

# Jiawei Zhang

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## CONTACT INFORMATION

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## RESEARCH INTERESTS

- **Data Mining and Big Data:**

Scalable Information Fusion and Knowledge Discovery; Large-Scale Multiple Aligned Social Networks Studies; Enterprise Context Information Fusion and Mining; Professional Social Networks Knowledge Discovery; Signed Networks Studies; Reward System Analysis and Design; CrowdSourcing Studies

- **Machine Learning:**

Transfer Learning; Multi-View Multi-Source Learning; Sparse Learning; Active Learning; Semi-supervised Learning; Feature Selection

- **Traffic Planning:**

Vehicle Sharing System Analysis; Vehicle System Expansion Planning; Vehicle Sharing System Rebalancing; Route Planning

- **Bioinformatics:**

Brain Image Analysis; Brain Area Partition

## EDUCATION

**University of Illinois at Chicago**, Chicago, IL  
Ph.D., Computer Science, August 2017

August 2012 to August 2017

- *Thesis:* Fusion of Heterogeneous Social Networks for Synergistic Knowledge Discovery
- *Supervisor:* Philip S. Yu, Ph.D

**Nanjing University**, Nanjing, Jiangsu, China  
B.S., Computer Science, June 2012

September 2008 to June 2012

## WORK EXPERIENCES

**Assistant Professor**  
Department of Computer Science  
Florida State University

August 2017 to present

**Founder and Director**  
IFM Lab  
Information Fusion and Mining Laboratory

April 2017 to present

## INTERN AND RESEARCH EXPERIENCES

**Graduate Research Assistant**  
BDSC Lab, University of Illinois at Chicago  
Chicago, Illinois, USA  
• *Supervisor:* Philip S. Yu, Ph.D

May 2013 to May 2017

**Research Internship at Yahoo! Research**  
Yahoo! Labs, Sunnyvale Campus  
Sunnyvale, California, USA  
• *Mentors:* Jianhui Chen, Ph.D and Yi Chang, Ph.D

May 2016 to August 2016

	<b>Research Internship at IBM Research</b> IBM T. J. Watson Research Center Yorktown Heights, New York, USA <ul style="list-style-type: none"> <li>• <i>Mentor:</i> <a href="#">Charu Aggrawal</a>, Ph.D</li> </ul>	May 2015 to August 2015
	<b>Research Internship at Microsoft Research</b> Microsoft Research, Silicon Valley Campus Mountain View, California, USA <ul style="list-style-type: none"> <li>• <i>Mentor:</i> <a href="#">Yuanhua Lv</a>, Ph.D</li> </ul>	May 2014 to August 2014
	<b>Undergraduate Research Assistant</b> <a href="#">LAMDA Lab</a> , Nanjing University Nanjing, Jiangsu, China <ul style="list-style-type: none"> <li>• <i>Supervisors:</i> <a href="#">De-Chuan Zhan</a>, Ph.D and <a href="#">Zhi-Hua Zhou</a>, Ph.D</li> </ul>	September 2011 to June 2012
AWARDS AND HONORS	<ul style="list-style-type: none"> <li>• <b>Best Student Paper Runner Up Award</b>, ASONAM, 2016</li> <li>• SIGIR Student Travel Award, CIKM, 2016</li> <li>• Student Travel Award, IEEE CIC, 2016</li> <li>• Student Travel Award, KDD, 2015</li> <li>• Student Travel Award, ICDM, 2015</li> <li>• Student Travel Award, WSDM, 2014</li> <li>• UIC Scholar Travel Grant, 2014</li> <li>• Second Prize of People's Scholarship, Nanjing University, 2011</li> <li>• SAMSUNG Scholarship, Nanjing University, 2010</li> <li>• First Prize of People's Scholarship, Nanjing University, 2010</li> <li>• Outstanding Student, Nanjing University, 2010</li> <li>• Second Prize of People's Scholarship, Nanjing University, 2009</li> <li>• Outstanding Student, Nanjing University, 2009</li> </ul>	
GRANT PROPOSAL WRITING	<ul style="list-style-type: none"> <li>• NSF grant III-1526499 with Prof. Philip S. Yu (PI).  <b>III: Small: Fusion of Heterogeneous Networks for Synergistic Knowledge Discovery.</b>            Received a 3-year NSF grant of \$500K to University of Illinois at Chicago.</li> </ul>	August 2015
TEACHING EXPERIENCE	<b>Course Assistant Lecturer</b> Department of Computer Science University of Illinois at Chicago Course: CS 151 Foundations of Computing Weekly Lab Session Lecturer	January to May, 2013
	<b>Graduate Teaching Assistant</b> Department of Computer Science University of Illinois at Chicago Course: CS 584 Advanced Data Mining Instructor: Philip S. Yu, Ph.D	August to December, 2016
	Course: CS 151 Foundations of Computing Instructor: <a href="#">John Lillis</a> , Ph.D	January to May, 2013
	CS201 Data Structures and Discrete Mathematics I Instructor: <a href="#">Mitchell D. Theys</a> , Ph.D	August to December, 2012
	<b>Student Mentored:</b>	

**Conying Xia**, PhD Candidate January 2017 to August 2017  
 Research Topic: Network Embedding  
 Collaborated Papers: [M18]

**Ye Liu**, PhD Candidate September 2016 to August 2017  
 Research Topic: Multiple Aligned Movie Library Analysis  
 Collaborated Papers: [M12]

**Chenwei Zhang**, PhD Candidate March 2016 to August 2017  
 Research Topic: Deep Learning Application in Data Mining  
 Collaborated Papers: [M12], [C1], [M17], [M18], [J9]

**Junxing Zhu**, PhD Candidate December 2015 to December 2016  
 Research Topic: User Resolution and Alignment across Networks  
 Collaborated Papers: [C5], [J7], [M6], [C1], [J9]

**Qianyi Zhan**, PhD Candidate September 2014 to September 2016  
 Research Topic: Information Diffusion and Viral Marketing  
 Collaborated Conference Papers: [C12], [C13], [C17], [C19], [C30], [C15], [M10]  
 Collaborated Journal Articles: [J2], [J3], [J4], [J5]

#### INVITED TALKS

- **Fusion of Heterogeneous Social Networks for Synergistic Knowledge Discovery**, Florida State University. (hosted by Prof. Xiuwen Liu) April 2016
- **Fusion of Heterogeneous Social Networks for Synergistic Knowledge Discovery**, University of Louisiana at Lafayette. (hosted by Prof. Mohsen Amini) March 2016
- **Fusion of Heterogeneous Social Networks for Synergistic Knowledge Discovery**, Indiana University Purdue University Indianapolis. (hosted by Prof. Khairi Reda) March 2016
- **Fusion of Heterogeneous Social Networks for Synergistic Knowledge Discovery**, Indiana University Bloomington. (hosted by Prof. Minje Kim) February 2016
- **Fusion of Heterogeneous Social Networks for Synergistic Knowledge Discovery**, Binghamton University. (hosted by Prof. Weiyi Meng) February 2016
- **Fusion of Heterogeneous Social Networks for Synergistic Knowledge Discovery**, Rensselaer Polytechnic Institute. (hosted by Prof. Boleslaw K. Szymanski) February 2016
- **Fusion of Heterogeneous Social Networks for Synergistic Knowledge Discovery**, University Alabama at Birmingham. (hosted by Prof. Peter Pirkelbauer) February 2016
- **Fusion of Heterogeneous Social Networks for Synergistic Knowledge Discovery**, New Jersey Institute of Technology. (hosted by Prof. Brook Wu) January 2016
- **Fusion of Heterogeneous Social Networks for Synergistic Knowledge Discovery**, Temple University. (hosted by Prof. Zoran Obradovic) January 2016
- **Link Prediction with Cardinality Constraint**, Yahoo! Research, USA. (hosted by Dr. Yi Chang) August 2016
- **Fusion of Heterogeneous Social Networks for Synergistic Knowledge Discovery**, Yahoo! Research, USA. (hosted by Dr. Yi Chang) May 2016
- **Enterprise Social Network Analysis and Social Link Recommendation**, Microsoft Research, USA. (hosted by Dr. Yuanhua Lv) August 2014

RESEARCH  
PUBLICATION  
SUMMARY

**Published Papers:** 2 Book Chapters, 36 Conference Papers, 9 Journal Articles  
**Submitted Manuscripts:** 12 Conference Manuscripts, 6 Journal Manuscripts  
**Academic Impacts:** No. citations: 463, h-index: 11 (By August 16, 2017)  
 (Source: <https://scholar.google.com/citations?user=7AkZSJAAAAJ&hl=en>)

BOOK  
CHAPTERS

- [BC1] **Jiawei Zhang**. Chapter 6: Fusion Learning on Heterogeneous Social Networks. Heterogeneous Information Network Analysis and Applications (Data Analytics), Chuan Shi and Philip S. Yu, Springer.
- [BC2] **Jiawei Zhang** and Philip S. Yu. Chapter: Cross-Platform Social Network Analysis. Encyclopedia of Social Network Analysis and Mining 2nd Edition, 2016.

REFERRED  
JOURNAL  
ARTICLES

- [J1] Chuan Shi, Yitong Li, **Jiawei Zhang** and Yizhou Sun, Philip S. Yu. [A Survey of Heterogeneous Information Network Analysis](#). IEEE Transactions on Knowledge and Data Engineering (TKDE), Volume PP, Issue 99, DOI: 10.1109/TKDE.2016.2598561, ISSN: 1041-4347, 2017.
- [J2] **Jiawei Zhang**, Qianyi Zhan and Philip S. Yu. [Concurrent Alignment of Multiple Anonymized Social Networks with Generic Stable Matching](#). Springer Advances in Intelligent Systems and Computing (AISC) Journal, Volume 446, pp 173-196, 2016.
- [J3] Qianyi Zhan, **Jiawei Zhang** and Philip S. Yu. Integrated Anchor and Social Link Predictions across Multiple Social Networks. Knowledge and Information Systems. 2016.
- [J4] Qianyi Zhan, **Jiawei Zhang**, Philip S. Yu and Junyuan Xie. Mutual Community Detection across Multiple Partially Aligned Social Networks. WWW Journal. 2016.
- [J5] Qianyi Zhan, **Jiawei Zhang**, Philip S. Yu, Sherry Emery and Junyuan Xie. Inferring Social Influence of Anti-Tobacco Mass Media Campaigns. IEEE Transactions on NanoBioscience. Volume: 16 Issue: 5, 2017
- [J6] Weiwei Shi, Yongxin Zhu, Philip S. Yu, **Jiawei Zhang**, Tian Huang, Chang Wang, and Yufeng Chen. Effective Prediction of Missing Data on Apache Spark over Multivariable Time Series. IEEE Transaction on Big Data (*TBD*).
- [J7] Junxing Zhu, **Jiawei Zhang**, Quanyuan Wu, Bin Zhou, Xiaokai Wei and Philip S. Yu. Constrained Active Learning for Anchor Link Prediction across Heterogeneous Social Networks. Sensors Journal.
- [J8] **Jiawei Zhang**, Songchang Jin and Philip S. Yu. Mutual Community Detection across Multiple Partially Aligned Social Networks. Services Transactions on Big Data (*STBD*). Volume 3, Issue 2, 2016.
- [J9] Junxing Zhu, **Jiawei Zhang**, Chenwei Zhang, Quanyuan Wu, Yan Jia, Bin Zhou and Philip S. Yu CHRS: Cold Start Recommendation across Multiple Heterogeneous Information Networks. Journal of IEEE Access. Volume 14, Issue 8. 2015.

REFERRED  
CONFERENCE  
PUBLICATIONS

- [C1] **Jiawei Zhang**, Congying Xia, Chenwei Zhang, Limeng Cui, Yanjie Fu, and Philip S Yu. MNE: Emerging Social Network Embedding with Aligned Autoencoder. In: Proceedings of the IEEE International Conference on Data Mining (*ICDM '17*), New Orleans, Louisiana, USA, November 18-21, 2017.

- [C2] Zhu Junxing, **Jiawei Zhang**, Lifang He, Quanyuan Wu, Bin Zhou, Chenwei Zhang and Philip Yu. Multi-Source Collaborative Recommendation. In: Proceedings of the 2017 International Conference on Information and Knowledge Management (*CIKM '17*), Singapore, November 6-10, 2017.
- [C3] **Jiawei Zhang**, Limeng Cui, Philip S. Yu, Yuanhua Lv and Yanjie Fu. ECD: Enterprise Social Community Detection via Hierarchical Structure Fusion. In: Proceedings of the 2017 International Conference on Information and Knowledge Management (*CIKM '17*), Singapore, November 6-10, 2017.
- [C4] **Jiawei Zhang**, Jianhui Chen, Shi Zhi, Yi Chang, Philip S. Yu and Jiawei Han. Link Prediction across Aligned Networks with Sparse Low Rank Matrix Estimation. In: Proceedings of the 2017 IEEE International Conference on Data Engineering (*ICDE '17*), San Diego, California, USA, April 19-22, 2017.
- [C5] **Jiawei Zhang**, Philip S. Yu, Yuanhua Lv. Enterprise Social Community Detection via Hierarchical Information Fusion. In: Proceedings of the 2017 IEEE International Conference on Data Engineering (*ICDE '17*), San Diego, California, USA, April 19-22, 2017.
- [C6] **Jiawei Zhang**, Jianhui Chen, Junxing Zhu, Yi Chang, and Philip S. Yu. [Link Prediction with Cardinality Constraints](#). In: Proceedings of the 10th ACM International WSDM Conference (*WSDM '17*), Cambridge, UK, February 6-10, 2017.
- [C7] **Jiawei Zhang**, Philip S. Yu, Yuanhua Lv. [Enterprise Employee Training via Project Team Formation](#). In: Proceedings of the 10th ACM International WSDM Conference (*WSDM '17*), Cambridge, UK, February 6-10, 2017.
- [C8] **Jiawei Zhang**, Charu Aggarwal and Philip S. Yu. Rumor Initiator Detection in Infected Signed Network. In: Proceedings of the 37th IEEE International Conference on Distributed Computing Systems (*ICDCS '17*), Atlanta, GA, USA, June 5-8, 2017.
- [C9] **Jiawei Zhang**, Philip S. Yu and Charu C. Aggarwal. Social Attitude Expression Prediction in Signed Networks. In: Proceedings of the 6th IEEE International Congress on Big Data (*IEEE BigData Congress '17*).
- [C10] **Jiawei Zhang**, and Philip S. Yu. [PCT: Partial Co-Alignment of Social Networks](#). In: Proceedings of the 25th International World Wide Web Conference (*WWW '16*), Montreal, Canada, April 11-15, 2016.
- [C11] Qingbo Hu, Sihong Xie, **Jiawei Zhang**, Qiang Zhu and Philip S. Yu. [HeteroSales: Utilizing Heterogeneous Social Networks to Identify the Next Enterprise Customer](#). In: Proceedings of the 25th International World Wide Web Conference (*WWW '16*), Montreal, Canada, April 11-15, 2016.
- [C12] **Jiawei Zhang**, Xiao Pan, Moyin Li and Philip S. Yu. [Bicycle-Sharing System Expansion: Station Re-Deployment through Crowd Planning](#). In: Proceedings of the 24th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (*SIGSPATIAL '16*), San Francisco Bay Area, California, USA, October 31-November 3, 2016.
- [C13] **Jiawei Zhang**, Philip S. Yu, Yuanhua Lv and Qianyi Zhan. [Information Diffusion at Workplace](#). In: Proceedings of the 25th ACM International Conference on Information and Knowledge Management (*CIKM '16*), Indianapolis, Indiana, USA, October 24-28, 2016.

- [C14] **Jiawei Zhang**, Qianyi Zhan, Lifang He, Charu C. Aggarwal and Philip S. Yu. [Trust Hole Identification in Signed Networks](#). In: Proceedings of the 2016 European Conference on Machine Learning and Principles and Practice of Knowledge Discovery (*ECML-PKDD '16*), Riva del Garda, Italy, September 19-23, 2016.
- [C15] Guixiang Ma, Lifang He, Bokai Cao, **Jiawei Zhang**, Philip S. Yu, and Ann B. Ragin. Multi-Graph Clustering based on Interior-Node Topology with Applications to Brain Networks. In: Proceedings of the 2016 European Conference on Machine Learning and Principles and Practice of Knowledge Discovery (*ECML-PKDD '16*), Riva del Garda, Italy, September 19-23, 2016.
- [C16] Qianyi Zhan, **Jiawei Zhang**, Philip S. Yu, Sherry Emery and Junyuan Xie. Inferring Social Influence of Anti-Tobacco Mass Media Campaigns. In: Proceedings of the IEEE International Conference on Bioinformatics and Biomedicine (*BIBM '16*), Shenzhen, China, December 15-18, 2016.
- [C17] **Jiawei Zhang**, Xiangnan Kong and Philip S. Yu. [Social Badge System Analysis](#). In: Proceedings of the 2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (*ASONAM '16*), San Francisco, CA, USA, 18-21 August, 2016. (**Best Student Paper Runner Up**)
- [C18] **Jiawei Zhang**, Senzhang Wang, Qianyi Zhan and Philip S. Yu. [Intertwined Viral Marketing in Social Networks](#). In: Proceedings of the 2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (*ASONAM '16*), San Francisco, CA, USA, 18-21 August, 2016.
- [C19] Xiao Pan, **Jiawei Zhang**, Fengjiao Wang and Philip S. Yu. Distance-based Social Discovery with Posterior Privacy Verification. In: Proceedings of the 2016 IEEE International Conference on Big Data (*IEEE BigData 2016*), Washington D.C., USA, 5-8, December 2016.
- [C20] Qianyi Zhan, **Jiawei Zhang**, Philip S. Yu and Junyuan Xie. [Discover Tipping Users For Cross Network Influencing](#). In: Proceedings of the IEEE 17th International Conference on Information Reuse and Integration (*IRI '16*), Pittsburgh, PA, USA, July 28-30, 2016. (Invited Paper)
- [C21] Weixiang Shao, **Jiawei Zhang**, Lifang He and Philip S. Yu. Multi-Source Multi-View Clustering via Discrepancy Penalty. In: Proceedings of the International Joint Conference on Neural Networks (*IJCNN '16*), Vancouver, Canada, July 24-29, 2016.
- [C22] **Jiawei Zhang** and Philip S. Yu. [Trip Route Planning for Bicycle-Sharing Systems](#). In: Proceedings of the 2nd IEEE International Conference on Collaboration and Internet Computing (*IEEE CIC '16*), Pittsburgh, PA, USA, November 1-3, 2016.
- [C23] **Jiawei Zhang**, Xiao Pan, Moyin Li and Philip S. Yu. [Bicycle-Sharing System Analysis and Trip Prediction](#). In: Proceedings of the 17th International Conference on Mobile Data Management (*MDM '16*), Porto, Portugal, June 13-16, 2016.
- [C24] **Jiawei Zhang**, Philip S. Yu and Yuanhua Lv. [Organizational Chart Inference](#). In: Proceedings of the 21st ACM SIGKDD Conference on Knowledge Discovery and Data Mining (*KDD '15*), Sydney, Australia, August 10-13, 2015.
- [C25] **Jiawei Zhang**, and Philip S. Yu. [Multiple Anonymized Social Networks Alignment](#). In: Proceedings of the IEEE International Conference on Data Mining (*ICDM '15*), Atlantic City, NJ, USA, November 14-17, 2015.



- [C26] **Jiawei Zhang** and Philip S. Yu. [Integrated Anchor and Social Link Predictions across Partially Aligned Social Networks](#). In: Proceedings of the International Joint Conference on Artificial Intelligence (*IJCAI '15*), Buenos Aires, Argentinean, July 25-31, 2015.
- [C27] **Jiawei Zhang**, Yuanhua Lv and Philip S. Yu. [Enterprise Social Link Recommendation](#). In: Proceedings of the 24th ACM International Conference on Information and Knowledge Management (*CIKM '15*), Melbourne, Australia, October 19-23, 2015.
- [C28] **Jiawei Zhang** and Philip S. Yu. [Community Detection for Emerging Networks](#). In: Proceedings of the 15th SIAM International Conference on Data Mining (*SDM '15*), Vancouver, British Columbia, Canada, April 30-May 2, 2015.
- [C29] **Jiawei Zhang**, Weixiang Shao, Senzhang Wang, Xiangnan Kong and Philip S. Yu. [PNA: Partial Network Alignment with Generic Stable Matching](#). In: Proceedings of the 16th IEEE International Conference on Information Reuse and Integration (*IEEE IRI '15*), San Francisco, CA, USA, August 13-15, 2015. (Invited Paper)
- [C30] **Jiawei Zhang** and Philip S. Yu. [MCD: Mutual Clustering across Multiple Heterogeneous Networks](#). In: Proceedings of IEEE BigData Congress (*IEEE BigData Congress '15*), New York City, NY, June 27-July 2, 2015. (Invited Paper)
- [C31] Qianyi Zhan, **Jiawei Zhang**, Senzhang Wang, Philip S. Yu and Junyuan Xie. [Influence Maximization across Partially Aligned Heterogenous Social Networks](#). In: Proceedings of the 19th Pacific-Asia Conference on Knowledge Discovery and Data Mining (*PAKDD '15*), Ho Chi Minh City, Vietnam, May 19-22, 2015.
- [C32] Senzhang Wang, Honghui Zhang, **Jiawei Zhang**, Philip S. Yu and Zhoujun Li. [Inferring Diffusion Networks with Structure Transfer](#). In: Proceedings of the 20th International Conference on Database Systems for Advanced Applications (*DASFAA '15*), Hanoi, Vietnam, April 20-23, 2015.
- [C33] **Jiawei Zhang**, Philip S. Yu and Zhi-Hua Zhou. [Meta-path based Multi-network Collective Link Prediction](#). In: Proceedings of the 20th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (*KDD '14*), New York City, NY, August 24-27, 2014.
- [C34] **Jiawei Zhang**, Xiangnan Kong and Philip S. Yu. [Transferring Heterogeneous Links across Location-Based Social Networks](#). In: Proceedings of the 7th International ACM Conference on Web Search and Data Mining (*WSDM '14*), New York City, NY, February 24-28, 2014.
- [C35] Songchang Jin, **Jiawei Zhang**, Philip S. Yu, Shuqiang Yang and Aiping Li. [Synergistic Partitioning in Multiple Large Scale Social Networks](#). In: Proceedings of the 2014 IEEE International Conference on Big Data (*IEEE BigData '14*), Washington, DC, October 27-30, 2014.
- [C36] **Jiawei Zhang**, Xiangnan Kong and Philip S. Yu. [Predicting Social Links for New Users across Aligned Heterogeneous Social Networks](#). In: Proceedings of the 13th IEEE International Conference on Data Mining (*ICDM '13*), Dallas, Texas, December 7-10, 2013.
- [C37] Xiangnan Kong, **Jiawei Zhang** and Philip S. Yu. [Inferring Anchor Links across Heterogeneous Social Networks](#). In: Proceedings of the 22nd ACM International Conference on Information and Knowledge Management (*CIKM '13*), San Francisco, CA, October 27-November 1, 2013.

- [M1] **Jiawei Zhang**, Xiangnan Kong and Philip S. Yu. Social Badge System Analysis and Design. Submitted to the Springer Social Network Analysis and Mining. *Invited Submission*
- [M2] **Jiawei Zhang**, Senzhang Wang, Qianyi Zhan and Philip S. Yu. Conditional and Joint Intertwined Viral Marketing in Social Networks. Submitted to the Springer Social Network Analysis and Mining. *Invited Submission*
- [M3] **Jiawei Zhang**, Xiangnan Kong and Philip S. Yu. Link Prediction for New Users across Aligned Heterogeneous Social Networks. Submitted to the IEEE Transactions on Knowledge and Data Engineering (TKDE). *Under Review*
- [M4] **Jiawei Zhang** and Philip S. Yu. Community Detection for Emerging Social Networks. Submitted to the International Journal on Very Large Data Base (VLDB Journal). *Under Review*
- [M5] **Jiawei Zhang**, Weixiang Shao, Senzhang Wang, Xiangnan Kong and Philip S. Yu. Partial Network Alignment with Anchor Meta Path and Generic Stable Matching. Submitted to the ACM Transactions on The Web (TWEB). *Under Review*
- [M6] Junxing Zhu, **Jiawei Zhang**, Philip S. Yu, Quanyuan Wu, Bin Zhou and Qiang Liu. Connecting Chinese Users across Heterogeneous Social Networks: A Behavioral-Modeling Approach. Submitted to the Scientometrics Journal. *Under Review*

- [M7] Lichao Sun, Xiaokai Wei , **Jiawei Zhang**, Lifang He, Philip S. Yu, and Witawas Srisa-an. PUDroid: Positive and Unlabeled Learning to Detect Zero-day Android Malware. Submitted to the ACM Asia Conference on Computer and Communications Security (*ASIACCS '17*).
- [M8] Yang Yang, Xie Hu, Haoyan Liu, **Jiawei Zhang**, Zhoujun Li and Philip S. Yu. r-instance Learning for Missing People Tweets Identification. Submitted to the 2017 SIAM International Conference on Data Mining (*SDM '16*).
- [M9] Sina Sajadmanesh, **Jiawei Zhang** and Hamid R. Rabiee. NP-GLM: A Non-Parametric Method for Temporal Link Prediction. Submitted to the International Joint Conference on Artificial Intelligence (*IJCAI '17*).
- [M10] Qianyi Zhan, **Jiawei Zhang**, Philip S. Yu and Junyuan Xie. Viral Marketing through Aligned Networks. Submitted to the International Joint Conference on Artificial Intelligence (*IJCAI '17*).
- [M11] Cheng-Ying Liu, Chih-Ya Shen, Philip S. Yu, Ming-Syan Chen, Chun-Ta Lu and **Jiawei Zhang**. Detecting Trends in Social Media via Heterogeneous Social Network. Submitted to the 23rd ACM SIGKDD Conference on Knowledge Discovery and Data Mining (*KDD '17*).
- [M12] Ye Liu, **Jiawei Zhang**, Chenwei Zhang and Philip S. Yu. Data-driven Blockbuster Planning on Online Movie Knowledge Library. In: Proceedings of the 2017 International Conference on Information and Knowledge Management (*CIKM '17*).
- [M13] Limeng Cui, Zhensong Chen, Lifang He, **Jiawei Zhang**, Yong Shi and Philip S. Yu. Data Fusion for Cross-modal Retrieval Using Tensor Modeling. In: Proceedings of the 2017 International Conference on Information and Knowledge Management (*CIKM '17*).



- [M14] Pengyang Wang, **Jiawei Zhang**, Guannan Liu, and Yanjie Fu. Learning Spatial Structure for Spotting Vibrant Communities using Human Mobility and POIs. Submitted to the IEEE International Conference on Data Mining (*ICDM '17*).
- [M15] Yang Yang, Lei Zheng, **Jiawei Zhang**, Qingcai Cui, Zhoujun Li, and Philip S Yu. TI-CNN: Convolutional Neural Networks for Fake News Detection. Submitted to the IEEE International Conference on Data Mining (*ICDM '17*).
- [M16] Limeng Cui, Zhensong Chen, **Jiawei Zhang**, Yong Shi, and Philip S. Yu. Inverse Extreme Learning Machine for Learning with Label Proportions. Submitted to the IEEE International Conference on Data Mining (*ICDM '17*).
- [M17] **Jiawei Zhang**, Chenwei Zhang, Bowen Dong, Limeng Cui, Yang Yang and Philip S. Yu. Missing Entity Synergistic Completion across Multiple Isomeric Online Knowledge Libraries. Submitted to the IEEE International Conference on Data Mining (*ICDM '17*).

#### TECHNICAL REPORTS

- [R1] Philip S. Yu, **Jiawei Zhang**. On Mining Big Data and Social Network Analysis. July 2014.
- [R2] **Jiawei Zhang**, Philip S. Yu. Link Prediction across Heterogeneous Social Networks: A Survey.

#### PROFESSIONAL SERVICE

##### **Transaction Information Director and Specialist:**

- Administrator of ACM Transactions on Knowledge Discovery from Data (TKDD).

##### **Conference Session Chair:**

- IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining, Session 7C: Adversarial/Trust 2, *ASONAM 2016*

##### **Conference Program Committee:**

- ACM SIGKDD Conference of Knowledge Discovery and Data Mining, *KDD 2016*
- ACM International Conference on Information and Knowledge Management, *CIKM 2015, CIKM 2016, CIKM 2017*
- Asia Information Retrieval Societies Conferenc, *AIRS 2016, AIRS 2017*
- IEEE International Conference on Information Reuse and Integration, *IRI 2017*
- International Conference on Data Mining, *ICDM 2017*
- International World Wide Web Conference, *WWW 2017*
- International Conference on Data Analytics, *DATA ANALYTICS 2016*
- International Conference on Advanced Data Mining and Applications, *ADMA 2017*

##### **Journal Reviewer:**

- ACM Transactions on Knowledge Discovery from Data, *TKDD 2013, 2014, 2015, 2016*
- IEEE Transactions on Knowledge and Data Engineering, *TKDE 2014*

##### **Conference External Reviewer:**

- AAAI Conference on Artificial Intelligence, *AAAI 2016, 2017*
- ACM SIGKDD Conference of Knowledge Discovery and Data Mining, *KDD 2013, 2014*
- ACM International Conference on Information and Knowledge Management, *CIKM 2013, 2015*

- ACM International Web Search and Data Mining, *WSDM 2014, 2017*
- IEEE International Conference on Data Engineering, *ICDE 2015*
- IEEE International Conference on Data Mining, *ICDM 2014, 2016*
- IEEE International Conference on Big Data, *IEEE BigData 2013, 2015*
- European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, *PKDD/ECML 2014*

**Conference Volunteer:**

- IEEE International Conference on Data Mining, *ICDM 2015*
- ACM International Web Search and Data Mining, *WSDM 2014*

REFERENCES

**Philip S. Yu, PhD, MBA** (Advisor)

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