

# 盛傢伟

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## 个人总结

盛傢伟, 预聘副研究员, 2023 年博士毕业于中科院信工所, 入选信工所优才计划 B 类, 主要研究兴趣为事件知识获取、知识推理融合、大模型内容安全应用。总计在国际顶级学术会议或期刊发表论文 20 余篇, 被引 550 余次, 在全国知识图谱旗舰会议 CCKS 2021、2022 技术评测中两次获第一名及技术创新奖, 多次担任 10 余个国际顶级学术会议或期刊审稿人, 授权或受理专利 7 项。目前获国家自然科学基金青年基金、中科院特别研究助理项目、博士后国资计划、快手校企合作等多个项目资助, 参与重点研发、中科院先导等多个重点项目。曾获中科院朱李月华优秀博士生奖学金、优秀毕业生奖。

## 教育背景

吉林大学, 计算机科学与技术 (网络信息安全), 理学学士 2014.09 - 2018.06  
校优秀学生, 免试推荐至中国科学院攻读博士学位  
中国科学院-信息工程研究所, 网络空间安全, 博士研究生 2018.09 - 2023.06  
朱李月华优秀博士生奖学金 (0.1%), 中国科学院大学三好学生, 优秀毕业生  
中国科学院-信息工程研究所, 信息对抗研究室, 预聘副研究员 2023.07 至今

## 项目经历

- 国家自然科学基金青年项目, 主持, 跨领域知识图谱补全关键技术研究, 30 万, 2025.01-2027.12
- 中科院特别研究助理, 主持, 面向知识关联发现的跨领域联合建模方法研究, 80 万, 2023.07-2026.07
- 博后国资计划 (C 类), 主持, 跨域联合建模的知识关联发现关键技术研究, 24 万, 2023.07-2025.07
- 快手校企合作项目, 主持, 基于主播关系图的直播推荐算法研究, 50 万, 2024.08-2025.08
- 国家重点研发计划, 学生骨干, 某知识图谱构建理论研究, 2021.12-2024.11
- 中国科学院先导专项, 学生骨干, 某知识图谱构建与利用系统, 2019.08-2021.12

## 论文成果 (CCF-A: 8, CCF-B: 11)

- Jiawei Sheng, Rui Sun, Shu Guo, Shiyao Cui, Jiangxia Cao, Lihong Wang, Tingwen Liu and Hongbo Xu. CorED: Incorporating Type-level and Instance-level Correlations for Fine-grained Event Detection. In *Proceedings of the 45th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR)*, 2022. (CCF-A 类会议, 信息检索领域顶会)
- Jiawei Sheng, Shu Guo, Bowen Yu, Qian Li, Yiming Hei, Lihong Wang, Tingwen Liu, Hongbo Xu. CasEE: A Joint Learning Framework with Cascade Decoding for Overlapping Event Extraction. *Findings of the Annual Meeting of the Association for Computational Linguistics (Findings of ACL)*, 2021. (CCF-A 类会议 Findings, 自然语言处理领域顶会, 被引数: 66)
- Zefeng Zhang<sup>†</sup>, Jiawei Sheng<sup>†</sup>, Chuang Zhang, Yunzhi Liang, Wen Yuan Zhang, Siqi Wang, Tingwen Liu. Optimal Transport Guided Correlation Assignment for Multimodal Entity Linking. *Findings of the Annual Meeting of the Association for Computational Linguistics (Findings of ACL)*, 2024. (CCF-A 类会议 Findings, 自然语言处理领域顶会, 共同一作)
- Taoyu Su, Jiawei Sheng\*, Shicheng Wang, Xinghua Zhang, Hongbo Xu, Tingwen Liu. IBMEA: Exploring Variational Information Bottleneck for Multi-modal Entity Alignment. In *Proceedings of the ACM Multimedia (MM)* 2024. (CCF-A 类会议, 人工智能领域顶会, 通讯作者)
- Jiawei Sheng, Shu Guo, Zhenyu Chen, Juwei Yue, Lihong Wang, Tingwen Liu, Hongbo Xu. Adaptive Attentional Network for Few-Shot Knowledge Graph Completion. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2020. (CCF-B 类会议, 自然语言处理领域顶会, 被引数: 117)
- Jiawei Sheng, Xin Cong, Jiangxia Cao, Shu Guo, Chen Li, Lihong Wang, Tingwen Liu, Hongbo Xu. Uncertain Relational Hypergraph Attention Networks for Document-level Event Factuality Identification. In *Proceedings of the European Conference on Artificial Intelligence (ECAI)*, 2023. (CCF-B 类会议, 人工智能领域顶会)
- Taoyu Su, Xinghua Zhang, Jiawei Sheng\*, Zhenyu Zhang, Tingwen Liu. LoginMEA: Local-to-Global Interaction Network for Multi-modal Entity Alignment. In *Proceedings of the 27th European Conference on Artificial Intelligence (ECAI)*, 2024. (CCF-B 类会议, 人工智能领域顶会, 通讯作者)

8. Xiaodong Li, **Jiawei Sheng\***, Jiangxia Cao, Wenyuan Zhang, Quangang Li, Tingwen Liu\*. CDRNP: Cross-Domain Recommendation to Cold-Start Users via Neural Process. *The 17th ACM International Conference on Web Search and Data Mining (WSDM)*, 2024. (CCF-B 类会议, 数据挖掘领域顶会, 通讯作者)
9. Gehang Zhang, **Jiawei Sheng\***, Shicheng Wang, Tingwen Liu\*. Noise-Disentangled Graph Contrastive Learning via Low-rank and Sparse Subspace Decomposition. *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2024. (CCF-B 类会议, 信号处理领域重要会议, 通讯作者)
10. Gehang Zhang, Bowen Yu, Jiangxia Cao, Xinghua Zhang, **Jiawei Sheng\***, Chuan Zhou, and Tingwen Liu. ID-MixGCL: Identity Mixup for Graph Contrastive Learning. In *Proceedings of the IEEE International Conference on Big Data*, 2023. (CCF-C 类会议, 数据挖掘领域会议, 通讯作者)
11. **Jiawei Sheng**, Qian Li, Yiming Hei, Shu Guo, Bowen Yu, Lihong Wang, Min He, Tingwen Liu, Hongbo Xu. A Joint Learning Framework for the CCKS-2020 Financial Event Extraction Task. *Data Intelligence*, 2021. (SCI 期刊, CCKS 比赛第一名获奖方案)
12. Jiangxia Cao, **Jiawei Sheng**, Xin Cong, Tingwen Liu and Bin Wang. Cross-Domain Recommendation to Cold-Start Users via Variational Information Bottleneck. In *Proceedings of the 38th IEEE International Conference on Data Engineering (ICDE)*, 2022. (CCF-A 类会议, 数据挖掘领域顶会, 被引数: 74)
13. Bowen Yu, Zhenyu Zhang, **Jiawei Sheng**, Tingwen Liu, Yubin Wang, Yucheng Wang, Bin Wang. Semi-Open Information Extraction. In *Proceedings of the 30th Web Conference (WWW)*, 2021. (CCF-A 类会议, 人工智能领域顶会, 被引数: 26)
14. Lihong Wang, Juwei Yue, Shu Guo, **Jiawei Sheng**, Qianren Mao, Zhenyu Chen, Shenghai Zhong, Chen Li. Multi-level Connection Enhanced Representation Learning for Script Event Prediction. In *Proceedings of the 30th Web Conference (WWW)*, 2021. (CCF-A 类会议, 人工智能领域顶会)
15. Xinghua Zhang, Gaode Chen, Shiyao Cui, **Jiawei Sheng**, Tingwen Liu, Hongbo Xu. Exogenous and Endogenous Data Augmentation for Low-Resource Complex Named Entity Recognition. In *Proceedings of the 47th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR)*, 2024. (CCF-A 类会议, 信息检索领域顶会)
16. Qian Li, Shu Guo, Yangyifei Luo, Cheng Ji, Lihong Wang, **Jiawei Sheng**, Jianxin Li. Attribute-Consistent Knowledge Graph Representation Learning for Multi-Modal Entity Alignment. In *Proceedings of the Web Conference (WWW)*, 2023. (CCF-A 类会议, 人工智能领域顶会, 被引数: 27)
17. Xin Cong, **Jiawei Sheng**, Shiyao Cui, Bowen Yu, Tingwen Liu and Bin Wang. Relation-Guided Few-Shot Relational Triple Extraction. In *Proceedings of the 45th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR)*, 2022. (CCF-A 类会议, 信息检索领域顶会)
18. Shiyao Cui, **Jiawei Sheng**, Xin Cong, Quangang Li, Tingwen Liu, Jinqiao Shi. Event Causality Extraction with Event Argument Correlations. In *Proceedings of the 29th International Conference on Computational Linguistics (COLING)*, 2022. (CCF-B 类会议, 自然语言处理领域重要会议)
19. Qian Li, Jianxin Li, **Jiawei Sheng**, Shiyao Cui, Jia Wu, Yiming Hei, Hao Peng, Shu Guo, Lihong Wang, Amin Beheshti, Philip S. Yu. A Survey on Deep Learning Event Extraction: Approaches and Applications. *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, 2022. (CCF-B 类期刊, 人工智能领域重要期刊, 被引数: 77)
20. Jiangxia Cao, Xin Cong, **Jiawei Sheng**, Tingwen Liu, Bin Wang. Contrastive Cross-Domain Sequential Recommendation. In *Proceedings of the 31st ACM International Conference on Information & Knowledge Management (CIKM)*, 2022. (CCF-B 类会议, 数据挖掘领域顶会, 被引数: 55)
21. Shiyao Cui, Jiangxia Cao, Xin Cong, **Jiawei Sheng**, Quangang Li, Tingwen Liu, Jinqiao Shi. Enhancing Multimodal Entity and Relation Extraction With Variational Information Bottleneck. *The IEEE/ACM Transactions on Audio, Speech, and Language Processing (TALSP)*, 2024. (CCF-B 类期刊, 自然语言处理领域期刊)
22. Hongren Huang, Shu Guo, Chen Li, **Jiawei Sheng**, Lihong Wang, Jianxin Li, Jing Liu, Shenghai Zhong. Two-tier Graph Contextual Embedding for Cross-device User Matching. In *Proceedings of the 30th ACM International Conference on Information and Knowledge Management (CIKM)*, 2021. (CCF-B 类会议, 数据挖掘领域顶会)
23. Xinghua Zhang, Bowen Yu, Tingwen Liu, Zhenyu Zhang, **Jiawei Sheng**, Mengge Xue, Hongbo Xu. Improving Distantly-Supervised Named Entity Recognition with Self-Collaborative Denoising Learning. *Findings of the Conference on Empirical Methods in Natural Language Processing (Findings of EMNLP)*, 2021. (CCF-B 类会议 Findings, 自然语言处理领域顶会, 被引数: 20)
24. Qian Li, Jianxin Li, Lihong Wang, Cheng Ji, Yiming Hei, **Jiawei Sheng**, Qingyun Sun, Shan Xue, Pengtao Xie. Type Information Utilized Event Detection via Multi-Channel GNNs in Electrical Power Systems. *ACM Transactions on the Web (TWEB)*, 2023. (CCF-B 类期刊, 数据挖掘领域重要期刊)
25. Yiming Hei, **Jiawei Sheng**, Lihong Wang, Qian Li, Shu Guo, Jianwei Liu. Decomposition and recombination. A soft cascade model for event detection. *Knowledge-Based Systems (KBS)*, 2024. (CCF-C 类期刊, 数据挖

掘领域期刊)

26. Qian Li, Shu Guo, Jia Wu, Jianxin Li, **Jiawei Sheng**, Hao Peng, and Lihong Wang. Event Extraction by Associating Event Types and Argument Roles. *IEEE Transactions on Big Data (TBD)*. 2023. (CCF-C 类期刊, 数据挖掘领域期刊)
27. Zhaohui Wang, Xinghua Zhang, Yanzeng Li, Yubin Wang, **Jiawei Sheng**, Tingwen Liu and Hongbo Xu. Enhancing Pre-Trained Language Representations Based on Contrastive Learning for Unsupervised Keyphrase Extraction. In *Proceedings of the 34th International Conference on Software Engineering & Knowledge Engineering (SEKE)*, 2022. (CCF-C 类会议, 自然语言处理领域会议)

## 获奖经历

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- CCKS 2020 小样本跨类迁移事件抽取竞赛, 比赛第一名 (1/391)
- CCKS 2020 小样本跨类迁移事件抽取竞赛, 技术创新奖
- CCKS 2021 通用细粒度事件检测竞赛, 比赛第一名 (1/253)
- CCKS 2021 通用细粒度事件检测竞赛, 技术创新奖
- 中国科学院朱李月华优秀博士奖学金
- 中国科学院信息工程研究所优秀毕业生奖
- 中国科学院大学学业奖学金

## 申请专利

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- 一种基于解耦拉普拉斯算子的深度社交网络表征方法与装置, 第一发明人, 2024. 已受理
- 一种基于表征子空间解耦的柔性图对比学习方法与装置, 第二发明人, 2024. 已受理
- 基于神经过程的跨社交网络用户对齐方法及系统, 第二发明人, 2024. 已受理
- 一种基于类别和实例增强的文本多事件检测方法与装置, 第三发明人, 2021. 专利号: CN113722481A
- 基于元知识的突发事件预警方法、装置和电子装置, 第五发明人, 2021. 专利号: CN113822069A
- 基于终身学习的金融领域事件抽取方法及装置, 第五发明人, 2021. 专利号: CN113850064A
- 基于事件隐式要素与显式联系的事件预测方法和装置, 第六发明人, 2021. 专利号: CN113761337A