Xinyue Liu

Contact Information

Address: Fuller Lab Rm316, 100 Institute Road, Worcester, MA, USA
email: xliu4@wpi.edu

Employment Experience

Aug 2014 - Present	Research Assistant at Worcester Polytechnic Institute, USA Research Topics: Graph Mining & Data Mining in Information Networks
Feb - Jun 2015	Graduate Teaching Assistant at Worcester Polytechnic Institute, USA Course Taught: Introduction to Algorithms (CS2223)
Feb - Sep 2013	Research Assistant at Hong Kong University of Sci.&Tech., Hong Kong Research Topics: Analysis of Abstract Syntax Tree

Education

Jan 2014 - Dec 2018 (Expected)	Ph.D., Computer Science, **Worcester Polytechnic Institute**, USA Advisor: Prof. Xiangnan Kong | Gpa: 3.8/4.0
Aug 2012 -July 2013	M.Sc., **Hong Kong University of Science & Technology**, Hong Kong Major in Information Technology | Gpa: 3.7/4.0
Sep 2008 - July 2012	B.Eng., **University of Electronic Science & Technology**, China Major in Software Engineering | Gpa: 3.4/4.0
Spring 2011	Exchange Semester at **University of California**, Santa Barbara, USA
Summer 2011	Exchange Semester at **University of California**, Los Angeles, USA

Students Mentored

Yang Xu, Undergraduate Student (WPI) — Sep 2014 - Dec 2014
Research Topics: Social Media Aided Traffic Prediction
Cooperated Papers: [C2]

Xinyuan Sun, Master Student (WPI) — Sep 2015 - Dec 2015
Research Topics: Matrix Factorization, Collaborative Filtering
Cooperated Papers: [C1]

Yuanfang Song, Undergraduate Student (Wuhan University) — July 2016 - Present
Research Topics: Collaborative Filtering
Cooperated Papers: [M1]

Conference Publications

[C1] **Xinyue Liu**, Xiangnan Kong and Yanhua Li. Collective Traffic Prediction with Partially Observed Traffic History using Location-Based Social Media. In: The 25th ACM International Conference on Information and Knowledge Management (*CIKM'16*), Indianapolis, October 24-28, 2016.

[C2] **Xinyue Liu**, Charu Aggarwal, Yu-Feng Li, Xiangnan Kong, Xinyuan Sun and Saket Sathe. Kernelized Matrix Factorization for Collaborative Filtering. In: Proceedings of the SIAM International Conference on Data Mining (*SDM '16*), Miami, Florida, May 5-7, 2016.

Manuscripts

[M1] Yao Zhang, Yun Xiong, **Xinyue Liu**, Xiangnan Kong, Yangyong Zhu. Meta-Path Graphical Lasso for Learning Heterogeneous Connectivities.

[M2] **Xinyue Liu**, Yuanfang Song, Mingrui Wei, Xiangnan Kong. Collaborative Filtering with Life Cycles.

[M3] **Xinyue Liu**, Xiangnan Kong and Ann B. Ragin. Unified and Contrasting Graphical Lasso for Brain Network Discovery.

[M4] Saket Sathe, Charu Aggarwal, Xiangnan Kong and **Xinyue Liu**. Kernel-Based Feature Extraction For Collaborative Filtering.

[M5] **Xinyue Liu**, Xiangnan Kong and Philip S. Yu. Collective Discovery of Brain Networks with Unknown Groups.

Awards

Aug. 2016	SIGIR Student Travel Awards, CIKM
May. 2016	Student Travel Awards, SDM
Feb. 2011	SAF Outstanding Scholarship ($2,000)

Certificates

Sep 2016	**Algorithms: Design and Analysis, Part 1** by Stanford University on Coursera
Dec 2015	**People Analytics** by University of Pennsylvania on Coursera
Dec 2015	**Using Python to Access Web Data** by University of Michigan on Coursera
Dec 2015	**Introduction to Marketing** by University of Pennsylvania on Coursera
Dec 2015	**Business Metrics for Data-Driven Companies** by Duke University on Coursera
Dec 2015	**Mastering Data Analysis in Excel** by Duke University on Coursera
Dec 2015	**Practical Predictive Analytics: Models and Methods** by University of Washington on Coursera
Nov 2015	**Machine Learning** by Stanford University on Coursera
Nov 2015	**Machine Learning Foundations: A Case Study Approach** by University of Washington on Coursera
Nov 2015	**Machine Learning: Regression** by University of Washington on Coursera
Nov 2015	**Data Manipulation at Scale: Systems and Algorithms** by University of Washington on Coursera
Nov 2015	**Customer Analytics** by University of Pennsylvania on Coursera
Nov 2015	**Operation Analytics** by University of Pennsylvania on Coursera
June 2010	TOEFL©: 102 (R:28;L:27;S:23;W:25)

Graduate-Level Courses

Spring 2016	Graph Mining and Network Analysis (CS525)
	Statistical Methods For Data Science (MA543)
Fall 2015	Big Data Analytics (CS586)
Spring 2015	High-Performance Networks (CS530), Foundations of Computer Science (CS503)
Fall 2014	Programming Language Design (CS536)
Spring 2014	Knowledge Discovery and Data Mining (CS548), Computer Network Security (CS558)
	Analysis of Computations and Systems (CS504)

Skills

Languages:	English, Chinese
Programming:	Python, C, C++, Java, sql, ,LaTeX, html, CSS
Frameworks:	Scikit-Learn, Nilearn, Spark