

Jundong Li

CONTACT INFORMATION	BYENG 561 AC 699 South Mill Ave Tempe, AZ 85281, USA	<i>Phone: +1-480-738-8409</i> <i>Email: jundongli@asu.edu</i> <i>Homepage: http://www.public.asu.edu/~jundongli/</i>
RESEARCH INTERESTS	<ul style="list-style-type: none">• Data Mining: dimensionality reduction; dynamic networks; data streams; network embedding; relational learning; anomaly detection; online learning; sentiment analysis; recommender systems; clustering; active learning; semi-supervised learning; associative classification; co-location pattern mining; spatial-temporal data mining• Feature Selection: unsupervised feature selection; feature selection on networks; feature selection on dynamic networks; streaming feature selection; multi-label feature selection; feature selection on signed networks; personalized feature selection• Social Computing: social network analysis; signed social networks; reciprocal link analysis; user behavior analysis; social cyberbullying detection; social mental health; social security	
EDUCATION	Arizona State University , Tempe, Arizona, USA Ph.D., Computer Science and Engineering <ul style="list-style-type: none">• GPA: 4.00/4.00• Advisor: Huan Liu, Ph.D, Fellow of IEEE University of Alberta , Edmonton, Alberta, Canada M.Sc., Department of Computing Science <ul style="list-style-type: none">• GPA: 4.00/4.00• Advisor: Osmar R. Zaiane, Ph.D Zhejiang University , Hangzhou, Zhejiang, China B.Eng., College of Computer Science and Technology <ul style="list-style-type: none">• GPA: 3.71/4.00	Aug 2014 - Present Sep 2012 - Jul 2014 Aug 2008 - Jun 2012
RESEARCH EXPERIENCES	Intern Scientist, Yahoo! Research Mentor: Yi Chang, Ph.D and Jiliang Tang, Ph.D <ul style="list-style-type: none">• Reciprocal behaviors analysis on dynamic social networks• User reciprocal delay prediction on Tumblr Research Assistant, Computer Science, ASU Advisor: Huan Liu, Ph.D, Fellow of IEEE <ul style="list-style-type: none">• Feature selection for social media data• Dynamic social network analysis• Social relational learning• Anomaly detection on networks• Feature selection repository - <i>scikit-feature</i> (news coverage on KDnuggets) Research Assistant, Computing Science, UAlberta Advisor: Osmar R. Zaiane, Ph.D <ul style="list-style-type: none">• Associative classification with statistically significant rules• Co-location pattern mining on extended spatial objects	May 2016 - Aug 2016 Dec 2014 - present May 2013 - Jul 2014
CONFERENCE TUTORIALS	[T1] Jundong Li , Jiliang Tang, Huan Liu. "Recent Advances in Feature Selection: A Data Perspective", In Proceedings of 23rd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, Halifax, Canada, Aug 13-17, 2017	

REFEREED BOOK
CHAPTERS

- [B1] Luiza Antonie, **Jundong Li**, Osmar R. Zaiane. “Negative Association Rules”, In Frequent Pattern Mining (editors: Charu C. Aggarwal and Jiawei Han), Springer, 2014.

REFEREED
JOURNAL
PUBLICATIONS

- [J1] **Jundong Li**, Kewei Cheng, Suhang Wang, Fred Morstatter, Robert P. Trevino, Jiliang Tang and Huan Liu. “Feature Selection: A Data Perspective”, arXiv preprint, arXiv:1601.07996. Short version: ACM Computing Survey (CSUR) (Revision)
- [J2] Ling Jian, **Jundong Li**, Huan Liu. “Toward Online Learning on Streaming Networks”. Data Mining and Knowledge Discovery (DMKD), 2017. (accepted with minor revision)
- [J3] Ling Jian, **Jundong Li**, Shihua Luo. “Exploiting Expertise Rules for Statistical Data-Driven Modeling”. IEEE Transactions on Industrial Electronics (TIE), 2017. (To Appear)
- [J4] Ling Jian, **Jundong Li**, Huan Liu. “Exploiting Multi-Label Information for Noise Resilient Feature Selection”. ACM Transactions on Intelligent Systems and Technology (TIST). (Revision)
- [J5] **Jundong Li**, Huan Liu. “Challenges of Feature Selection for Big Data Analytics”, IEEE Intelligent Systems, 32(2): 9-15, 2017.
- [J6] **Jundong Li**, Osmar R. Zaiane. “Exploiting Statistically Significant Dependent Rules for Associative Classification”, Intelligent Data Analysis: An International Journal, 2016 (To Appear).
- [J7] **Jundong Li**, Aibek Adilmagambetov, M. Shazan M. Jabbar, Osmar R. Zaiane, Alvaro Osornio-Vargas and Osnat Wine. “On Discovering Co-Location Patterns in Datasets: A Case Study of Pollutants and Child Cancers”, Geoinformatica, 20(4), 651-692, 2016.
- [J8] Ling Jian, Shuqian Shen, **Jundong Li**, Xijun Liang and Lei Li. “Budget Online Learning Algorithm for Least Squares SVM”, IEEE Transactions on Neural Networks and Learning Systems (TNNLS), 2016 (To Appear).

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PUBLICATIONS

- [C1] **Jundong Li**, Jiliang Tang, Yilin Wang, Yali Wan, Yi Chang and Huan Liu “Understanding and Predicting Delay in Reciprocal Relations”, arXiv preprint, arXiv:1703.01393.
- [C2] **Jundong Li**, Harsh Dani, Xia Hu, Huan Liu. “Radar: Residual Analysis for Anomaly Detection in Attributed Networks”, In Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI). Aug 19-25, 2017, Melbourne, Australia.
- [C3] **Jundong Li**, Jiliang Tang, Huan Liu. “Reconstruction based Unsupervised Feature Selection: An Embedded Approach”, In Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI). Aug 19-25, 2017, Melbourne, Australia.
- [C4] **Jundong Li**, Liang Wu, Osmar R. Zaiane, Huan Liu. “Personalized Relational Learning”, In Proceedings of the 17th SIAM International Conference on Data Mining (SDM). Apr 27-29, 2017, Houston, USA.

- [C5] Liang Wu, **Jundong Li**, Xia Hu, Huan Liu. “Gleaning Wisdom From The Past: Early Detection of Emerging Rumors in Social Media”, In Proceedings of the 17th SIAM International Conference on Data Mining (SDM). Apr 27-29, 2017, Houston, USA.
- [C6] Xiao Huang, **Jundong Li**, Xia Hu. “Accelerated Attributed Network Embedding”, In Proceedings of the 17th SIAM International Conference on Data Mining (SDM). Apr 27-29, 2017, Houston, USA.
- [C7] Yilin Wang, Jiliang Tang, **Jundong Li**, Baoxin Li, Yali Wan, Clayton Mellina, Neil O’Hare, Yi Chang. “Understanding and Discovering Deliberate Self-harm Content in Social Media”, In Proceedings of the 26th International World Wide Web Conference (WWW). Apr 3-7, 2017, Perth, Australia.
- [C8] Kewei Cheng, **Jundong Li**, Jiliang Tang, Huan Liu. “Unsupervised Sentiment Analysis with Signed Social Networks”, In Proceedings of the 31st AAAI Conference on Artificial Intelligence (AAAI), Feb 4-9, 2017, San Francisco, CA, USA.
- [C9] Xiao Huang, **Jundong Li**, Xia Hu. “Label Informed Attributed Network Embedding”, In Proceedings of the 10th ACM International Conference on Web Search and Data Mining (WSDM). Feb 6-10, 2017, Cambridge, UK.
- [C10] **Jundong Li**, Xia Hu, Ling Jian, Huan Liu. “Toward Time-Evolving Feature Selection on Dynamic Networks”, In Proceedings of the 16th IEEE International Conference on Data Mining (ICDM). Dec 12-15, 2016, Barcelona, Spain.
- [C11] Kewei Cheng, **Jundong Li**, Huan Liu. “FeatureMiner: A Tool for Interactive Feature Selection” (demo), In Proceedings of the 25th ACM International Conference on Information and Knowledge Management (CIKM). Oct 24-28, 2016, Indianapolis, USA.
- [C12] **Jundong Li***, Ling Jian*, Kai Shu, Huan Liu. (* equally contributed) “Multi-Label Informed Feature Selection”, In Proceedings of the 25th International Joint Conference on Artificial Intelligence (IJCAI). Jul 9-15, 2016, New York, USA.
- [C13] **Jundong Li**, Xia Hu, Liang Wu, Huan Liu. “Unsupervised Streaming Feature Selection in Social Media”, In Proceedings of the 16th SIAM International Conference on Data Mining (SDM). May 5-7, 2016, Miami, USA.
- [C14] **Jundong Li**, Xia Hu, Jiliang Tang, Huan Liu. “Unsupervised Streaming Feature Selection in Social Media”, In Proceedings of the 24th ACM International Conference on Information and Knowledge Management (CIKM). Oct 19-23, 2015, Melbourne, Australia.
- [C15] **Jundong Li**, Osmar R. Zaïane “Associative Classification with Statistically Significant Positive and Negative Rules”, In Proceedings of the 24th ACM International Conference on Information and Knowledge Management (CIKM). Oct 19-23, 2015, Melbourne, Australia.
- [C16] **Jundong Li**, Osmar R. Zaïane, Alvaro Osornio-Vargas. “Discovering Statistically Significant Co-location Rules in Datasets with Extended Spatial Objects”, In Proceedings of the 16th International Conference on Data Warehousing and Knowledge Discovery (DaWaK). Sep 2-4, 2014, Munich, Germany.
- [C17] **Jundong Li**, Jörg Sander, Ricardo G.J.B. Campello, Arthur Zimek. “Active Learning Strategies for Semi-supervised DBSCAN”, In Proceedings of the 27th Canadian Conference on Artificial Intelligence (AI). May 6-9, 2014, Montreal, Canada.

TEACHING EXPERIENCES	Teaching Assistant, Computer Science, ASU	Aug 2014 - Dec 2014		
	<ul style="list-style-type: none"> • CSE 205: Object-oriented programming and data structures • CSE 412: Database management 			
	Teaching Assistant, Computing Science, UAlberta	Sep 2012 - May 2013		
	<ul style="list-style-type: none"> • CMPUT 174: Introduction to the foundations of computation I 			
INVENTION DISCLOSURES	<ul style="list-style-type: none"> • M16-052P: Systems and Methods for Unsupervised Streaming Feature Selection in Social Media (2016) 			
HONORS AND AWARDS	<ul style="list-style-type: none"> • University Graduate Fellowship, ASU • SDM Student Travel Award • CIDSE Department Nomination for Microsoft Fellowship, ASU • ICDM Student Travel Award • CIKM Student Travel Award • GSA Professional Development Award, UAlberta • FGSR Travel Award, UAlberta • Computing Science Department GPA Award, UAlberta • CS Department Nomination for BMO Scholarship, UAlberta 	<p>2017</p> <p>2017</p> <p>2016</p> <p>2016</p> <p>2015</p> <p>2014</p> <p>2014</p> <p>2014</p> <p>2013</p>		
	PRESENTATIONS & TALKS	<ul style="list-style-type: none"> • “Toward Personalized Relational Learning”, in SDM conference, Houston, USA, 2017. • “Toward Time-Evolving Feature Selection on Dynamic Networks”, in ICDM conference, Barcelona, Spain, 2016. • “Understanding and Predicting Delay in Reciprocal Relations”, in Yahoo! Research, Sunnyvale, USA, 2016. • “Dynamic Attributed Network Embedding”, in Yahoo! Research, Sunnyvale, USA, 2016. • “Multi-Label Informed Feature Selection”, in IJCAI conference, New York, USA, 2016. • “Robust Unsupervised Feature Selection on Networked Data”, in SDM conference, Miami, USA, 2016. • “Unsupervised Streaming Feature Selection in Social Media”, in CIKM conference, Melbourne, Australia, 2015. • “Associative Classification with Statistically Significant Positive and Negative Rules”, in CIKM conference, Melbourne, Australia, 2015. • “Active Learning Strategies for Semi-supervised DBSCAN”, in Canadian AI conference, Montreal, Canada, 2014. 		
		SERVICE	Conference Session Chair:	<ul style="list-style-type: none"> • 2017 SIAM International Conference on Data Mining, CP 16: Optimization Methods
			Program Committee:	<ul style="list-style-type: none"> • International Joint Conference on Artificial Intelligence (IJCAI), 2017
			Journal Reviewer:	<ul style="list-style-type: none"> • Journal of Machine Learning Research (JMLR) • Machine Learning Journal (MLJ) • IEEE Transactions on Knowledge and Data Engineering (TKDE) • IEEE Transactions on Big Data (TBD) • IEEE Intelligent System (IS) • IEEE Transactions on Multimedia (TMM) • IEEE Transactions on Image Processing (TIP) • ACM Transactions on Knowledge Discovery from Data (TKDD)

- Data Mining and Knowledge Discovery (DMKD)
- Knowledge and Information Systems (KAIS)
- Pattern Recognition (PR)
- Neurocomputing (NEUCOM)
- Journal of Computer Science and Technology (JCST)
- Frontiers in Disaster Communications

Conference External Reviewer:

- AAAI Conference on Artificial Intelligence (AAAI), 2016, 2017
- International Joint Conference on Artificial Intelligence (IJCAI), 2015
- ACM International Conference on Information and Knowledge Management (CIKM), 2016
- ACM International Conference on Web Search and Data Mining (WSDM), 2016, 2017
- ACM International Conference on World Wide Web (WWW), 2015, 2016
- ACM Conference on Recommender Systems (Recsys), 2015
- SIAM International Conference on Data Mining (SDM), 2015, 2016, 2017
- IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), 2015, 2016, 2017
- Asian Conference on Machine Learning (ACML), 2016
- International Conference on Healthcare Informatics (ICHI), 2015

Conference Volunteer:

- ACM SIGKDD Conferences on Knowledge Discovery and Data Mining (KDD), 2016

REFERENCES

Available upon requests