

Jiangjie Chen

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Research Interests

Devoted to reasoning over natural language and making neural models right for the right reasons. Main interested research topics include:

Explainable Natural Language Reasoning;
Factual and Controllable Text Generation.

Education

Ph.D. in Computer Science, Fudan University, 2019 – 2024 (estimated).

B.S. in Computer Science (with honor), Fudan University, 2014 – 2019.

Publications

[*: Equal Contribution]

Under Review

1. *E-KAR: A Benchmark for Rationalizing Natural Language Analogical Reasoning*
Jiangjie Chen, Rui Xu, Ziquan Fu, Wei Shi, Zhongqiao Li, Xinbo Zhang, Changzhi Sun, Lei Li, Yanghua Xiao and Hao Zhou.
Long paper, in: *submitted to ACL 2022*.
2. *Neighbors Are Not Strangers: Improving Non-Autoregressive Translation under Low-Frequency Lexical Constraints*
Chun Zeng*, **Jiangjie Chen***, Tianyi Zhuang, Rui Xu, Hao Yang, Ying Qin, Shimin Tao, Yanghua Xiao.
Long paper, in: *submitted to ACL ARR 2022 (January)*.

Proceedings

1. *FALCON: A Faithful Contrastive Framework for Response Generation in TableQA Systems*
Shineng Fang, **Jiangjie Chen**, Xinyao Shen, Yunwen Chen, Yanghua Xiao.
Long paper, in: *DASFAA 2022*.
2. *LoREN: Logic-Regularized Reasoning for Interpretable Fact Verification*
Jiangjie Chen, Qiaoben Bao, Changzhi Sun, Xinbo Zhang, Jiaze Chen, Hao Zhou, Yanghua Xiao, Lei Li.
Regular paper, in: *AAAI 2022 (oral)*.

3. *Unsupervised Editing for Counterfactual Stories*
Jiangjie Chen, Chun Gan, Sijie Cheng, Hao Zhou, Yanghua Xiao, Lei Li.
Regular paper, in: *AAAI 2022* (oral).
4. *Diversified Query Generation Guided with Knowledge Graph*
Xinyao Shen, **Jiangjie Chen**, Jiaze Chen, Chun Zeng, Yanghua Xiao.
Long paper, in: *WSDM 2022*.
5. *Harvesting More Answer Spans from Paragraphs beyond Annotation*
Qiaoben Bao, **Jiangjie Chen**, Linfang Liu, Jiaqing Liang, Jingping Liu, Yanghua Xiao.
Long paper, in: *WSDM 2022*.
6. *Diversified Paraphrase Generation with Commonsense Knowledge Graph*
Xinyao Shen, **Jiangjie Chen**, Yanghua Xiao.
Long paper, in: *NLPCC 2021* (oral).
7. *Probabilistic Graph Reasoning for Natural Proof Generation*
Changzhi Sun*, Xinbo Zhang*, **Jiangjie Chen**, Chun Gan, Yuanbin Wu, Jiaze Chen, Hao Zhou, Lei Li.
Long paper, in: *Findings of ACL 2021*.
8. *CN-Probase: A Data-driven Approach for Large-scale Chinese Taxonomy Construction*
Jindong Chen, Ao Wang, **Jiangjie Chen**, Yanghua Xiao, Zhendong Chu, Jingping Liu, Jiaqing Liang, Wei Wang.
Short paper, in: *ICDE 2019*.
9. *Ensuring Readability and Data-fidelity using Head-modifier Templates in Deep Type Description Generation*
Jiangjie Chen, Ao Wang, Haiyun Jiang, Suo Feng, Chenguang Li, Yanghua Xiao.
Long paper, in: *ACL 2019*.

Experience

ByteDance AI Lab, Nov. 2019 – Present.

Role: Research Intern

Advisors: Prof. Lei Li (now at UCSB), Dr. Hao Zhou, Dr. Changzhi Sun

Topics: Knowledge-guided Generation, Natural Language Reasoning

Knowledge Works Lab at Fudan University, Apr. 2017 – Present.

Role: Student Researcher

Advisor: Prof. Yanghua Xiao

Topics: Text Generation, Natural Language Reasoning, Knowledge Graph

Academic Services

Program Committee/Reviewer of EMNLP (2021), AAAI (2021, 2022), NLPCC (2021).