

JINHAO JIANG

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🎓 EDUCATION

Renmin University of China

2021 – 2026 (expected)

Ph.D. student in Artificial Intelligence Supervisor: Xin Zhao

University of Electronic Science and Technology of China

2017 – 2021

B.S. in Software Engineering

🔍 RESEARCH

My research is mainly focused on Large Language Model + Structured Data (KG, DB, and Tables) including:

- *Knowledge-augmented LLMs*: how to augment LLMs with external knowledge for question answering (CommonsenseQA, KGQA), factual hallucinations reduction, and knowledge editing;
- *LLMs reasoning on Structured Data*: how to enable LLMs to reason over knowledge graph, to generate SQL query, or to reason over tables.
- *LLMs as Agents*: build human-like agents with the ability to memorize, plan, and receive feedback by interacting with the external environment (KG, DB, Tables), fine-tune smaller LLMs as autonomous agents like stronger LLMs.

📖 PUBLICATIONS

* Equal contributions

KG-Agent: An Efficient Autonomous Agent Framework for Complex Reasoning over Knowledge Graph

Jinhao Jiang, Kun Zhou, Wayne Xin Zhao[✉], Yang Song[✉], Chen Zhu, Hengshu Zhu, Ji-Rong Wen
arXiv:2402.11163

A Survey of Large Language Models

Wayne Xin Zhao, Kun Zhou*, Junyi Li*, Tianyi Tang, Xiaolei Wang, Yupeng Hou, Yingqian Min, Beichen Zhang, Junjie Zhang, Zican Dong, Yifan Du, Chen Yang, Yushuo Chen, Zhipeng Chen, **Jinhao Jiang**, Ruiyang Ren, Yifan Li, Xinyu Tang, Zikang Liu, Peiyu Liu, Jian-Yun Nie and Ji-Rong Wen
arXiv:2303.18223

StructGPT: A General Framework for Large Language Model to Reason over Structured Data

Jinhao Jiang*, Kun Zhou*, Zican Dong, Keming Ye, Wayne Xin Zhao[✉], and Ji-Rong Wen
The 2023 Conference on Empirical Methods in Natural Language Processing. EMNLP 2023

ReasoningLM: Enabling Structural Subgraph Reasoning in Pre-trained Language Models for Question Answering over Knowledge Graph

Jinhao Jiang*, Kun Zhou, Wayne Xin Zhao[✉], Yaliang Li, and Ji-Rong Wen
The 2023 Conference on Empirical Methods in Natural Language Processing. EMNLP 2023

UniKGQA: Unified Retrieval and Reasoning for Solving Multi-hop Question Answering Over Knowledge Graph

Jinhao Jiang*, Kun Zhou*, Wayne Xin Zhao[✉], and Ji-Rong Wen
International Conference on Learning Representations. ICLR 2023

Great Truths are Always Simple: A Rather Simple Knowledge Encoder for Enhancing the Commonsense Reasoning Capacity of Pre-Trained Models

Jinhao Jiang*, Kun Zhou*, Wayne Xin Zhao[✉] and Ji-Rong Wen

In Findings of 2022 Annual Conference of the North American Chapter of the Association for Computational Linguistics. NAACL 2022-Findings

Complex Knowledge Base Question Answering: A Survey

Yunshi Lan*, Gaole He*, Jinhao Jiang, Jing Jiang, Wayne Xin Zhao[✉], and Ji-Rong Wen

IEEE Transactions on Knowledge and Data Engineering. TKDE 2022

TextBox: A Unified, Modularized, and Extensible Framework for Text Generation

Junyi Li, Tianyi Tang, Gaole He, Jinhao Jiang, Xiaoxuan Hu, Puzhao Xie, Zhipeng Chen, Zhuohao Yu, Wayne Xin Zhao[✉] and Ji-Rong Wen

In the 59th Annual Meeting of the Association for Computational Linguistics. ACL 2021

A survey on complex knowledge base question answering: Methods, challenges and solutions

Yunshi Lan*, Gaole He*, Jinhao Jiang, Jing Jiang, Wayne Xin Zhao[✉], and Ji-Rong Wen

The 30th International Joint Conference on Artificial Intelligence. IJCAI 2021

OPEN-SOURCE PROJECTS

TextBox: An up-to-date text generation library with 1k+ stars in GitHub.

- A comprehensive, unified, and standardized library for users.
- It covers 13 common text generation tasks, 47 pre-trained language models, and 83 text generation datasets.
- Easy for users to reproduce text generation models and develop new algorithms.

ACADEMIC SERVICE

Reviewer

- Journal: TALLIP, Computational Intelligence, Information Retrieval Journal
- Conference: ICLR, EMNLP

HONORS AND AWARDS

Outstanding Graduates of Sichuan Province (<i>winning ratio 3.7%</i>), Education Department of Sichuan.	2021
China National Scholarship (<i>top 1.5%</i>), Ministry of Education of the People's Republic of China.	2020
China National Scholarship (<i>top 1.5%</i>), Ministry of Education of the People's Republic of China.	2019