

# JIALE HAN

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📍 Beijing, China

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## EDUCATION

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**Beijing University of Posts and Telecommunications** September 2018 – June 2023

Ph.D. in Computer Science and Technology

Advisor: Prof. Bo Cheng

Thesis Title: Research on Key Technologies of Relation Extraction in Low-Resource Scenarios

**Xidian University** August 2014 – June 2018

B.Eng. in Telecommunications Engineering GPA 3.8/4.0

Advised: Prof. Quanxue Gao

Thesis Title: Multi-View Clustering based on Low-Rank Representation

## RESEARCH EXPERIENCE

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**Singapore University of Technology and Design** September 2021 – March 2023

Visiting Research Fellow at StatNLP Research Group

Advisor: Prof. Wei Lu

## RESEARCH INTERESTS

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I have a broad range of interests in natural language processing (NLP) and deep learning. The goal is to bridge the gap between AI and humans and build general, green, and explainable AI systems. My research focuses on developing effective and efficient techniques with little supervised data to represent, generate, and reason semantic and structural information from plain text and other modalities such as large-scale knowledge graphs.

Topics that I have been working on include:

- Information Extraction
- Low-Resource NLP
- Knowledge Reasoning

## CONFERENCE PUBLICATIONS

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- C10. Generative Prompt Tuning for Relation Classification.**  
Jiale Han, Shuai Zhao, Bo Cheng, Shengkun Ma, and Wei Lu.  
In Findings of the Association for Computational Linguistics: EMNLP (Findings of EMNLP 2022).
- C9. Exploring Task Difficulty for Few-Shot Relation Extraction.**  
Jiale Han, Bo Cheng, and Wei Lu.  
In the Conference on Empirical Methods in Natural Language Processing (EMNLP 2021).
- C8. Learning Discriminative and Unbiased Representations for Few-Shot Relation Extraction.**  
Jiale Han, Bo Cheng, and Guoshun Nan.  
In the ACM International Conference on Information and Knowledge Management (CIKM 2021).
- C7. Integrating Subgraph-Aware Relation and Direction Reasoning for Question Answering.**  
Xu Wang, Shuai Zhao, Bo Cheng, Jiale Han, Yingting Li, Hao Yang, Ivan Sekulic, and Guoshun Nan.  
In the International Conference on Acoustics, Speech and Signal Processing (ICASSP 2021).

- C6. Open Domain Question Answering based on Text Enhanced Knowledge Graph with Hyperedge Infusion.**  
 Jiale Han, Bo Cheng, and Xu Wang.  
 In Findings of the Association for Computational Linguistics: EMNLP (Findings of EMNLP 2020).
- C5. Modelling Long-distance Node Relations for KBQA with Global Dynamic Graph.**  
 Xu Wang, Shuai Zhao, Jiale Han, Bo Cheng, Hao Yang, Jianchang Ao, and Zhenzi Li.  
 In the International Conference on Computational Linguistics (COLING 2020).
- C4. Two-Phase Hypergraph based Reasoning with Dynamic Relations for Multi-Hop KBQA.**  
 Jiale Han, Bo Cheng, and Xu Wang.  
 In the International Joint Conferences on Artificial Intelligence (IJCAI 2020).
- C3. DVKCM: Knowledge-guided Conversation Generation with Dynamic Vocabulary.**  
 Xu Wang, Shuai Zhao, Bo Cheng, Jiale Han, Xiangsheng Wei, Yi Liang, and Hao Yang.  
 In the International Joint Conference on Neural Networks (IJCNN 2020).
- C2. Hypergraph Convolutional Network for Multi-Hop Knowledge Base Question Answering** (Student Abstract).  
 Jiale Han, Bo Cheng, and Xu Wang.  
 In the AAAI Conference on Artificial Intelligence (AAAI 2020).
- C1. HGMAN: Multi-Hop and Multi-Answer Question Answering Based on Heterogeneous Knowledge Graph** (Student Abstract).  
 Xu Wang, Shuai Zhao, Bo Cheng, Jiale Han, Yingting Li, Hao Yang, and Guoshun Nan.  
 In the AAAI Conference on Artificial Intelligence (AAAI 2020).

## JOURNAL PUBLICATIONS

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- J2. Towards Hard Few-Shot Relation Classification.**  
 Jiale Han, Bo Cheng, Zhiguo Wan, and Wei Lu.  
 In the IEEE Transactions on Knowledge and Data Engineering (TKDE 2023).
- J1. Multiview Clustering by Joint Latent Representation and Similarity Learning.**  
 Deyan Xie, Xiangdong Zhang, Quanxue Gao, Jiale Han, Song Xiao, and Xinbo Gao.  
 In the IEEE Transactions on Cybernetics (TCYB 2019).

## SERVICES

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|-------------------------------------|--|
| <b>Conference Program Committee</b> | ACL ARR 2023, NLPCC 2023,<br>EMNLP 2022, COLING 2022, NLPCC 2022,<br>ACL ARR 2021, NLPCC 2021. |
| <b>Journal Reviewer</b>             | TNNLS, TALLIP, TJSC,<br>J. Intell. Fuzzy Syst., J. Supercomputing,<br>Multimedia Systems       |

## SCHOLARSHIPS AND AWARDS

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|   |             |
|---|-------------|
| Outstanding Graduate Award, BUPT.                     | 2023        |
| Excellent Ph.D. Students Foundation, BUPT.            | 2020 – 2022 |
| First-class Ph.D. Academic Scholarship, BUPT.         | 2020        |
| Excellent Postgraduate Award, BUPT.                   | 2019 – 2020 |
| Excellent Graduation Thesis Award, Xidian University. | 2018        |

## PROGRAMMING SKILLS

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|---------------|---|
| <b>Python</b> | machine learning, deep learning (PyTorch, HuggingFace), data analysis |
| <b>MATLAB</b> | data analysis   |
| <b>C/JAVA</b> | basic programming   |

## LANGUAGE SKILLS

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| <b>Mandarin</b> | native language     |
| <b>English</b>  | working proficiency |