

Curriculum Vitae of Tianxing Wu

Updated: March 9, 2024

Birth year: 1990

Email: tianxingwu@seu.edu.cn

Research Interests

Knowledge Graph, Knowledge Representation and Reasoning, Data Mining, Artificial Intelligence Applications

Education

March, 2015 – September, 2018

Ph.D. in Software Engineering

Southeast University, China (Advisor: Prof. Dr. Guilin Qi)

September, 2012 – November, 2014

Master of Engineering in Software Engineering

Southeast University, China (Advisor: Prof. Dr. Guilin Qi)

September, 2008 – June, 2012

Bachelor of Engineering in Computer Science and Technology (Software Class)

Nanjing Tech University, China (GPA Ranking: 2/109)

Professional Experience

April, 2023 – Now

Associate Professor

at School of Computer Science and Engineering, Southeast University, China

January, 2020 – April, 2023

Assistant Professor (Tenure-Track)

at School of Computer Science and Engineering, Southeast University, China

June, 2018 – December, 2019

Postdoc Researcher

Research Associate (June, 2018 – September, 2018)

Research Fellow (October, 2018 – December, 2019)

at the Research Group of “Data Management and Analytics”, School of Computer Science and Engineering, Nanyang Technological University, Singapore
(work with Prof. Dr. Arijit Khan)

July, 2016 – September, 2016

Visiting Researcher

at the Research Group of “Web Science and Knowledge Management”, Institute AIFB, Karlsruhe Institute of Technology, Germany (work with Dr. Lei Zhang)

Awards and Scholarships

- 2023 **The Vice President of Science and Technology in Jiangsu Province**
- 2022 **The Excellent Undergraduate Supervisor of Southeast University**
- 2022 **CCKS Best Paper Award**
- 2022 **The Aegis Faculty Fellowship Award** (10,000 CNY)
- 2021 **ZhiShan Young Scholar of Southeast University**
- 2021 **The Doctor of Entrepreneurship and Innovation in Jiangsu Province**
- 2020 **The Excellent Ph.D. Degree Dissertation of Southeast University**
42 out of 643 PhD degree dissertations (2018 – 2019) of Southeast University
- 2019 **The Excellent Ph.D. Degree Dissertation of Jiangsu Computer Society**
- 2017 **China National Scholarship for PhD Students** (30,000 CNY)
the 2nd time during my PhD
- 2016 **China National Scholarship for PhD Students** (30,000 CNY)
3 out of about 70 CS PhD students in Southeast University each year
- 2016 **The Excellent Master Degree Thesis of Jiangsu Province (China)**
300 out of all the master degree theses (2014 – 2015) of 47 universities or institutes in Jiangsu Province (China)
- 2016 **The Excellent Master Degree Thesis of Southeast University**
52 out of 3,492 master degree theses (2014 – 2015) of Southeast University
- 2014 **The Excellent Master Degree Graduate of Southeast University**
10 out of about 150 CS master degree graduates in Southeast University (2014)
- 2010 **China National Scholarship for Undergraduate Students** (8,000 CNY)
3 out of about 1000 CS and EE undergraduates in Nanjing Tech University each year

Funding

- **NSFC General Program Grant (China)**
PI, 490,000 CNY January, 2024 – December, 2027

Research on Methods of Computation and Reasoning over Uncertain Knowledge Graphs

- **The Grant of NOMAX Information Technology Co., Ltd (China)**
PI, 750,000 CNY December, 2023 – May, 2024
Artificial Intelligence Grading
- **The Grant of Jiangsu Provincial Department of Science and Technology (China)**
PI, 300,000 CNY May, 2023 – May, 2025
Research and Development of Knowledge and Data Dual-Driven Smart Disease Service and Health Management Model
- **Zhejiang Lab Grant (China)**
PI, 90,000 CNY April, 2023 – June, 2023
Robot Capability Knowledge Graph Construction
- **Zhejiang Lab Grant (China)**
PI, 90,000 CNY December, 2022 – June, 2023
Autonomous Navigation Knowledge Graph Construction for Mobile Robots in the Simulation Field of Extraterrestrial Surfaces
- **Southeast University Grant (ZhiShan Young Scholar Program, China)**
PI, 300,000 CNY January, 2022 – December, 2024
Research on Technologies of Large-Scale Dynamic Knowledge Graph Representation Learning and Reasoning
- **Jiangsu Education Department Grant (The Project for the Doctor of Entrepreneurship and Innovation in Jiangsu Province, China)**
PI, 150,000 CNY October, 2021 – September, 2023
Multilingual Knowledge Graph Construction from the Web & Cross-Language Applications
- **The Grant of Nanjing Human Resources and Social Security Bureau (2021 Nanjing Scientific and Technological Innovation Project for Overseas Students, Funding Category: B, China)**
PI, 50,000 CNY July, 2021 – June, 2022
Multilingual Knowledge Graph Construction from the Web
- **The Grant of State Grid Jiangsu Electric Power Company Research Institute (China)**
PI, 695,000 CNY May, 2021 – October, 2022
Knowledge Graph Construction on Relay Protection and its High-Level Applications
- **NSFC Young Scientists Fund Grant (China)**
PI, 240,000 CNY January, 2021 – December, 2023
Research on Key Technologies of Bilingual Knowledge Graph Construction from Social Web Sites
- **The Grant of State Grid Jiangsu Electric Power Company Research Institute (China)**
PI, 291,000 CNY July, 2020 – January, 2021

- **The Start-Up Grant of Southeast University (China)**
PI, 100,000 CNY July, 2020 – December, 2020
Research on Key Technologies of Chinese-English Bilingual Knowledge Graph Construction
- **The Grant of Research Innovation Program for College Graduates in Jiangsu Province (China)**
PI, 24,000 CNY September, 2016 – September, 2017
Research on Cross-Lingual Taxonomy Matching Based on Bilingual Topic Models

Publications (<https://scholar.google.com/citations?user=VE7OIakAAAAJ>)

Book Chapter:

Tianxing Wu, Guilin Qi, Cheng Li. Introduction to Chinese Knowledge Graphs and their Applications. The New Silk Road Leads through the Arab Peninsula: Mastering Global Business and Innovation. Emerald Publishing Limited, 2019: 153-167.

Journal and Conference Papers:

2024

Tianxing Wu, Lin Li, Huan Gao, Guilin Qi, Yuxiang Wang, Yuehua Li. NPTEL: Neural Paired Entity Linking in Web Tables. *ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP)*, 2024. (IF=2)

Yuxiang Wang, Shuzhan Ye, Xiaoliang Xu, Yuxia Geng, Zhenghe Zhao, Xiangyu Ke, **Tianxing Wu**. Scalable Community Search with Accuracy Guarantee on Attributed Graphs. *In: Proceedings of the 40th IEEE International Conference on Data Engineering (ICDE)*, 2024. (Full Paper)

Yuxiang Wang, Chengjie Gu, Xiaoliang Xu, Xinjun Zeng, Xiangyu Ke, **Tianxing Wu**. Efficient and effective (k, P)-core-based community search over attributed heterogeneous information networks. *Information Sciences*, 2024, 661: 120076. (IF=8.1)

2023

Tianxing Wu, Xudong Cao, Yipeng Zhu, Feiyue Wu, Tianling Gong, Yuxiang Wang, Shenqi Jing. AsdKB: A Chinese Knowledge Base for the Early Screening and Diagnosis of Autism Spectrum Disorder. *In: Proceedings of the 22nd International Semantic Web Conference (ISWC), Part II*, 2023: 59-75. (Full Paper)

Yongrui Chen, Huiying Li, Guilin Qi, **Tianxing Wu**, Tenggou Wang. Outlining and Filling: Hierarchical Query Graph Generation for Answering Complex Questions over Knowledge Graphs. *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 2023, 35(8): 8343-8357. (IF=9.235)

Yuxiang Wang, Jun Liu, Xiaoliang Xu, Xiangyu Ke, **Tianxing Wu**, Xiaoxuan Gou. Efficient and Effective Expert Finding on Heterogeneous Graphs through (k, P)-Core based Embedding. *ACM Transactions on Knowledge Discovery from Data (TKDD)*,

2023, 17(6): 85:1-85:35. (IF=4.157)

Xiaoxuan Gou, Xiaoliang Xu, Xiangying Wu, Runhuai Chen, Yuxiang Wang, **Tianxing Wu**, Xiangyu Ke. Effective and Efficient Community Search with Graph Embeddings. In: *Proceedings of the 26th European Conference on Artificial Intelligence (ECAI)*, 2023: 891-898. (Full Paper)

Meixiang Lv, Xudong Cao, **Tianxing Wu**, Yuehua Li. A Civil Aviation Customer Service Ontology and Its Applications. *Data Intelligence*, 2023, 5(4): 1063-1081.

Xinnan Guo, Wentao Deng, Yongrui Chen, Yang Li, Mengdi Zhou, Guilin Qi, **Tianxing Wu**, Dong Yang, Liubin Wang, Yong Pan. CoMave: Contrastive Pre-training with Multi-scale Masking for Attribute Value Extraction. In: *Findings of the Association for Computational Linguistics (ACL Findings)*, 2023: 6007-6018. (Full Paper)

2022

Tianxing Wu, Arijit Khan, Melvin Yong, Guilin Qi, Meng Wang. Efficiently embedding dynamic knowledge graphs. *Knowledge-Based Systems (KBS)*, 2022, 250: 109124. (IF=8.139)

Tianxing Wu, Minghao Wang, Xiaoqing Cheng, Wendong Liu, Shutong Zhu, Xuefeng Zhang. Predicting Incidence of Hepatitis E for Thirteen Cities in Jiangsu Province, China. *Frontiers in Public Health*, 2022, 10: 942543. (IF=6.461)

Xinnan Guo, Yongrui Chen, Guilin Qi, **Tianxing Wu**, Hao Xu. Improving Few-Shot Text-to-SQL with Meta Self-Training via Column Specificity. In: *Proceedings of the 31st International Joint Conference on Artificial Intelligence (IJCAI)*, 2022: 4150-4156. (Full Paper)

Sheng Bi, Zafar Ali, Meng Wang, **Tianxing Wu**, Guilin Qi. Learning heterogeneous graph embedding for Chinese legal document similarity. *Knowledge-Based Systems (KBS)*, 2022, 250: 109046. (IF=8.139)

Xiaoqing Cheng, Wendong Liu, Xuefeng Zhang, Minghao Wang, Changjun Bao, **Tianxing Wu**. Predicting Incidence of Hepatitis E Using Machine Learning in Jiangsu Province, China. *Epidemiology & Infection*, 2022, 150, e149:1-7. (IF=4.434)

Jingting Wang, **Tianxing Wu**, Jiatao Zhang. Incorporating Uncertainty of Entities and Relations into Few-Shot Uncertain Knowledge Graph Embedding. In: *Proceedings of the 7th China Conference on Knowledge Graph and Semantic Computing (CCKS)*, 2022: 16-28. (Full Paper, **Best English Paper Award**)

Yilin Chen, Jingting Wang, Shutong Zhu, Yuang Gu, Haoyu Dai, Jingyi Xu, Yipeng Zhu, **Tianxing Wu**. Knowledge Graph Construction for Foreign Military Unmanned Systems. In: *Proceedings of the 7th China Conference on Knowledge Graph and Semantic Computing (CCKS), Evaluation Track*, 2022: 127-137. (Full Paper)

Tianxing Wu, Chaoyu Gao, Lin Li, Yuxiang Wang. Leveraging Multi-Modal Information for Cross-Lingual Entity Matching across Knowledge Graphs. *Applied*

Sciences, 2022, 12(19): 10107. (IF=2.838)

Chaoyu Gao, **Tianxing Wu**, Shenqi Jing, Yuxiang Wang. Medical Schema Matching using Knowledge Graph Embedding. *In: Proceedings of the 3rd Workshop on Extraction and Evaluation of Knowledge Entities from Scientific Documents (EEKE)*, 2022: 64-68. (Short Paper)

2021

Jiatao Zhang, **Tianxing Wu**, Guilin Qi. Gaussian Metric Learning for Few-Shot Uncertain Knowledge Graph Completion. *In: Proceedings of the 26th International Conference on Database Systems for Advanced Applications (DASFAA), Part I*, 2021: 256-271. (Full Paper)

Yuxiang Wang, Xiaoliang Xu, Qifan Hong, Jiahui Jin, **Tianxing Wu**. Top-k star queries on knowledge graphs through semantic-aware bounding match scores. *Knowledge-Based Systems (KBS)*, 2021, 213: 106655. (IF=8.038)

Long Zhang, **Tianxing Wu**, Xiuqi Chen, Bingjie Lu, Chongning Na, Guilin Qi. Auto Insurance Knowledge Graph Construction and Its Application to Fraud Detection. *In: Proceedings of the 10th International Joint Conference on Knowledge Graphs (IJCKG)*, 2021: 64-70. (Full Paper)

Luo Fei, **Tianxing Wu**, Arijit Khan. Online Updates of Knowledge Graph Embedding. *In: Proceedings of the 10th International Conference on Complex Networks and Their Applications (COMPLEX NETWORKS), Volume 2*, 2021: 523-535. (Full Paper)

Yike Wu, Yipeng Zhu, Jingchen Li, Chengye Zhang, Tianling Gong, Xiyuan Du, **Tianxing Wu**. Unmanned Aerial Vehicle Knowledge Graph Construction with SpERT. *In: Proceedings of the 6th China Conference on Knowledge Graph and Semantic Computing (CCKS), Evaluation Track*, 2021: 151-159. (Full Paper)

2020

Tianxing Wu, Haofen Wang, Cheng Li, Guilin Qi, Xing Niu, Meng Wang, Lin Li, Chaomin Shi. Knowledge graph construction from multiple online encyclopedias. *World Wide Web-Internet and Web Information Systems (WWWJ)*, 2020, 23(5): 2671-2698. (IF=2.892)

Yuxiang Wang, Arijit Khan, **Tianxing Wu**, Jiahui Jin, Haijiang Yan. Semantic Guided and Response Times Bounded Top-k Similarity Search over Knowledge Graphs. *In: Proceedings of the 36th IEEE International Conference on Data Engineering (ICDE)*, 2020: 445-456. (Full Paper)

盛泳潘, 付雪峰, 吴天星. 基于开放域抽取的多文档概念图构建研究. *计算机应用研究*, 2020, 37(01): 19-25.

2019

Tianxing Wu, Guilin Qi, Bin Luo, Lei Zhang, Haofen Wang. Language-Independent

Type Inference of the Instances from Multilingual Wikipedia. *International Journal on Semantic Web and Information Systems (IJSWIS)*, 2019, 15(2): 22-46. (IF=1.833)

Bing Liu, Huan Gao, Guilin Qi, Shangfu Duan, **Tianxing Wu**, Meng Wang. Adversarial Discriminative Denoising for Distant Supervision Relation Extraction. In: *Proceedings of the 24th International Conference on Database Systems for Advanced Applications (DASFAA), Part III*, 2019: 282-286. (Short Paper)

Yongpan Sheng, Meng Wang, **Tianxing Wu**, Han Xu. Adaptive Local Learning Regularized Nonnegative Matrix Factorization for Data Clustering. *Applied Intelligence*, 2019, 49(6): 2151-2168. (IF=2.882)

Bing Liu, Guilin Qi, Lu Pan, Shangfu Duan, **Tianxing Wu**. Incorporating Human Knowledge in Neural Relation Extraction with Reinforcement Learning. In: *Proceedings of International Joint Conference on Neural Networks (IJCNN)*, 2019. (Full Paper)

Yongpan Sheng, **Tianxing Wu**, Xin Wang: Incorporating Term Definitions for Taxonomic Relation Identification. In: *Proceedings of the 9th Joint International Semantic Technology Conference (JIST)*, 2019: 1-17. (Full Paper)

Lei Zhang, **Tianxing Wu**, Liang Xu, Meng Wang, Guilin Qi, Harald Sack. Emerging Entity Discovery Using Web Sources. In: *Proceedings of the 4th China Conference on Knowledge Graph and Semantic Computing (CCKS)*, 2019: 175-184.

Mengyi Zhang, **Tianxing Wu**, Qiu Ji, Guilin Qi. Mining Hypernym-Hyponym Relations from Social Tags via Tag Embedding. In: *Proceedings of the 5th International Conference on Artificial Intelligence and Security (ICAIS)*, 2019: 319-328. (Short Paper)

2018

Tianxing Wu, Haofen Wang, Guilin Qi, Jiangang Zhu, Tong Ruan. On building and publishing Linked Open Schema from social Web sites. *Journal of Web Semantics (JWS)*, 2018, 51: 39-50. (IF=2.429)

Tianxing Wu, Guilin Qi, Cheng Li, Meng Wang. A Survey of Techniques for Constructing Chinese Knowledge Graphs and Their Applications. *Sustainability*, 2018, 10(9): 3245. (IF=2.592)

Kang Xu, Guilin Qi, Junheng Huang, **Tianxing Wu**, Xuefeng Fu. Detecting bursts in sentiment-aware topics from social media. *Knowledge-Based Systems (KBS)*, 2018, 21(2): 443-461. (IF=4.396)

Qiu Ji, Guilin Qi, Huan Gao, **Tianxing Wu**. Survey on Schema Induction from Knowledge Graphs. In: *Proceedings of the 3rd China Conference on Knowledge Graph and Semantic Computing (CCKS)*, 2018: 136-142. (Short Paper)

2017

Tianxing Wu, Lei Zhang, Guilin Qi, Xuan Cui, Kang Xu. Encoding Category

Correlations into Bilingual Topic Modeling for Cross-Lingual Taxonomy Alignment. *In: Proceedings of the 16th International Semantic Web Conference (ISWC), Part I, 2017: 728-744. (Full Paper)*

Kang Xu, Guilin Qi, Junheng Huang, **Tianxing Wu**. Incorporating Wikipedia concepts and categories as prior knowledge into topic models. *Intelligent Data Analysis (IDA), 2017, 21(2): 443-461. (IF=0.772)*

Tianxing Wu, Du Zhang, Lei Zhang, Guilin Qi. Cross-Lingual Taxonomy Alignment with Bilingual Knowledge Graph Embeddings. *In: Proceedings of the 7th Joint International Semantic Technology Conference (JIST), 2017: 251-258. (Short Paper)*

Tianxing Wu, Cong Gao, Guilin Qi, Lei Zhang, Chuanqi Dong, He Liu, Du Zhang. KG-Buddhism: The Chinese Knowledge Graph on Buddhism. *In: Proceedings of the 7th Joint International Semantic Technology Conference (JIST), 2017: 259-267. (Short Paper)*

Kang Xu, Feng Liu, **Tianxing Wu**, Sheng Bi, Guilin Qi. A Fast and Effective Framework for Lifelong Topic Model with Self-learning Knowledge. *In: Proceedings of the 16th China National Conference on Computational Linguistics (CCL), 2017: 147-158. (Full Paper)*

Kang Xu, Junheng Huang, **Tianxing Wu**. A Sentiment and Topic Model with Timeslice, User and Hashtag for Posts on Social Media. *In: Proceedings of the 2nd China Conference on Knowledge Graph and Semantic Computing (CCKS), 2017: 59-65. (Short Paper)*

漆桂林, 高桓, 吴天星. 知识图谱研究进展. *情报工程*, 2017, 3(1):004-025

2016

Tianxing Wu, Guilin Qi, Haofen Wang, Kang Xu, Xuan Cui. Cross-Lingual Taxonomy Alignment with Bilingual Biterm Topic Model. *In: Proceedings of the 30th AAAI Conference on Artificial Intelligence (AAAI), 2016: 287-293. (Full Paper)*

Kang Xu, Guilin Qi, Junheng Huang, **Tianxing Wu**. A Joint Model for Sentiment-Aware Topic Detection on Social Media. *In: Proceedings of 22nd European Conference on Artificial Intelligence (ECAI), 2016: 238-346. (Full Paper)*

Tianxing Wu, Shengjia Yan, Zhixin Piao, Liang Xu, Ruiming Wang, Guilin Qi. Entity Linking in Web Tables with Multiple Linked Knowledge Bases. *In: Proceedings of the 6th Joint International Semantic Technology Conference (JIST), 2016: 239-253. (Full Paper)*

2014

Haofen Wang, **Tianxing Wu**, Guilin Qi, Ruan Tong. On Publishing Chinese Linked Open Schema. *In: Proceedings of the 13th International Semantic Web Conference (ISWC), Part I, 2014: 293-308. (Full Paper)*

Tianxing Wu, Shaowei Ling, Guilin Qi, Haofen Wang. Mining Type Information from Chinese Online Encyclopedias. In: *Proceedings of the 4th Joint International Semantic Technology Conference (JIST)*, 2014: 213-229. (Full Paper)

Tianxing Wu, Guilin Qi, Haofen Wang. Zhishi.schema Explorer: A Platform for Exploring Chinese Linked Open Schema. In: *Proceedings of the 7th Chinese Semantic Web Symposium and 2nd Chinese Web Science Conference (CSWS)*, 2014: 174-181. (Demo Paper)

Yanfang Ma, Huan Gao, **Tianxing Wu**, Guilin Qi. Learning Disjointness Axioms With Association Rule Mining and Its Application to Inconsistency Detection of Linked Data. In: *Proceedings of the 7th Chinese Semantic Web Symposium and 2nd Chinese Web Science Conference (CSWS)*, 2014: 29-41. (Full Paper)

Patents in China

[1] A Machine Learning Based Approach for Matching Ontologies in Literature Domain, Inventors: **Tianxing Wu**, Guilin Qi, Bin Luo, Bin Lu, Application Number: 201410799922.3. (granted)

[2] A Machine Learning Based Approach for Constructing Social Network Ontologies, Inventors: **Tianxing Wu**, Cheng Li, Guilin Qi, Application Number: 201610115254.7. (granted)

[3] A Table Entity Linking Approach Based on Multiple Knowledge Bases, Inventors: **Tianxing Wu**, Guilin Qi, Taiyun Liu, Shenjia Yan, Zhixin Piao, Liang Xu, Ruiming Wang, Application Number: 201610920031.8. (granted)

[4] An Instance Matching Approach based on Rules, Inventors: **Tianxing Wu**, Lin Li, Guilin Qi, Application Number: 202110320754.5. (under review)

[5] A Paired Entity Disambiguation Approach on Web Tables, Inventors: **Tianxing Wu**, Lin Li, Guilin Qi, Application Number: 202110720148.2. (under review)

[6] An Entity Alignment Approach based Multiple Entity Contexts, Inventors: **Tianxing Wu**, Lin Li, Guilin Qi, Application Number: 202110346496.8. (granted)

[7] A Root Cause Tracing Approach for Distributed System Faults based on Knowledge Graph Techniques, Inventors: **Tianxing Wu**, Anyuan Luo, Guilin Qi, Sudong Fang, Application Number: 202110722163.0. (under review)

[8] A Machine Learning Based Approach for Cross-Lingual Taxonomy Alignment, Inventors: Yishu Fang, Guilin Qi, **Tianxing Wu**, Bin Lu, Application Number: 201510105414.5. (granted)

- [9] A Cross-Lingual Taxonomy Matching Method Based on Topic Model, Inventors: Xuan Cui, Guilin Qi, **Tianxing Wu**, Application Number: 201710441927.2. (granted)
- [10] A Dynamic Knowledge Graph Updating Approach, Inventors: Guilin Qi, Cheng Li, Lin Li, **Tianxing Wu**, Application Number: 201810627957.7. (under review)
- [11] A Dynamic Knowledge Graph Representation Learning Approach under Dynamic Scenarios, Inventors: Chen Li, **Tianxing Wu**, Guilin Qi, Application Number: 202010972901.2. (under review)
- [12] A Semantic Matching Model for Knowledge Points Location, Inventors: Yike Wu, **Tianxing Wu**, Lin Li, Chaoyu Gao, Guilin Qi, Application Number: 202110319217.9. (under review)
- [13] A Machine Learning Based Approach and System for Predicting the Incidence of Hepatitis E, Inventors: Shutong Zhu, Minghao Wang, **Tianxing Wu**, Application Number: 202211607089.9. (under review)
- [14] An Early Risk Warning Approach for Chronic Disease Complications based on Few-Shot Deep Learning, Inventors: Jingyi Xu, **Tianxing Wu**, Haoyu Dai, Application Number: 202310657353.8. (under review)

Service Activities

Academic Organizations

CCF Information System Committee Executive Member,
 CIPS Language and Knowledge Computing Committee Member,
 CCF YOCSEF Nanjing Academic Committee Member (Vice President, 2023-2024;
 Member, 2022-),
 JSAI Knowledge Engineering and Intelligent Service Committee Member,
 JSAI Natural Language Processing Committee Member.

Conferences

- 2024 **Senior Program Committee Member** of IJCAI,
Program Committee Member of ACL, TheWebConf (WWW), SIGKDD, ECAI,
 IEA/AIE.
- 2023 **CCKS Evaluation Chair**,
Senior Program Committee Member of IJCAI,
Program Committee Member of ACL, ISWC, EMNLP, ECAI, CSCWD,
 IJCKG, CCKS, IEA/AIE, WISA.
External Reviewer of TheWebConf (WWW), NeurIPS.
- 2022 **CCKS Resource Track Chair**,
Program Committee Member of AACL, IJCAI, EMNLP, IJCKG, CCKS.
- 2021 **CCKS Poster & Demo Chair**,

- Program Committee Member** of AAAI, IJCAI, IJCKG, CCKS, PIC,
External Reviewer of TheWebConf (WWW).
- 2020 **Program Committee Member** of IJCAI, ECAI, ISWC, PAKDD, JIST,
External Reviewer of SIGMOD, VLDB, TheWebConf (WWW), CIKM.
- 2019 **Program Committee Member** of JIST,
External Reviewer of VLDB, TheWebConf (WWW), ISWC, DSAA.
- 2018 **External Reviewer** of IJCAI, ICDM.
- 2017 **External Reviewer** of AAAI, IJCAI.
- 2016 **External Reviewer** of AAAI, IJCAI, WWW, ISWC, JIST.
- 2015 **External Reviewer** of AAAI, WWW, ISWC, ESWC, JIST.
- 2014 **External Reviewer** of ISWC, EKAW, CSWS.

Journals

Guest Editor:

- 2023 Applied Sciences: Special Issue "New Advances for Open-Domain Information Mining in Theories and Applications".
- 2022 Mathematics: Special Issue "Mathematical Computation in Knowledge Graph: Theories, Techniques, and Applications".

Editorial Board Member of International Journal on Semantic Web and Information Systems (IJSWIS), Data Intelligence (DI).

- 2024 **Reviewer** of IEEE Transactions on Knowledge and Data Engineering (TKDE), ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP), Knowledge-based Systems (KBS), International Journal on Semantic Web and Information Systems (IJSWIS).
- 2023 **Reviewer** of IEEE Transactions on Knowledge and Data Engineering (TKDE), World Wide Web-Internet and Web Information Systems (WWWJ), ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP), Knowledge-based Systems (KBS), Applied Intelligence (APIN), International Journal on Semantic Web and Information Systems (IJSWIS), Neural Processing Letters, Chinese Journal of Computers (计算机学报), Journal of Computer Research and Development (计算机研究与发展).
- 2022 **Reviewer** of Journal of Web Semantics (JWS), Knowledge and Information Systems (KAIS), Information Processing & Management (IPM), Knowledge-based Systems (KBS), Applied Intelligence (APIN), Engineering Applications of Artificial Intelligence (EAAI), International Journal on Semantic Web and Information Systems (IJSWIS), Aslib Journal of Information Management (AJIM), Scientometrics (SCIM), Heritage Science, Data Intelligence (DI), Intelligent Computing, Journal of Software (软件学报).

- 2021 **Reviewer** of Journal of Web Semantics (JWS), Knowledge-based Systems (KBS), Applied Intelligence (APIN), International Journal on Semantic Web and Information Systems (IJSWIS), Data Intelligence (DI), Journal of Software (软件学报).
- 2020 **Reviewer** of IEEE Transactions on Knowledge and Data Engineering (TKDE), ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP), Knowledge-based Systems (KBS), Future Generation Computer Systems (FGCS), Applied Intelligence (APIN), Data Intelligence (DI), Information.
- 2019 **Reviewer** of Knowledge-based Systems (KBS), Concurrency and Computation: Practice and Experience (CCPE), International Journal of Cognitive Informatics and Natural Intelligence (IJCINI), Information,
External Reviewer of Information Sciences (IS).
- 2018 **Reviewer** of Knowledge-based Systems (KBS), International Journal on Semantic Web and Information Systems (IJSWIS),
External Reviewer of Journal of Web Semantics (JWS).
- 2017 **Reviewer** of International Journal on Semantic Web and Information Systems (IJSWIS), Journal of Software (软件学报).
- 2016 **External Reviewer** of Journal of Web Semantics (JWS).
- 2015 **External Reviewer** of Journal of Web Semantics (JWS).

Workshops

- 2024 **Co-Chair** of LLM+KG, International Workshop on Data Management Opportunities in Unifying Large Language Models + Knowledge Graphs (co-located with VLDB 2024),
Program Committee Member of the Joint Workshop of the 5th Extraction and Evaluation of Knowledge Entities from Scientific Documents (EEKE2024) and the 4th AI + Informetrics (AII2024) (co-located with iConference 2024).
- 2023 **Program Committee Member** of the Joint Workshop of the 4th Extraction and Evaluation of Knowledge Entities from Scientific Documents (EEKE 2023) and the 3rd AI + Informetrics (AII 2023) (co-located with JCDL 2023).
- 2022 **Program Committee Member** of EEKE 2022, the 3rd Workshop on Extraction and Evaluation of Knowledge Entities from Scientific Documents (co-located with JCDL 2022).
- 2021 **Program Committee Member** of EEKE 2021, the 2nd Workshop on Extraction and Evaluation of Knowledge Entities from Scientific Documents (co-located with JCDL 2021).
- 2020 **Program Committee Member** of GRADES-NDA 2020, the 3rd Joint International Workshop on Graph Data Management Experiences & Systems and Network Data Analytics (co-located with SIGMOD 2020).

- 2019 **Program Committee Member** of GRADES-NDA 2019, the 2nd Joint International Workshop on Graph Data Management Experiences & Systems and Network Data Analytics (co-located with SIGMOD 2019).
- 2018 **Program Committee Member** of BigGraphs 2018, the 5th International Workshop on High Performance Big Graph Data Management, Analysis, and Mining (co-located with IEEE BigData 2018).

Teaching

Undergraduate Courses

- **Instructor**, Knowledge Engineering, Southeast University, China
- **Instructor**, Knowledge Graph and Applications, Southeast University, China
- **Instructor**, Knowledge Engineering Practice, Southeast University, China
- **Teaching Assistant**, Introduction to Databases, NTU, Singapore

Current and Former Supervised Students

Master Students

2023

- Shilin Chen (AI-based Blood Pressure Prediction)
- Yunchang Liu (Geometric Knowledge Graph Embedding)
- Wei Li (Uncertain Knowledge Graph Construction)
- Lizhe Cao (AI-based Social Science Analysis)
- Hangyu Sha (LLM for Knowledge Graph Reasoning)

2022

- Jingting Wang (Uncertain Knowledge Graph Representation Learning) (Paper in CCKS 2022 (Best Paper Award))
- Feiyue Wu (Medication Recommendation) (Paper in ISWC 2023)

2021

- Yilin Chen (Rule Mining and Reasoning) (Paper in CCKS 2022)
- Xudong Cao (Knowledge Graph Construction) (Paper in ISWC 2023, Data Intelligence 2023; ISWC 2023 Student Travel Award)
- Yipeng Zhu (Dialogue System) (Paper in CCKS 2021, 2022; ISWC 2023)

2020

- Chaoyu Gao (Knowledge Graph Completion) (Paper in EEKE 2022, Applied Sciences 2022) (Next Position: Civil Servant, The Organization Department of Jiangsu Provincial Government)

Undergraduate Students

2019

▫ Tianling Gong (Medical Knowledge Extraction) (Paper in ISWC 2023) (Next Position: Master Student, Boston University)

2018

▫ Minghao Wang (Infectious Disease Prediction) (Paper in Front. Public Health 2022, Epidemiology & Infection 2022) (Next Position: Master Student, The Hong Kong University of Science and Technology)

Competitions

2023

▫ The First Prize of the 14th Competition of Chinese College Students Service Outsourcing Innovation and Entrepreneurship.

supervised students: Jingting Wang, Guitao Wang, Feiyue Wu, Jingyi Xu, Shutong Zhu

2022

▫ Rank the Third in the CCKS 2022 Evaluation Task: Foreign Military Unmanned System Knowledge Graph Construction.

supervised students: Yilin Chen, Jingting Wang, Shutong Zhu, Haoyu Dai, Yuang Gu, Jingyi Xu, Yipeng Zhu

▫ The Excellent Team of the Future Cup Activists of Artificial Intelligence & Robotic Projects (Knowledge Graph Championship).

supervised students: Yipeng Zhu, Xudong Cao, Feiyue Wu, Tianling Gong, Jingyi Xu

2021

▫ The Third Prize of the 12th Competition of Chinese College Students Service Outsourcing Innovation and Entrepreneurship.

supervised students: Minghao Wang, Yike Wu, Jingyi Xu, Chaoyu Gao, Xinnan Guo

▫ Rank the Second in the CCKS 2021 Evaluation Task: Unmanned Aerial Vehicle Knowledge Graph Construction: Construction Phase;

Rank the Third in the CCKS 2021 Evaluation Task: Unmanned Aerial Vehicle Knowledge Graph Construction: Application Phase.

supervised students: Yike Wu, Yipeng Zhu, Tianling, Gong, Chenye Zhang, Jingchen Li, Xiyuan Du

▫ 3 teams won the Second Prizes of the Future Cup Activists of Artificial Intelligence & Robotic Projects (Knowledge Graph Championship).

supervised students:

team1: Xiangtian Xue, Qianyi Zhu, Bin Zhu;

team2: Yilun Kong, Xinlong Yin, Xinjian Yin, Chenhao Li;

team3: Yike Wu, Yanglong He, Yintai Li, Xiyuan Du, Jingchen Li

One team won the Third Prize of the Future Cup Activists of Artificial Intelligence & Robotic Projects (Knowledge Graph Championship).

supervised students: Yichen Liu, Jiteng Zhao, Xin Lin