XIANG (TOMMY) YUE

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EDUCATION

Ph.D Student	Department of Computer Science and Engineering(CSE), The Ohio State University (OSU), USA Advisor: Prof. Huan Sun	*2018-present*
B.Eng.	School of Computer Science, Wuhan University (WHU), China GPA: 3.79/4.0, Rank: top 1%, Outstanding Graduates Advisor: Prof. Wen Zhang *Thesis: Drug-disease associations mining and study (in Chinese)* *(Excellent Graduation Thesis Award, top 5%)*	*2014-2018*

RESEARCH INTERESTS

- Natural Language Processing: Question Answering, Clinical NLP, Natural Language Generation
- Data Mining: Graph Embedding, Graph Mining, Bioinformatics

SELECTED PUBLICATIONS

(Google Scholar) (Semantic Scholar)

* indicates equal contributions

NLP (Question Answering, Clinical NLP, Natural Language Generation):

[1] **Xiang Yue** and Shuang Zhou, "PHICON: Improving Generalization of Clinical Text De-identification Models via Data Augmentation", *EMNLP 2020 Clinical Natural Language Processing Workshop*

[2] **Xiang Yue**, Bernal Jimenez Gutierrez and Huan Sun, "Clinical Reading Comprehension: A Thorough Analysis of the emrQA Dataset", *The 58th Annual Meeting of the Association for Computational Linguistics* **(ACL 2020, long paper)**

[3] **Xiang Yue***, Xinliang (Frederick) Zhang*, Ziyu Yao, Simon Lin and Huan Sun, "CliniQG4QA: Generating Diverse Questions to Improve Clinical Reading Comprehension on New Contexts", *under review*

[4] Bernhard Kratzwald, **Xiang Yue**, Huan Sun and Stefan Feuerriegel, "Practical Annotation Strategies for Question Answering Datasets ", *arXiv preprint*

Data Mining (Graph Embedding, Graph Mining, Bioinformatics)

[5] **Xiang Yue**, Zhen Wang, Jingong Huang, Srinivasan Parthasarathy, Soheil Moosavinasab, Yungui Huang, Simon Lin, Wen Zhang, Ping Zhang and Huan Sun, "Graph Embedding on Biomedical Networks: Methods, Applications, and Evaluations", ***Bioformatics***, 2020 (Impact Factor: 4.531) **(ESI Highly Cited Paper: top 1% cited paper of its academic field)**

[6] Feng Huang*, **Xiang Yue***, Zhankun Xiong, Zhouxin Yu, Shichao Liu and Wen Zhang, "Tensor decomposition with relational constraints for predicting multiple types of microRNA-disease associations", ***Briefings in Bioinformatics***, 2020 (Impact Factor: 8.990)

[7] Zhen Wang, **Xiang Yue**, Soheil Moosavinasab, Yungui Huang, Simon Lin and Huan Sun, "SurfCon: Synonym Discovery on Privacy-Aware Clinical Data", *The 25th ACM SIGKDD Conference on Knowledge Discovery and Data Mining 2019* **(KDD 2019, research track, oral)**

[8] Wen Zhang, **Xiang Yue**, Guifeng Tang, Wenjian Wu, Feng Huang, Xining Zhang , "SFPEL-LPI: Sequence-based Feature Projection Ensemble Learning for Predicting LncRNA-Protein Interactions", *PLOS Computational Biology*, Dec 2018

[9] Wen Zhang, **Xiang Yue**, Weiran Lin, Wenjian Wu, Ruoqi Liu, Feng Huang, Feng Liu , "Predicting drug-disease associations by using similarity constrained matrix factorization", *BMC Bioinformatics*, June 2018

[10] Wen Zhang, **Xiang Yue**, Feng Huang, Ruoqi Liu, Yanlin Chen, Feng Huang, Chunyang Ruan, "Predicting drug-disease associations and their therapeutic function based on the drug-disease association bipartite network", *Methods*, June 2018

[11] Guangsheng Wu, Juan Liu and **Xiang Yue**, "Prediction of drug-disease associations based on ensemble meta paths and singular value decomposition", *BMC Bioinformatics*, Dec 2018

[12] Wen Zhang, Feng Huang, **Xiang Yue**, Xiaoting Lu, Weitai Yang, Zhishuai Li, and Feng Liu , "Prediction of drug-disease associations and their effects by signed network-based nonnegative matrix factorization",*IEEE Internatinal Conference on Bioinformatics and Biomedicine 2018 (BIBM 2018)*, Dec 2018

[13] Guifeng Tang, Jingwen Shi, Wenjian Wu, **Xiang Yue**, Wen Zhang , "Sequence-based bacterial small RNAs prediction using ensemble learning strategies",*IEEE Internatinal Conference on Bioinformatics and Biomedicine 2017 (BIBM 2017)*, Dec 2018

[14] Wen Zhang, Yanlin Chen, Dingfang Li, **Xiang Yue** , "Manifold regularized matrix factorization for drug-drug interaction prediction",*Journal of Biomedical Informatics*, Nov 2018

[15] Wen Zhang, **Xiang Yue**, Feng Liu, Yanlin Chen, Shikui Tu, Qianlong Qu, Xining Zhang, "A unified frame of predicting side effects of drugs by using linear neighborhood similarity", *BMC Systems Biology*, Dec. 2017

[16] Wen Zhang, **Xiang Yue**, Yanlin Chen, Weiran Lin, Bolin Li, Feng Liu, Xiaohong Li, "Predicting drug-disease associations based on the known association bipartite network"
IEEE Internatinal Conference on Bioinformatics and Biomedicine 2017 (BIBM 2017)

[17] Wen Zhang, Jingwen Shi, Guifeng Tang, Wenjian Wu, **Xiang Yue**, Dingfang Li, "Predicting small RNAs in bacteria via sequence learning ensemble method"
IEEE Internatinal Conference on Bioinformatics and Biomedicine 2017 (BIBM 2017)

ACADEMIC SERVICES

- Program Committee/Reviewer:
  - IEEE Transactions on Knowledge and Data Engineering (TKDE)
  - IEEE Transactions on Neural Networks and Learning Systems
  - Bioinformatics
  - Nature Scientific Reports
  - ACM Transactions on Computing for Healthcare
  - BMC Medical Informatics and Decision Making
  - AMIA 2020
  - BIBM 2018, 2020
- External/Secondary Reviewer: KDD 2020,2019, Neurocomputing, BMC Bioinformatics, BMC Systems Biology

HONORS & AWARDS

- KDD 2019 Student Travel Award *Aug 2019*
- Excellent Graduation Thesis Award of WHU (Scale: 5%) *June 2018*
- Outstanding Graduates of WHU (Scale: 10%) *May 2018*
- LEI JUN Scholarship (Scale: Top 1 Winner of National Scholarship, the highest prize for students in WHU) *2016-2017*
- First Class Scholarship (Scale: 5%), Three Times, WHU *2014-2017*
- Excellent Student (Scale: 5%), Three Times, WHU *2014-2017*
- National Scholarship (Scale: 1%), China *2014-2015*

TALKS

- Predicting drug-disease associations based on machine learning methods, Online Bioinformatics Forum, 06/2018
- Predicting drug-disease associations based on machine learning methods, Wuhan University, 05/2018

TECHNICAL SKILLS

GitHub: https://github.com/xiangyue9607

Computer Languages	Python, MATLAB, JAVA, C/C++, HTML/CSS/JS
Library & Package	scikit-learn, numpy, pytorch, tensorflow
Databases	MySQL, MongoDB, SQLite
Tools	Git