

Dingzirui Wang

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Education

Harbin Institute of Technology	2022.09 – Present
Faculty of Computing Computer Science and Technology	PhD Candidate
• Research Center for Social Computing and Information Retrieval (HIT-SCIR), advised by Wanxiang Che	
Harbin Institute of Technology	2018.09 – 2022.06
Honors School of HIT Computer Science and Technology	Bachelor
Harbin Institute of Technology	2018.09 – 2022.06
School of Mathematics Information and Computing Science	Bachelor with a Minor

Publication

Text-to-SQL

- Improving Demonstration Diversity by Human-Free Fusing for Text-to-SQL. **Dingzirui Wang**, Longxu Dou, Xuanliang Zhang, et al. *EMNLP 2024 Findings*.
- ConDA: State-Based Data Augmentation for Context-Dependent Text-to-SQL. **Dingzirui Wang**, Longxu Dou, Wanxiang Che, et al. *JMLC 2024*.
- Towards Knowledge-Intensive Text-to-SQL Semantic Parsing with Formulaic Knowledge. Longxu Dou, Yan Gao, Xuqi Liu, Mingyang Pan, **Dingzirui Wang**, Wanxiang Che, et al. *EMNLP 2022*.
- MultiSpider: Towards Benchmarking Multilingual Text-to-SQL Semantic Parsing. Longxu Dou, Yan Gao, Mingyang Pan, **Dingzirui Wang**, Wanxiang Che, et al. *AAAI 2023*.
- UniSAR: a Unified Structure-Aware Autoregressive Language Model for Text-to-SQL Semantic Parsing. Longxu Dou, Yan Gao, Mingyang Pan, **Dingzirui Wang**, Wanxiang Che, et al. *JMLC 2023*.

Numerical Reasoning

- Enhancing Numerical Reasoning with the Guidance of Reliable Reasoning Processes. **Dingzirui Wang**, Longxu Dou, Xuanliang Zhang, Qingfu Zhu, Wanxiang Che. *ACL 2024*.
- Exploring Equation as a Better Intermediate Meaning Representation for Numerical Reasoning of Large Language Models. **Dingzirui Wang**, Longxu Dou, Wanxiang Che, et al. *AAAI 2024*.

Tabular Reasoning

- Multi-Hop Table Retrieval for Open-Domain Text-to-SQL. Xuanliang Zhang, **Dingzirui Wang**, Longxu Dou, Qingfu Zhu, Wanxiang Che. *COLING 2025*.
- A Survey of Table Reasoning with Large Language Models. Xuanliang Zhang, **Dingzirui Wang**, Longxu Dou, Qingfu Zhu, Wanxiang Che. *FCS 2024*

Evaluation

- CCKS-IJCKG 2024 Evaluation Tasks: Bilingual Text-to-SQL evaluation (**Second Place**), Language and Knowledge Computing Professional Committee of the Chinese Information Processing Society of China, 2024.
- The 1st Workshop on Robust NLP for Finance (RobustFin23): Shared Task ConvFinQA Challenge (**Champion-Prize**), KDD' 23 RobustFin workshop, 2023.
- National Information Retrieval Challenge Cup (CCIR Cup): Q&A Based on Hybrid Tables and Text Data in Financial Reports (**First Place**), Chinese Information Processing Society of China, 2022.
- State Grid AI Innovation Contest: Intelligent Retrieval of Power Grid Operation Information (**First Place**), State Grid Corporation, 2021.

Award

1. Huawei Scholarship, 2024.
2. Mucang Scholarship, 2024.
3. National Olympiad in Informatics in Provinces (NOIP), First Prize, 2017.