Yuxin Jiang

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Research Interests

Yuxin Jiang is a third-year Ph.D. candidate at HKUST. His interested research topics include (but are not limited to):

- **Instruction Tuning of LLMs**, especially on enhancing and evaluating the capability of language models to comprehend and execute complex instructions accurately.
- **Contrastive Learning in NLP**, focusing on leveraging contrastive learning to enhance the quality of embeddings and to enable more nuanced and context-aware language model performances.
- **Discourse Analysis**, concentrating on the application of computational methods to understand the structure and dynamics of conversations, and how various linguistic features influence discourse in different contexts.

Education

The Hong Kong University of Science and Technology Sep. 2021 – Jul. 2025 (Expected)
Ph.D. in Data Science and Analytics

The Hong Kong University of Science and Technology Sep. 2020 – Jul. 2021
M.S. in Big Data Technology

Shanghai University Sep. 2016 – Jul. 2020
B.S. in Mathematics and Applied Mathematics

Selected Publications

- **Yuxin Jiang**, Yufei Wang, Xingshan Zeng, Wanjun Zhong, Liangyou Li, Fei Mi, Lifeng Shang, Xin Jiang, Qun Liu, Wei Wang. FollowBench: A Multi-level Fine-grained Constraints Following Benchmark for Large Language Models. (**arXiv, Preprint**)
- **Yuxin Jiang**, Chunkit Chan, Mingyang Chen, Wei Wang. Lion: Adversarial Distillation of Proprietary Large Language Models. (**EMNLP 2023, Oral**)
- **Yuxin Jiang**, Linhan Zhang, Wei Wang. Global and Local Hierarchy-aware Contrastive Framework for Implicit Discourse Relation Recognition. (**ACL 2023, Findings**)
- Linhan Zhang, Qian Chen, Wen Wang, Chong Deng, Xin Cao, Kongzhang Hao, **Yuxin Jiang**, Wei Wang. Weighted Sampling for Masked Language Modeling. (**ICASSP 2023, Top 3%**)
- **Yuxin Jiang**, Linhan Zhang, Wei Wang. Improved Universal Sentence Embeddings with Prompt-based Contrastive Learning and Energy-based Learning. (**EMNLP 2022, Findings**)
- Ziyi Shou, **Yuxin Jiang**, Fangzhen Lin. AMR-DA: Data Augmentation by Abstract Meaning Representation. (**ACL 2022, Findings**)
- **Yuxin Jiang**, Ziyi Shou, Qijun Wang, Hao Wu, Fangzhen Lin. WordNet-Enhanced Dual Multi-head Co-Attention for Reading Comprehension of Abstract Meaning. (**SemEval 2021**)

Awards

- [2023] Top 3% Paper Recognition of All Papers Accepted at IEEE ICASSP (**top 1%**)
- [2021] School of Engineering Excellent Student Scholarship at HKUST (**top 5%**)
- [2021] Postgraduate Studentship at HKUST (**top 5%**)
- [2020] Outstanding Graduates of Shanghai (**top 1%**)
- [2016-2019] Merit Student of Shanghai University (**top 5%**)

Skills

- **English:** IELTS 7.0, GRE 324
- **Programming Skills:** Python, Matlab, C, HTML
- **Miscs:** Swimming, Photography