TIANWEN JIANG, PH.D. CANDIDATE

Harbin Institute of Technology
K1226 Technology and Innovation Building (TIB)
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RESEARCH INTEREST

Information Extraction, Knowledge Graph, Natural Language Processing.

EXPERIENCE

Visiting Ph.D. Student, **University of Notre Dame, USA** 2018.09 - 2019.09
Group: *Data Mining towards Decision Making*
Advisor: *Meng Jiang*

Research Intern, **Microsoft Research Asia, China** 2017.12 - 2018.04
Group: *Knowledge Computing*
Mentor: *Chin-Yew Lin, Principal Research Manager at Microsoft Research Asia*

EDUCATION

Ph.D. candidate, **Harbin Institute of Technology** 2016.9 - Present
Major: Computer Science
Advisor: Bing Qin, Professor in Harbin Institute of Technology

B.E., **Harbin Institute of Technology** 2012.9 - 2016.7
Major: Computer Science, Score: 86.9 (rank top 15%)
Dissertation: Representation Learning for Open-Domain Chinese Knowledge Base
Advisor: Bing Qin, Professor in Harbin Institute of Technology

PUBLICATIONS

[J2] **Tianwen Jiang**, Qingkai Zeng, Tong Zhao, Bing Qin, Ting Liu, Nitesh Chawla, Meng Jiang, Biomedical Knowledge Graphs Construction from Conditional Statements. *the IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB), 2020.* | IF= 2.896

[C8] **Tianwen Jiang,** Tong Zhao, Bing Qin, Ting Liu, Nitesh V. Chawla, Meng Jiang. The Role of "Condition": A Novel Scientific Knowledge Graph Representation and Construction Model. *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), 2019.* | CCF A, Acceptance Rate= 14.2%

[C7] **Tianwen Jiang**, Tong Zhao, Bing Qin, Ting Liu, Nitesh V. Chawla, Meng Jiang. Multi-Input Multi-Output Sequence Labeling for Joint Extraction of Fact and Condition Tuples from Scientific Text. *2019 Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing (EMNLP), 2019.* | CCF B, Acceptance Rate= 23.8%

[C6] **Tianwen Jiang**[#], Zhihan Zhang[#], Tong Zhao, Bing Qin, Ting Liu, Nitesh Chawla, Meng Jiang. CTGA: Graph-based Biomedical Literature Search. *2019 IEEE International Conference on Bioinformatics & Biomedicine (BIBM) 2019.* | CCF B, Acceptance Rate= 18%

[C5] Daheng Wang, **Tianwen Jiang**, Nitesh V. Chawla, Meng Jiang. TUBE: Embedding Behavior Outcomes for Predicting Success. *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), 2019.* | CCF A, Acceptance Rate= 14.2%

[W4] **Tianwen Jiang**, Tong Zhao, Bing Qin, Ting Liu, Nitesh V. Chawla, Meng Jiang. Constructing Information-Lossless Biological Knowledge Graphs from Conditional Statements. *International Workshop on Data Mining in Bioinformatics (BIOKDD), 2019.*

[Preprint] **Tianwen Jiang**, Tong Zhao, Bing Qin, Ting Liu, Nitesh V. Chawla, Meng Jiang. Canonicalizing Open Knowledge Bases with Multi-Layered Meta-Graph Neural Network. *Preprint arXiv:2006.09610, 2020.*

[Preprint] **Tianwen Jiang**, Sendong Zhao, Jing Liu, Jin-Ge Yao, Ming Liu, Bing Qin, Ting Liu, Chin-Yew Lin. Towards Time-Aware Distant Supervision for Relation Extraction. *Preprint arXiv:1903.03289, 2019.*

[Preprint] **Tianwen Jiang**, Ming Liu, Bing Qin, Ting Liu. Attribute Acquisition in Ontology based on Representation Learning of Hierarchical Classes and Attributes. *Preprint arXiv:1903.03282, 2019.*

[C4] **Tianwen Jiang**, Ming Liu, Bing Qin, Ting Liu. Constructing Semantic Hierarchies via Fusion Learning Architecture. *China Conference on Information Retrieval (CCIR), Springer, Cham, 2017: 136-148.*

[J1] **Tianwen Jiang**, Bing Qin, Ting Liu. Open Domain Knowledge Reasoning for Chinese Based on Representation Learning. *Journal of Chinese Information Processing (JCIP), 2018, 32 (3), 34-41.*

[C3] Qingkai Zeng, Wenhao Yu, Mengxia Yu, **Tianwen Jiang**, Tim Weninger, Meng Jiang. Tri-Train: Automatic Pre-fine Tuning between Pre-training and Fine-tune Training for SciNER. *Findings of Empirical Methods on Natural Language Processing (EMNLP), 2020.*

[C2] Tong Zhao, Chuchen Deng, Kaifeng Yu, **Tianwen Jiang**, Daheng Wang, Meng Jiang. Error-bounded Graph Anomaly Loss for GNNs. *29th ACM International Conference on Information and Knowledge Management (CIKM), 2020. | CCF B, Acceptance Rate= 21%*

[W3] Daheng Wang, Zhihan Zhang, Yihong Ma, Tong Zhao, **Tianwen Jiang**, Nitesh V. Chawla, Meng Jiang. Learning Attribute-Structure Co-Evolutions in Dynamic Graphs. *Workshop on Deep Learning on Graphs (DLG-KDD) at ACM SIGKDD International Conference on KDD, 2020.*

[W2] Tong Zhao, Chuchen Deng, Kaifeng Yu, **Tianwen Jiang**, Daheng Wang, Meng Jiang. GNN-based Graph Anomaly Detection with Graph Anomaly Loss. *Workshop on Deep Learning on Graphs (DLG-KDD) at ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), 2020.*

[W1] Yihong Ma, Qingkai Zeng, **Tianwen Jiang**, Liang Cai, Meng Jiang. A Study of Person Entity Extraction and Profiling from Classical Chinese Historiography. *2nd International Workshop on Entity Retrieval (EYRE '19) co-located with CIKM, 2019.*

[C1] Shen Liu, **Tianwen Jiang**, Bing Qin, Ting Liu. Learning Type Hierarchies for Open-domain Named Entities via Word Embeddings based on Character Information. *Proceeding of The China Conference on Knowledge Graph and Semantic Computing, (CCKS), 2016.*

AWARDS

National Scholarship for Graduate students	October 2019
IEEE BIBM 2019 Travel Award	November 2019
The China Computer Federation Outstanding Undergraduate Award	October 2016
Outstanding Graduates from Harbin Institute of Technology	July 2016
People's Scholarship (four times)	2013 - 2016
University-level Outstanding Student Cadre	2013
National Scholarship for Encouragement	2013

PROFESSIONAL ACTIVITIES

Reviewer / Second Reviewer

2021   AAAI Conference on Artificial Intelligence (AAAI)

2020   the International Conference on Computational Linguistics (COLING)
         Conference on Empirical Methods in Natural Language Processing (EMNLP)
         the IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)
         Journal of Chinese Information Processing (JCIP)
         AAAI Conference on Artificial Intelligence (AAAI)

2019	Conference on Empirical Methods in Natural Language Processing (EMNLP)
	ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)
	IEEE Transactions on Knowledge and Data Engineering (TKDE)
	International Joint Conference on Artificial Intelligence (IJCAI)
2018	Conference on Empirical Methods in Natural Language Processing (EMNLP)
	ACM International Conference on Knowledge Management (CIKM)
	China Conference on Knowledge Graph and Semantic Computing (CCKS)
	China National Conference on Computational Linguistics (CCL)

CAMPUS EXPERIENCE

Minister of Graduate Student Union of HIT	2016 - 2017
President of HIT Computer Club 110	2014 - 2015
Vice-Minister of Student Union of School of Computer, HIT	2013 - 2014