

Xinyue LIU

Email: xliu4@wpi.edu

Website: <http://cinv.ro>

Voice: +1 (508)-873-4348

EDUCATION

- 2018 (EXPECTED) Ph.D. in Computer Science, **Worcester Polytechnic Institute**.
- 2013 M.Sc. in Information Technology, **Hong Kong University of Sci. & Tech.**
- 2012 B.Eng. in Software Engineering, **University of Electronic Sci. & Tech..**

EMPLOYMENT

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

RESEARCH INTERESTS

- Deep learning on graphs and beyond: (M1). (M3).
- Recommender systems: (C1). (C2). (C3). (C8).
- Synergistic graph mining: (C1). (C4). (C5). (C6). (C7). (M2).
- Biological signals analysis & mining: (C4). (C5). (M4). (M5).

PUBLICATION

- (C1). 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.
- (C2). 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.
- (C3). 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.
- (C4). 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.
- (C5). 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.
- (C6). 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.

- (C7). **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.
- (C8). **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

- (M1). **Xinyue Liu**, Xiangnan Kong, Lei Liu, Kuorong Chiang. “Syntax-aware Sequence Generation with Generative Adversarial Networks”. (in submission to ICDM '18)
- (M2). Jianjun Luo, **Xinyue Liu**, Xiangnan Kong. “Competitive Opinion Maximization in Social Networks”. (in submission to CIKM '18)
- (M3). Xin Dai, Xiangnan Kong, **Xinyue Liu**, Constance Moore. “Dual-Attention Recurrent Networks for Affine Registration of Neuroimaging Data”. (in submission to ICDM '18)
- (M4). Hang Yin, Xiangnan Kong, **Xinyue Liu**. “Brain Network Discovery via a Combination Model with Graphical Lasso and Orthogonal Non-negative Matrix Factorization”. (in submission to ICDM '18)
- (M5). Yao Zhang, Yun Xiang, Xiangnan Kong, **Xinyue Liu**, Yangyong Zhu. “Multi-task Attributed Graphical Lasso”. (in submission to ICDM '18)

TEACHING

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

AWARDS

OCT. 2017 WPI Graduate Student Travel Award
 OCT. 2017 IEEE ICDM Travel Award
 MAR. 2017 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,'16,'17, '18), ICML ('18), ICDM ('15,'17), SDM ('17, '18), CIKM ('15, '16, '17), NIPS ('16, '17), IJCAI ('15, '17), AAAI ('17), AISTAT ('17, '18), ICDE ('17), ASONAM ('17), PAKDD ('18)
Conference Volunteer	SDM '16, ICDM' 17