Chen Zhang**, Jiuheng Lin, Xiao Liu, Yuxuan Lai, Yansong Feng, Dongyan Zhao*

ACL 2023 (Findings)

Relation-Aware Question Answering for Heterogeneous Knowledge Graphs

*Haowei Du, Quzhe Huang, Chen Li, **Chen Zhang**, Yang Li, Dongyan Zhao*

EMNLP 2023 (Findings)

Extract, Integrate, Compete: Towards Verification Style Reading Comprehension

***Chen Zhang**, Yuxuan Lai, Yansong Feng, Dongyan Zhao*

EMNLP 2021 (Findings)

A review of deep learning in question answering over knowledge bases

***Chen Zhang**, Yuxuan Lai, Yansong Feng, Dongyan Zhao*

AI Open 2021

Why Machine Reading Comprehension Models Learn Shortcuts

*Yuxuan Lai, **Chen Zhang**, Yansong Feng, Quzhe Huang, Dongyan Zhao*

ACL-IJCNLP 2021 (Findings)

(* Equal Contribution)

AWARDS & HONORS

- Outstanding Graduates of Beijing Ordinary Colleges and Universities, 2021
- Excellent Graduate of Peking University, 2021
- Google ML Winter Camp, Best Project, 2020
- Merit Student of Peking University, 2018 & 2019
- Founder Scholarship, 2018 & 2019

TEACHING

Teaching Assistant

- Foundations of Natural Language Processing, Peking University, Spring 2024
- Empirical Methods for Natural Language Processing, Peking University, Spring 2022
- Data Structures and Algorithms, Peking University, Fall 2020 & Spring 2021

SERVICES

Reviewer: ACL, EMNLP, ACL Rolling Review, COLING

Volunteer: EMNLP 2021 Remote Volunteer

SKILLS

Programming: C/C++, Python

Frameworks: PyTorch, Megatron

Human Languages: Chinese (Native), English (Fluent), Japanese (Intermediate)