

Xinyue Liu

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Education

2018 **Worcester Polytechnic Institute**
(expected) *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

Employment

IBM T. J. Watson Research Center <i>Research Intern</i>	Yorktown Heights, NY Summer 2018
Worcester Polytechnic Institute <i>Research Assistant</i>	Worcester, MA 2014 - 2018
Hong Kong University of Science & Technology <i>Research Assistant</i>	Hong Kong 2013 - 2014

Research Interests

- Deep Learning: (C1). (M12). (M13). (M14). (M15). (M17).
- Recommender Systems: (C3). (C4). (C5). (C10). (M15).
- Graph Mining: (C1). (C3). (C6). (C7). (C8). (C9). (M16). (M18).
- Biological Signals Analysis & Mining: (C2). (C6). (C7). (M11). (M17). (M18).

Publication

- (C1). **Xinyue Liu**, Xiangnan Kong, Lei Liu, Kuorong Chiang. “[Syntax-aware Sequence Generation with Generative Adversarial Networks](#)”, *IEEE International Conference on Data Mining (ICDM '18)*, November 2018.
- (C2). Hang Yin, **Xinyue Liu**, Xiangnan Kong. “Coherent Graphical Lasso for Brain Network Discovery”, *IEEE International Conference on Data Mining (ICDM '18)*, November 2018.
- (C3). **Xinyue Liu**, Xiangnan Kong, Philip S. Yu. “[Active Opinion Maximization on Social Networks](#)”, *ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD '18)*, August 2018.
- (C4). **Xinyue Liu**, Yuanfang Song, Charu Aggarwal, Yao Zhang, Xiangnan Kong. “[Item Recommendation with Life Cycles](#)”, *IEEE International Conference on Data Mining (ICDM '17)*, November 2017.
- (C5). 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.
- (C6). **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.

- (C7). **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.
- (C8). Yao Zhang, Yun Xiong, **Xinyue Liu**, Xiangnan Kong, Yangyong Zhu. “[Meta-Path Graphical Lasso for Learning Heterogeneous Connectivities](#)”, *SIAM International Conference on Data Mining (SDM '17)*, April 2017.
- (C9). **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.
- (C10). **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.

Manuscripts

- (M11). Hang Yin, **Xinyue Liu**, Xiangnan Kong. “Mixture Gaussian Graphical Lasso for Brain Network Discovery ”, (submitted to SDM' 19)
- (M12). Shaofeng Xu, Yun Xiong, **Xinyue Liu**, Xiangnan Kong, Yangyong Zhu. “Translating Source Code to Text by Exploiting Abstract Syntax Tree”. (submitted to SDM '19)
- (M13). Shaofeng Xu, Yun Xiong, **Xinyue Liu**, Xiangnan Kong, Yangyong Zhu. “Translating Bipartite Graph Links to Text”. (submitted to SDM '19)
- (M14). Thanh Tran, **Xinyue Liu**, Kyumin Lee, Xiangnan Kong. “Deep Metric-based Memory Recommender”. (submitted to AAAI '19)
- (M15). **Xinyue Liu**, Charu Aggarwal, Saket Sathe, Udayan Khurana, Horst Samulowitz, Xiangnan Kong. “Deep Recurrent Autoencoder for Temporal Collaborative Filtering”. (submitted to WSDM '19)
- (M16). Jianjun Luo, **Xinyue Liu**, Xiangnan Kong. “Competitive Opinion Maximization in Social Networks”. (submitted to WSDM '19)
- (M17). Xin Dai, Xiangnan Kong, **Xinyue Liu**, Constance Moore. “Dual-Attention Recurrent Networks for Affine Registration of Neuroimaging Data”. (submitted to AAAI '19)
- (M18). Yao Zhang, Yun Xiang, Xiangnan Kong, **Xinyue Liu**, Yangyong Zhu. “Multi-task Attributed Graphical Lasso”. (submitted to AAAI '19)

Teaching

FEB.- MAY., 2015 **CS2333: Algorithms**
 Graduated Teaching Assistant, Worcester Polytechnic Institute, USA

Awards

JUN. 2018 ACM KDD Travel Award
 OCT. 2017 WPI Graduate Student Travel Award
 OCT. 2017 IEEE ICDM Travel Award
 MAR. 2017 IEEE/ACM IJCNN Travel Award
 MAR. 2017 WPI Graduate Student Travel Award
 OCT. 2016 WPI Graduate Student Travel Award
 AUG. 2016 ACM CIKM Travel Award
 MAY. 2016 SIAM SDM Travel Award

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