

# Xinyue Liu

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

## 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*

## Employment

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

## Research Interests

- Deep Learning: (C1). (C2). (M13). (M14). (M16).
- Recommender Systems: (C1). (C4). (C5). (C6). (C11). (M14).
- Graph Mining: (C2). (C4). (C7). (C8). (C9). (C10). (M15). (M17).
- Biological Signals Analysis & Mining: (C3). (C7). (C8). (M12). (M16). (M17).

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

## 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

<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