

# Xinyue Liu

☎ +1-508-873-4348 | ✉ [xliu4@wpi.edu](mailto:xliu4@wpi.edu) | 🌐 <http://cinv.ro>

## Employment

### Amazon

*Applied Scientist*

### IBM T. J. Watson Research Center

*Research Intern*

### Worcester Polytechnic Institute

*Research Assistant*

### Hong Kong University of Science & Technology

*Research Assistant*

### Cambridge, MA

2019 -

### Yorktown Heights, NY

Summer 2018

### Worcester, MA

2014 - 2018

### Hong Kong

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*

## Research Interests

- Deep Learning: (C1). (C2). (M15). (M16). (M18).
- Recommender Systems: (C1). (C4). (C5). (C6). (C11). (M16).
- Graph Mining: (C2). (C4). (C7). (C8). (C9). (C10). (M17). (M19).
- Biological Signals Analysis & Mining: (C3). (C7). (C8). (M14). (M18). (M19).

## Publication

- (C1). Thanh Tran, **Xinyue Liu**, Kyumin Lee, Xiangnan Kong. "Signed Distance-based Deep Memory Recommender". *ACM International World Wide Web Conferences (The WebConf '19)*, May 2019.
- (C2). **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.
- (C3). Hang Yin, **Xinyue Liu**, Xiangnan Kong. "Coherent Graphical Lasso for Brain Network Discovery", *IEEE International Conference on Data Mining (ICDM '18)*, November 2018.
- (C4). **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.
- (C5). **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.
- (C6). 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.

- (C7). **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.
- (C8). **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.
- (C9). 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.
- (C10). **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.
- (C11). **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

- (M12). Xin Dai, Xiangnan Kong, **Xinyue Liu**, Constance Moore. "Recurrent Networks for Guided Multi-Attention Classification".
- (M13). Hang Yin, Xiangnan Kong, **Xinyue Liu**. "Multi-State Brain Network Discovery".
- (M14). Hang Yin, **Xinyue Liu**, Xiangnan Kong. "Mixture Gaussian Graphical Lasso for Brain Network Discovery".
- (M15). Shaofeng Xu, Yun Xiong, **Xinyue Liu**, Xiangnan Kong, Yangyong Zhu. "Translating Source Code to Text by Exploiting Abstract Syntax Tree".
- (M16). **Xinyue Liu**, Charu Aggarwal, Saket Sathe, Udayan Khurana, Horst Samulowitz, Xiangnan Kong. "Deep Recurrent Autoencoder for Temporal Collaborative Filtering".
- (M17). Jianjun Luo, **Xinyue Liu**, Xiangnan Kong. "Competitive Opinion Maximization in Social Networks".
- (M18). Xin Dai, Xiangnan Kong, **Xinyue Liu**, Constance Moore. "Dual-Attention Recurrent Networks for Affine Registration of Neuroimaging Data".
- (M19). Yao Zhang, Yun Xiang, Xiangnan Kong, **Xinyue Liu**, Yangyong Zhu. "Multi-task Attributed Graphical Lasso".

## Teaching

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

## Awards

Nov. 2018 IEEE ICDM Travel Award  
Oct. 2018 WPI Graduate Student Travel Award  
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

<b>Journal Reviewer</b>	TKDD
<b>External Reviewer</b>	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)
<b>Conference Volunteer</b>	SDM '16, ICDM' 17, KDD '18