Xinyue Liu

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Employment

Amazon	**Cambridge, MA**
Applied Scientist	2019 -
IBM T. J. Watson Research Center	**Yorktown Heights, NY**
Research Intern	Summer 2018
Worcester Polytechnic Institute	**Worcester, MA**
Research Assistant	2014 - 2018
Hong Kong University of Science &. Technology	**Hong Kong**
Research Assistant	2013 - 2014

Education

2018	**Worcester Polytechnic Institute**
	Ph.D. in Computer Science
2013	**Hong Kong University of Science &. Technology**
	M.Sc. in Information Technology
2012	**University of Electronic Science &. Technology of China**
	B.Eng. in Software Engineering

Publication

(C1). **Xinyue Liu**, Mingda Li, Luoxin Chen, Prashan Wanigasekara, Weitong Ruan, Haidar Khan, Wael Hamza and Chengwei Su. "ASR n-best Fusion Nets". *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP '21)*, June 2021.

(C2). Hang Yin, **Xinyue Liu**, and Xiangnan Kong. "Gaussian Mixture Graphical Lasso with Application to Edge Detection in Brain Networks". *IEEE International Conference on Big Data (BIGDATA '20)*, December 2020.

(C3). Mingda Li, **Xinyue Liu**, Weitong Ruan, Luca Soldaini, Wael Hamza and Chengwei Su. "Multi-task Learning of Spoken Language Understanding by Integrating N-Best Hypotheses with Hierarchical Attention". *International Conference on Computational Linguistics (COLING '20)*, December 2020.

(C4). Luoxin Chen, **Xinyue Liu**, Weitong Ruan, and Jianhua Lu. "Enhance Robustness of Sequence Labelling with Masked Adversarial Training". *Empirical Methods in Natural Language Processing (EMNLP '20)*, November 2020.

(C5). Yao Zhang, Yun Xiang, Xiangnan Kong, **Xinyue Liu** and Yangyong Zhu. "Multi-task Attributed Graphical Lasso". *International Joint Conference on Web and Big Data (APWeb-WAIM '20)*, September 2020.

(C6). Xin Dai, Xiangan Kong, Tian Guo, John Boaz Lee, **Xinyue Liu** and Constance M. Moore. "Recurrent Networks for Guided Multi-Attention Classification". *ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD '20)*, August 2020.

(C7). Luoxin Chen, Weitong Ruan, **Xinyue Liu** and Jianhua Lu. "SeqVAT: Virtual Adversarial Training for Semi-Supervised Sequence Labelling". *Annual Conference of the Association for Computational Linguistics (ACL '20)*, July 2020.

(C8). Yun Xiong, Shaofeng Xu, Keyao Rong, **Xinyue Liu**, Xiangnan Kong, Shanshan Li, Philip Yu and Yangyong Zhu. "Code2Text: Dual Attention Syntax Annotation Networks for Structure-aware Code Translation". *International Conference on Database Systems for Advanced Applications (DASFAA '20)*, May 2020.

(C9). Xin Dai, Xiangnan Kong, **Xinyue Liu** and Constance Moore. "Dual-Attention Recurrent Networks for Affine Registration of Neuroimaging Data". *SIAM International Conference on Data Mining (SDM '20)*, May 2020.

(C10). Mingda Li, Weitong Ruan, **Xinyue Liu**, Luca Soldaini, Wael Hamza, Chengwei Su. "Improving Spoken Language Understanding By Exploiting ASR N-best Hypotheses". arXiv:2001.05284, January 2020.

(C11). Jianjun Luo, **Xinyue Liu** and Xiangnan Kong. "Competitive Opinion Maximization in Social Networks". *IEEE/ACM International Conference on Social Networks Analysis and Mining (ASONAM '19)*, August 2019.

(C12). Thanh Tran, **Xinyue Liu**, Kyumin Lee and Xiangnan Kong. "Signed Distance-based Deep Memory Recommender". *ACM International World Wide Web Conferences (The WebConf '19)*, May 2019.

(C13). **Xinyue Liu**, Xiangnan Kong, Lei Liu and Kuorong Chiang. "Syntax-aware Sequence Generation with Generative Adversarial Networks", *IEEE International Conference on Data Mining (ICDM '18)*, November 2018.

(C14). Hang Yin, **Xinyue Liu** and Xiangnan Kong. "Coherent Graphical Lasso for Brain Network Discovery ", *IEEE International Conference on Data Mining (ICDM '18)*, November 2018.

(C15). **Xinyue Liu**, Xiangnan Kong and Philip S. Yu. "Active Opinion Maximization on Social Networks", *ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD '18)*, August 2018.

(C16). **Xinyue Liu**, Yuanfang Song, Charu Aggarwal, Yao Zhang and Xiangnan Kong. "Item Recommendation with Life Cycles", *IEEE International Conference on Data Mining (ICDM '17)*, November 2017.

(C17). Saket Sathe, Charu Aggarwal, Xiangnan Kong and **Xinyue Liu**. "Kernel-Based Feature Extraction For Collaborative Filtering", *IEEE International Conference on Data Mining (ICDM '17)*, November 2017.

(C18). **Xinyue Liu**, Xiangnan Kong and Philip S. Yu. "Collective Discovery of Brain Networks with Unknown Groups", *International Joint Conference On Neural Networks (IJCNN '17)*, May 2017.

(C19). **Xinyue Liu**, Xiangnan Kong and Ann B. Ragin. "Unified and Contrasting Graphical Lasso for Brain Network Discovery", *SIAM International Conference on Data Mining (SDM '17)*, April 2017.

(C20). Yao Zhang, Yun Xiong, **Xinyue Liu**, Xiangnan Kong and Yangyong Zhu. "Meta-Path Graphical Lasso for Learning Heterogeneous Connectivities", *SIAM International Conference on Data Mining (SDM '17)*, April 2017.

(C21). **Xinyue Liu**, Xiangnan Kong and Yanhua Li. "Collective Traffic Prediction with Partially Observed Traffic History using Location-Based Social Media", *ACM International Conference on Information and Knowledge Management (CIKM '16)*, November 2016.

(C22). **Xinyue Liu**, Charu Aggarwal, Yu-Feng Li, Xiangnan Kong, Xinyuan Sun and Saket Sathe. "Kernelized Matrix Factorization for Collaborative Filtering", *SIAM International Conference on Data Mining (SDM '16)*, April 2016.

Teaching

Spring 2015   **CS2333: Algorithms**
Graduated Teaching Assistant, Worcester Polytechnic Institute, USA

Service

Journal Reviewer	TKDD
External Reviewer	TKDE, TIST, TPAMI, KDD ('15 - '18), ICML ('18), ICDM ('15,'17), SDM ('17, '18), CIKM ('15 - '17), NIPS ('16 - '18), IJCAI ('15, '17), AAAI ('17), AISTAT ('17, '18), ICDE ('17), ASONAM ('17), BigData('18), PAKDD ('18)
Conference Volunteer	SDM '16, ICDM' 17, KDD '18