

# Jiangjie Chen

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## Research Interests

Devoted to reasoning over natural language and making machines being right for the right reasons. Main interested research topics include (but not limited to):

- Machine reasoning, especially on endowing various kinds of human-like reasoning abilities to language models, including analogical reasoning, counterfactual reasoning, decision-making, planning, etc.;
- Text generation, especially on the building of factual, faithful, controllable and knowledge-guided text generation techniques;
- The intersect of machine reasoning and text generation, i.e., achieving machine reasoning with the vehicle of natural language, especially with free-text rationales generated by language models.

## Education

**Fudan University** (Shanghai). Ph.D. in Computer Science 2019 - 2024 (estimated)  
Ph.D. Advisor: Yanghua Xiao.

**Fudan University** (Shanghai). B.S. in Computer Science (*honors student*) 2014 - 2019

## Research Papers

[\*: Equal Contribution]

### Publications

1. *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: *NAACL 2022* (oral).
2. *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: *Findings of ACL 2022*.
3. *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*.
4. *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).
5. *Unsupervised Editing for Counterfactual Stories*  
**Jiangjie Chen**, Chun Gan, Sijie Cheng, Hao Zhou, Yanghua Xiao, Lei Li.  
Regular paper, in: *AAAI 2022* (oral).
6. *Diversified Query Generation Guided with Knowledge Graph*  
Xinyao Shen, **Jiangjie Chen**, Jiaze Chen, Chun Zeng, Yanghua Xiao.  
Long paper, in: *WSDM 2022*.
7. *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*.
8. *Diversified Paraphrase Generation with Commonsense Knowledge Graph*  
Xinyao Shen, **Jiangjie Chen**, Yanghua Xiao.  
Long paper, in: *NLPCC 2021* (oral).
9. *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*.
10. *Ensuring Readability and Data-fidelity using Head-modifier Templates in Deep Type Description Generation*  
**Jiangjie Chen**, Ao Wang, Haiyun Jiang, Suo Feng, Chengguang Li, Yanghua Xiao.  
Long paper, in: *ACL 2019*.
11. *CN-Probbase: 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*. (CN-Probbase has achieved near 100 million API calls at <http://kw.fudan.edu.cn/cnprobbase>.)

## Experience

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**University of California, Santa Barbara (Remote)** Sept. 2021 - Present

- Role: Research Intern
- Host: Lei Li
- Topics: Machine Reasoning

**ByteDance AI-Lab (Shanghai)** Nov. 2019 - Present

- Role: Research Intern
- Advisors: Lei Li (now at UCSB), Hao Zhou (now at Tsinghua University), Changzhi Sun
- Topics: Knowledge-guided Generation, Machine Reasoning

**Knowledge Works Lab at Fudan University (Shanghai)** Apr. 2017 - Present

- Role: Student Researcher
- Advisor: Yanghua Xiao
- Topics: Text Generation, Machine Reasoning, Knowledge Graph

## Awards

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China National Scholarship for Doctoral Students 2022

Honors Student Award in Computer Science of Top Talent Undergraduate Training Program 2019

## Academic Service

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- Program Committee/Reviewer of EMNLP (2021, 2022), AAAI (2021-2023), TPAMI (2022), APIN (2022), WSDM (2023), NLPCC (2021, 2022).