

Liangyue Li

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Education

Arizona State University

Tempe, AZ USA

PH.D. IN COMPUTER SCIENCE

08/2014 - 12/2018

- Advisor: Prof. Hanghang Tong, GPA: 4.0/4.0

Graduate Center, CUNY

New York, NY USA

PH.D. STUDENT IN COMPUTER SCIENCE DEPARTMENT

09/2013 - 06/2014

- Advisor: Prof. Hanghang Tong, GPA: 4.0/4.0

Northeastern University

Boston, MA USA

PH.D. STUDENT IN ELECTRICAL AND COMPUTER ENGINEERING

09/2012 - 05/2013

- Advisor: Prof. Yun Fu and Prof. Jennifer Dy, GPA: 4.0/4.0

University at Buffalo

Buffalo, NY USA

PH.D. STUDENT IN COMPUTER SCIENCE AND ENGINEERING

08/2011 - 08/2012

- Advisor: Prof. Yun Fu, GPA: 4.0/4.0

Tongji University

Shanghai, China

B.ENG IN COMPUTER SCIENCE AND TECHNOLOGY

09/2007 - 06/2011

- GPA: 4.71/5.0

Research Interests

- Data mining, graph mining in Social Network Analysis
- Machine Learning

Work Experience

LinkedIn Corporation

Mountain View, CA

RESEARCH INTERN

05/2016 - 08/2016

- Developed a deep learning model to forecast members' next career move by analyzing their profile data. One paper accepted to **WWW** 2017.

DataXu Inc.

Boston, MA

RESEARCH INTERN

05/2013 - 08/2013

- Designed an online-bidding system by adding computer vision features of ad images.

Research Projects

Teamwork in Big Networks

Tempe, AZ USA

RESEARCH ASSISTANT, ADVISOR: PROF. HANGHANG TONG

ongoing

- Developed team composition and team performance algorithms in the context of big networks
- Check out project website: team-net-work.org

Publications

TUTORIALS

1. **Liangyue Li**, Hanghang Tong. Network Science of Teams: Characterization, Prediction, and Optimization. 24th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD**), 2018.
2. **Liangyue Li**, Hanghang Tong. Network Science of Teams: Characterization, Prediction, and Optimization. 11th ACM International Conference on Web Search and Data Mining (**WSDM**), 2018.

BOOK CHAPTERS

1. Sheng Li, **Liangyue Li**, and Yun Fu, Low-Rank Dictionary Learning, Low-Rank and Sparse Modeling for Visual Analysis, Springer, 2014.

REFEREED JOURNAL PUBLICATIONS

1. Yong Wang, Conglei Shi, **Liangyue Li**, Hanghang Tong, Huamin Qu. Visualizing Research Impact Through Citation Data. ACM Transactions on Interactive Intelligent Systems (**TIIS**), 2017.
2. Muge Li, **Liangyue Li**, Feiping Nie. Ranking with Adaptive Neighbors. Tsinghua Science and Technology, 2017.
3. **Liangyue Li**, Hanghang Tong, Nan Cao, Kate Ehrlich, Yu-Ru Lin, Norbou Buchler. Enhancing Team Composition in Professional Networks: Problem Definitions and Fast Solutions. IEEE Transactions on Knowledge and Data Engineering (**TKDE**), 2016.
4. **Liangyue Li**, Sheng Li, Yun Fu. Learning Low-Rank and Discriminative Dictionary for Image Classification. Image and Vision Computing (**IVC**), 2014. (Invited paper)
5. Weiai Wayne Xu, **Liangyue Li**, Michael A. Stefanone, Yun Fu. Does social media users' commenting behavior differ by their local community tie? A computer-assisted linguistic analysis approach. First Monday, 2014.

REFEREED CONFERENCE PUBLICATIONS

1. **Liangyue Li**, Hanghang Tong, Huan Liu. Towards Explainable Networked Prediction. The 27th ACM International Conference on Information and Knowledge Management (**CIKM**), 2018.
2. **Liangyue Li**, Hanghang Tong, Yong Wang, Conglei Shi, Nan Cao and Norbou Buchler. Is the Whole Greater Than the Sum of Its Parts? 23rd ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD**), 2017. (Oral Presentation)
3. **Liangyue Li**, How Jing, Hanghang Tong, Jaewon Yang, Qi He, Bee-Chung Chen. NEMO: Next Career Move Prediction with Contextual Embedding. 26th International World Wide Web Conference (**WWW**), 2017. (Industry Track)
4. **Liangyue Li**, Yuan Yao, Jie Tang, Wei Fan, Hanghang Tong. QUINT: On Query-Specific Optimal Networks. 22nd ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD**), 2016. (Full Presentation)
5. **Liangyue Li**, Hanghang Tong, Jie Tang, Wei Fan. *iPath*: Forecasting the Pathway to Impact. SIAM International Conference on Data Mining (**SDM**), 2016.
6. **Liangyue Li**, Hanghang Tong. The Child is Father of the Man: Foresee the Success at the Early State. 21st ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD**), 2015. (Research Track)
7. **Liangyue Li**, Hanghang Tong, Nan Cao, Kate Ehrlich, Yu-Ru Lin, Norbou Buchler. Replacing the Irreplaceable: Fast Algorithm for Team Member Recommendation. International World Wide Web Conference (**WWW**), 2015. (Research Track, Acceptance Rate: 14.1%)
8. **Liangyue Li**, Hanghang Tong, Yanghua Xiao, Wei Fan. Cheetah: Fast Graph Kernel Tracking on Dynamic Graphs. SIAM International Conference on Data Mining (**SDM**), 2015. (Oral)
9. Nan Cao, Yu-Ru Lin, **Liangyue Li**, Hanghang Tong. g-Miner: Interactive Visual Group Mining on Multivariate Graphs. ACM Conference on Human Factors in Computing Systems (**CHI**), 2015.
10. Ming Shao, **Liangyue Li**, Yun Fu. What Do You Do? Recognize Occupations in a Photo via Social Context. International Conference on Computer Vision (**ICCV**), 2013.
11. Ming Shao, **Liangyue Li**, Yun Fu. Predicting Professions through Probabilistic Model under Social Context. **AAAI** Late-breaking Track, 2013.
12. **Liangyue Li**, Sheng Li, Yun Fu. Discriminative Dictionary Learning with Low-Rank Regularization for Face Recognition. 10th IEEE International Conference on Automatic Face and Gesture Recognition (**FG**), 2013. (Oral, the Best of FG 2013)
13. Zhenghong Gu, Ming Shao, **Liangyue Li**, Yun Fu. Discriminative Metric: Schatten Norm vs. Vector Norm. 21st International Conference on Pattern Recognition (**ICPR**), 2012.

DEMOS AND WORKSHOP PUBLICATIONS

1. Qinghai Zhou, **Liangyue Li**, Nan Cao, Norbou Buchler and Hanghang Tong. EXTRA: Explaining Team Recommendation in Networks. 12th ACM Conference on Recommender Systems (**RecSys**), 2018. (Demo Track)
2. **Liangyue Li**, Hanghang Tong, Nan Cao, Kate Ehrlich, Yu-Ru Lin and Norbou Buchler. TEAMOPT: Interactive Team Optimization in Big Networks. 25th ACM International Conference on Information and Knowledge Management (**CIKM**), 2016. (Demo Track)
3. **Liangyue Li**, Hanghang Tong, Nan Cao, Kate Ehrlich, Yu-Ru Lin, Norbou Buchler. Enhancing Team Composition in Professional Networks: Problem Definitions and Fast Solutions. Science of Team Science (SciTS) Conference, 2016.
4. **Liangyue Li**, Hanghang Tong, Nan Cao, Kate Ehrlich, Yu-Ru Lin, Norbou Buchler. Computational Methods to Enhance Team Composition in Networks. 2nd Annual International Conference on Computational Social Science (IC²S²), 2016.

Invited Talks

“TOWARDS OPTIMAL TEAMS IN BIG NETWORKS”

- Keynote talk at CIKM 2016 Workshop on Big Network Analytics (BigNet 2016), Indianapolis, IN, 2016

Honors & Awards

2017	SIGKDD Student Travel Award
2017	Travel Award for SBP-BRiMS 2017 Doctoral Consortium
2017	ACM SIGKDD Student Scholarship for ACM's Celebration of 50 Years of the Turing Award
2016	SIGIR Student Travel Award for CIKM
2016	SIGKDD Student Travel Award
2015	SIGKDD Student Travel Award
2014	Science Fellowship, Graduate Center, CUNY
2013	The Best Student Paper Honorable Mention Award, FG
2008-2010	First Prize Scholarship of Tongji University (Top %5)
2010	Excellent Student of Tongji University
2010	Excellence Award Prize in the Microsoft Student Challenge
2008	National Scholarship, Ministry of Education, China

Professional Activities

2019	Program Committee: 36th International Conference on Machine Learning (ICML 2019)
2019	Program Committee: The Web Conference (WWW 2019)
2019	Program Committee: 7th International Conference on Learning Representations (ICLR 2019)
2019	Program Committee: SIAM International Conference on Data Mining (SDM 19)
2018	Program Committee: IEEE ICDM (demo track)
2019	Program Committee: 33rd AAAI Conference on Artificial Intelligence (AAAI 2019)
2018	Program Committee: NIPS 2018
2018	Program Committee: 24th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)
2018	Program Committee: The 2018 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)
2018	Program Committee: The 7th CCF Conference on Natural Language Processing and Chinese Computing - Main English Track, Main Chinese Track, NLP for Social Network Track
2017	Program Committee: SIAM International Conference on Data Mining (SDM 18)
2017	Program Committee: The 32nd Conference on Artificial Intelligence (AAAI-18)
2017	Program Committee: The 26th ACM International Conference on Information and Knowledge Management (CIKM)
2017	Program Committee: The 2017 IEEE ICDM Data Science for Human Capital Management (DSHCM) workshop
2017	Program Committee: The 6th CCF Conference on Natural Language Processing and Chinese Computing - Main English Track
2017	Program Committee: The 2017 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)

- 2016 Organizer: CIKM 2016 Workshop on Big Network Analytics (BigNet 2016)
- 2016 Program Committee: The Thirty-First AAAI Conference on Artificial Intelligence (AAAI-17)
- 2016 Program Committee: The 2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)
- 2015 Web and Publicity Chair: KDD 2015 workshop on Connected Health at Big Data Era
- 2014-2018 Technical committee: 22nd International Conference on Pattern Recognition (ICPR)