

## Jundong Li

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### CONTACT INFORMATION

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### RESEARCH INTERESTS

- **Data Mining:** feature selection; network embedding; attributed network mining; data stream mining; dynamic network mining; anomaly detection; clustering; recommender systems; pattern mining; spatial data mining; spatio-temporal data mining
- **Machine Learning:** representation learning; active learning; relational learning; online learning; deep learning; human-in-the-loop learning; multi-label/view learning
- **Social Computing:** social network analysis; user behavior study; cyberbullying detection; social mental health; social cybersecurity

### EDUCATION

**Arizona State University**, Tempe, Arizona, USA

Ph.D., Computer Science and Engineering Aug 2014 - Present

- Thesis: *Learning with Attributed Networks: Algorithms and Applications*
- Advisor: Huan Liu, Ph.D, Fellow of IEEE
- GPA: 4.00/4.00

**University of Alberta**, Edmonton, Alberta, Canada

M.Sc., Department of Computing Science Sep 2012 - Jul 2014

- Thesis: *Statistically Significant Dependencies for Spatial Co-location Pattern Mining and Classification Association Rule Discovery*
- Advisor: Osmar R. Zaiane, Ph.D.
- GPA: 4.00/4.00

**Zhejiang University**, Hangzhou, Zhejiang, China

B.Eng., College of Computer Science and Technology Aug 2008 - Jun 2012

- Thesis: *Manifold Sparse Coding for Image Classification*
- Advisor: Jiajun Bu, Ph.D.
- GPA: 3.71/4.00

### PROFESSIONAL EXPERIENCES

**Research Assistant**, Computer Science and Engineering, ASU Dec 2014 - Present  
Advisor: Huan Liu, Ph.D., Fellow of IEEE

**Intern Scientist**, Yahoo! Research, Sunnyvale, USA May 2016 - Aug 2016  
Mentor: Yi Chang, Ph.D. and Jiliang Tang, Ph.D.

**Research Assistant**, Computing Science, UAlberta May 2013 - Jul 2014  
Advisor: Osmar R. Zaiane, Ph.D.

### SUMMARY OF PUBLICATIONS

My publications span across the following areas (representative publications included):

- **Feature Selection:** [T1], [J3], [J5], [J7], [C11], [C17], [C19], [C26], [C27], [C28], [C29], [C30]
  - **Jundong Li**, Kewei Cheng, Suhang Wang, Fred Morstatter, Robert P. Trevino, Jiliang Tang, Huan Liu. “Feature Selection: A Data Perspective”, ACM Computing Surveys (CSUR), 50(6): 94:1-94:45, 2017.
- **Network Embedding:** [J1], [C5], [C9], [C14], [C15], [C22], [C25], [M2]
  - **Jundong Li**, Harsh Dani, Xia Hu, Jiliang Tang, Yi Chang, Huan Liu. “Attributed Network Embedding for Learning in a Dynamic Environment”, ACM International Conference on Information and Knowledge Management (CIKM), 2017.

- **Dynamic Network Mining:** [J4], [C8], [C13], [C15], [C26]
  - **Jundong Li**, Kewei Cheng, Liang Wu, Huan Liu. “Streaming Link Prediction on Dynamic Attributed Networks”, ACM International Conference on Web Search and Data Mining (**WSDM**), 2018.
- **Anomaly Detection:** [C2], [C7], [C18]
  - **Jundong Li**, Harsh Dani, Xia Hu, Huan Liu. “Radar: Residual Analysis for Anomaly Detection in Attributed Networks”, International Joint Conference on Artificial Intelligence (**IJCAI**), 2017.
- **User Behavior Study:** [C8], [C10], [C20], [C21], [C24]
  - **Jundong Li**, Jiliang Tang, Yilin Wang, Yali Wan, Yi Chang, Huan Liu. “Understanding and Predicting Delay in Reciprocal Relations”, The Web Conference (**WWW**), 2018.
- **Computational Health:** [J10], [C1], [C16], [C23]
  - **Jundong Li**, Aibek Adilmagambetov, M. Shazan M. Jabbar, Osmar R. Zaiane, Alvaro Osornio-Vargas, Osnat Wine. “On Discovering Co-Location Patterns in Datasets: A Case Study of Pollutants and Child Cancers”, **Geoinformatica**, 20(4), 651-692, 2016.

#### PUBLICATIONS

- Published: **1** Tutorial, **1** Book Chapter, **10** Journal Papers and **33** Conference Papers
- Impact: **600+** citations, h-index: **12**, i0-index: **16**  
(source: <https://scholar.google.com/citations?user=uY6ek7sAAAAJ&hl=en>, Oct 22, 2018)

#### Tutorials

- [T1] **Jundong Li**, Jiliang Tang, Huan Liu. “Recent Advances in Feature Selection: A Data Perspective”, ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (**KDD**), 2017.

#### Book Chapters

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

#### Refereed Journal Publications

- [J1] Xiao Huang, **Jundong Li**, Na Zou, Xia Hu. “A General Embedding Framework for Heterogeneous Information Learning”, ACM Transactions on Knowledge Discovery from Data (**TKDD**), 12(6): 70:1-70:24, 2018.
- [J2] Xuying Meng, Suhang Wang, Kai Shu, **Jundong Li**, Bo Chen, Huan Liu, Yujun Zhang. “Towards Privacy Preserving Social Recommendation under Personalized Privacy Settings”, World Wide Web Journal (**WWWJ**), 2018. (To Appear)
- [J3] Ling Jian, **Jundong Li**, Huan Liu. “Exploiting Multi-Label Information for Noise Resilient Feature Selection”, ACM Transactions on Intelligent Systems and Technology (**TIST**), 9(5): 52:1-52:23, 2018.
- [J4] Ling Jian, **Jundong Li**, Huan Liu. “Toward Online Node Classification on Streaming Networks”, Data Mining and Knowledge Discovery (**DMKD**), 32(1): 231-257, 2018.
- [J5] **Jundong Li**, Kewei Cheng, Suhang Wang, Fred Morstatter, Robert P. Trevino, Jiliang Tang, Huan Liu. “Feature Selection: A Data Perspective”, ACM Computing Surveys (**CSUR**), 50(6): 94:1-94:45, 2017.
- [J6] Ling Jian, **Jundong Li**, Shihua Luo. “Exploiting Expertise Rules for Statistical Data-Driven Modeling”, IEEE Transactions on Industrial Electronics (**TIE**), 64(11): 8647-8656, 2017.

- [J7] **Jundong Li**, Huan Liu. “Challenges of Feature Selection for Big Data Analytics”, *IEEE Intelligent Systems (IS)*, 32(2): 9-15, 2017.
- [J8] Ling Jian, Shuqian Shen, **Jundong Li**, Xijun Liang, Lei Li. “Budget Online Learning Algorithm for Least Squares SVM”, *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, 28(9): 2076-2087, 2017.
- [J9] **Jundong Li**, Osmar R. Zaiane. “Exploiting Statistically Significant Dependent Rules for Associative Classification”, *Intelligent Data Analysis: An International Journal (IDA)*, 21(5): 1155-1172, 2017.
- [J10] **Jundong Li**, Aibek Adilmagambetov, M. Shazan M. Jabbar, Osmar R. Zaiane, Alvaro Osornio-Vargas, Osnat Wine. “On Discovering Co-Location Patterns in Datasets: A Case Study of Pollutants and Child Cancers”, *Geoinformatica*, 20(4), 651-692, 2016.

### Refereed Conference Publications

- [C1] Lu Cheng, **Jundong Li**, Yasin N. Silva, Deborah Hall, Huan Liu. “XBully: Cyberbullying Detection within a Multi-Modal Context”, *ACM International Conference on Web Search and Data Mining (WSDM)*, 2019.
- [C2] Kaize Ding, **Jundong Li**, Huan Liu. “Interactive Anomaly Detection on Attributed Networks”, *ACM International Conference on Web Search and Data Mining (WSDM)*, 2019.
- [C3] Shan-Yun Teng, **Jundong Li**, Lo-Pang-Yun Ting, Kun-Ta Chuang, Huan Liu. “Interactive Unknowns Recommendation in E-Learning Systems”, *IEEE International Conference on Data Mining (ICDM)*, 2018.
- [C4] Junliang Yu, Min Gao, **Jundong Li**, Hongzhi Yin, Huan Liu. “Adaptive Implicit Friends Identification over Heterogeneous Network for Social Recommendation”, *ACM International Conference on Information and Knowledge Management (CIKM)*, 2018.
- [C5] Ninghao Liu, Xiao Huang, **Jundong Li**, Xia Hu. “On Interpretation of Network Embedding via Taxonomy Induction”, *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, 2018.
- [C6] Ruocheng Guo, **Jundong Li**, Huan Liu. “INITIATOR: Noise-contrastive Estimation for Marked Temporal Point Process”, *International Joint Conference on Artificial Intelligence (IJCAI)*, 2018.
- [C7] Zhen Peng, Minnan Luo, **Jundong Li**, Huan Liu, Qinghua Zheng. “ANOMALOUS: A Joint Modeling Approach for Anomaly Detection on Attributed Networks”, *International Joint Conference on Artificial Intelligence (IJCAI)*, 2018.
- [C8] **Jundong Li**, Jiliang Tang, Yilin Wang, Yali Wan, Yi Chang, Huan Liu. “Understanding and Predicting Delay in Reciprocal Relations”, *The Web Conference (WWW)*, 2018.
- [C9] **Jundong Li**\*, Chen Chen\*, Hanghang Tong, Huan Liu. (\* equally contributed) “Multi-Layered Network Embedding”, *SIAM International Conference on Data Mining (SDM)*, 2018.
- [C10] Liang Wu, **Jundong Li**, Fred Morstatter, Huan Liu. “Toward Relational Learning with Misinformation”, *SIAM International Conference on Data Mining (SDM)*, 2018.
- [C11] **Jundong Li**, Liang Wu, Harsh Dani, Huan Liu. “Unsupervised Personalized Feature Selection”, *AAAI Conference on Artificial Intelligence (AAAI)*, 2018.

- [C12] Xuying Meng, Suhang Wang, Kai Shu, **Jundong Li**, Bo Chen, Huan Liu, Yujun Zhang. “Personalized Privacy-Preserving Social Recommendation”, AAAI Conference on Artificial Intelligence (AAAI), 2018.
- [C13] **Jundong Li**, Kewei Cheng, Liang Wu, Huan Liu. “Streaming Link Prediction on Dynamic Attributed Networks”, ACM International Conference on Web Search and Data Mining (WSDM), 2018.
- [C14] Xiao Huang, Qingquan Song, **Jundong Li**, Xia Hu. “Expert Cognition in Attributed Network Embedding”, ACM International Conference on Web Search and Data Mining (WSDM), 2018.
- [C15] **Jundong Li**, Harsh Dani, Xia Hu, Jiliang Tang, Yi Chang, Huan Liu. “Attributed Network Embedding for Learning in a Dynamic Environment”, ACM International Conference on Information and Knowledge Management (CIKM), 2017.
- [C16] Harsh Dani, **Jundong Li**, Huan Liu. “Sentiment Informed Cyberbullying Detection in Social Media”, European Conference on Machine Learning and Principles and Practice of Knowledge Discovery (ECML-PKDD), 2017.
- [C17] **Jundong Li**\*, Kewei Cheng\*, Huan Liu. (\* equally contributed) “Unsupervised Feature Selection in Signed Social Networks”, ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), 2017.
- [C18] **Jundong Li**, Harsh Dani, Xia Hu, Huan Liu. “Radar: Residual Analysis for Anomaly Detection in Attributed Networks”, International Joint Conference on Artificial Intelligence (IJCAI), 2017.
- [C19] **Jundong Li**, Jiliang Tang, Huan Liu. “Reconstruction based Unsupervised Feature Selection: An Embedded Approach”, International Joint Conference on Artificial Intelligence (IJCAI), 2017.
- [C20] **Jundong Li**, Liang Wu, Osmar R. Zaiane, Huan Liu. “Personalized Relational Learning”, SIAM International Conference on Data Mining (SDM), 2017.
- [C21] Liang Wu, **Jundong Li**, Xia Hu, Huan Liu. “Gleaning Wisdom From The Past: Early Detection of Emerging Rumors in Social Media”, SIAM International Conference on Data Mining (SDM), 2017.
- [C22] Xiao Huang, **Jundong Li**, Xia Hu. “Accelerated Attributed Network Embedding”, SIAM International Conference on Data Mining (SDM), 2017.
- [C23] 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”, International World Wide Web Conference (WWW), 2017.
- [C24] Kewei Cheng, **Jundong Li**, Jiliang Tang, Huan Liu. “Unsupervised Sentiment Analysis with Signed Social Networks”, AAAI Conference on Artificial Intelligence (AAAI), 2017.
- [C25] Xiao Huang, **Jundong Li**, Xia Hu. “Label Informed Attributed Network Embedding”, ACM International Conference on Web Search and Data Mining (WSDM), 2017.
- [C26] **Jundong Li**, Xia Hu, Ling Jian, Huan Liu. “Toward Time-Evolving Feature Selection on Dynamic Networks”, IEEE International Conference on Data Mining (ICDM), 2016.
- [C27] Kewei Cheng, **Jundong Li**, Huan Liu. “FeatureMiner: A Tool for Interactive Feature Selection” (demo), ACM International Conference on Information and Knowledge Management (CIKM), 2016.

- [C28] **Jundong Li\***, Ling Jian\*, Kai Shu, Huan Liu. (\* equally contributed) “Multi-Label Informed Feature Selection”, International Joint Conference on Artificial Intelligence (**IJCAI**), 2016.
- [C29] **Jundong Li**, Xia Hu, Liang Wu, Huan Liu. “Unsupervised Streaming Feature Selection in Social Media”, SIAM International Conference on Data Mining (**SDM**), 2016.
- [C30] **Jundong Li**, Xia Hu, Jiliang Tang, Huan Liu. “Unsupervised Streaming Feature Selection in Social Media”, ACM International Conference on Information and Knowledge Management (**CIKM**) 2015.
- [C31] **Jundong Li**, Osmar R. Zaïane “Associative Classification with Statistically Significant Positive and Negative Rules”, ACM International Conference on Information and Knowledge Management (**CIKM**), 2015.
- [C32] **Jundong Li**, Osmar R. Zaïane, Alvaro Osornio-Vargas. “Discovering Statistically Significant Co-location Rules in Datasets with Extended Spatial Objects”, International Conference on Data Warehousing and Knowledge Discovery (**DaWaK**), 2014.
- [C33] **Jundong Li**, Jörg Sander, Ricardo G.J.B. Campello, Arthur Zimek. “Active Learning Strategies for Semi-supervised DBSCAN”, Canadian Conference on Artificial Intelligence (**CAI**), 2014.

#### Abstracts

- [A1] Doina Kulick, Justin Sampson, **Jundong Li**, Huan Liu. “The Body Composition Index: A Novel Parameter to Diagnose Obesity and Body Fatness in General”, **Obesity Week**, 2017.

#### Preprint

- [M1] Ruo Cheng Guo, Lu Cheng, **Jundong Li**, P. Richard Hahn, Huan Liu . “A Survey of Learning Causality with Data: Problems and Methods”, arXiv:1809.09337.
- [M2] **Jundong Li**, Liang Wu, Huan Liu. “Multi-Level Network Embedding with Boosted Low-Rank Matrix Approximation”, arXiv:1808.08627.

#### TEACHING EXPERIENCE

- Co-Instructor, ASU** Aug 2018 - Dec 2018
- CSE 472: Social Media Mining
- Teaching Assistant and Guest Lecturer, ASU** Aug 2017 - Dec 2017
- CSE 691: Advanced Topics on Social Media Analysis
- Teaching Assistant, ASU** Aug 2014 - Dec 2014
- CSE 205: Object-Oriented Programming and Data Structures
  - CSE 412: Database Management
- Teaching Assistant, UAlberta** Sep 2012 - May 2013
- CMPUT 174: Introduction to the Foundations of Computation I

#### MENTORING EXPERIENCE

- Ph.D. Students
- **Kaize Ding**, PhD student at Arizona State University Oct 2017 - Present  
Research Topic: anomaly detection, reinforcement learning, deep learning  
Collaborated Papers: [C2]
  - **Lu Cheng**, PhD student at Arizona State University Oct 2017 - Present  
Research Topic: cyberbullying detection, personalized learning, network embedding  
Collaborated Papers: [C1]

- **Xiao Huang**, PhD student at Texas A&M University Oct 2015 - Aug 2017  
Research Topic: attributed network embedding  
Collaborated Papers: [J1], [C14], [C22], [C25]
- **Zhen Peng**, PhD student at Xi'an Jiaotong University Oct 2017 - Present  
Research Topic: network hashing, anomaly detection  
Collaborated Papers: [C7]
- **Shan-Yun Teng**, PhD student at National Cheng Kung University Apr 2018 - June 2018  
Research Topic: recommender systems, multi-armed bandit  
Collaborated Papers: [C3]
- **Yuening Li**, PhD student at Texas A&M University May 2018 - Present  
Research Topic: deep learning, anomaly detection
- **Raha Moraffah**, PhD student at Arizona State University July 2017 - Jan 2018  
Research Topic: feature selection, data stream mining

#### Master Students

- **Kewei Cheng**, Master student at Arizona State University Dec 2014 - Apr 2017  
Research Topic: feature selection, signed social networks, sentiment analysis  
Master Thesis: *Mining Signed Social networks Using Unsupervised Learning Algorithms*  
Collaborated Papers: [J5], [C13], [C17], [C24], [C27]
- **Harsh Dani**, Master student at Arizona State University Aug 2015 - Mar 2017  
Research Topic: cyberbullying detection, sentiment analysis  
Master Thesis: *Sentiment Informed Cyberbullying Detection in Social Media*  
Collaborated Papers: [C11], [C15], [C16], [C18]

#### SOFTWARE

Lead contributor of the open-source feature selection repository - *scikit-feature* with around 40 popular algorithms in feature selection research.

- Github: 640+ stars.
- KDnuggets 2017: *5 Machine Learning Projects You Can No Longer Overlook*
- KDnuggets 2016: *scikit-feature: Open-Source Feature Selection Repository in Python*

#### INVENTION DISCLOSURES

- M18-237P: A Sequential Event Prediction with Noise-Contrastive Estimation for Marked Temporal Point Process (2018)
- M18-226P: Improved Anomaly Detection in Attributed Networks (2018)
- M17-146P: Sentiment Informed Cyberbullying Detection in Social Media (2017)
- M16-052P: Systems and Methods for Unsupervised Streaming Feature Selection in Social Media (2016)

#### HONORS AND AWARDS

##### Scholarships

- University Graduate Fellowship, ASU 2018
- University Graduate Fellowship, ASU 2017
- CIDSE Department Nomination for Microsoft Fellowship, ASU 2016
- GSA Professional Development Award, UAlberta 2014
- Computing Science Department GPA Award, UAlberta 2014
- CS Department Nomination for BMO Scholarship, UAlberta 2013

##### Travel Awards

- SDM Student Travel Award 2018
- AAAI Student Travel Award 2018
- CIKM Student Travel Award 2017
- SIGKDD Student Travel Award 2017
- SDM Student Travel Award 2017
- ICDM Student Travel Award 2016
- CIKM Student Travel Award 2015
- FGSR Travel Award, UAlberta 2014

## INVITED TALKS

- **Leveraging Feature Selection for Learning in Attributed Networks**  
Nanjing University of Aeronautics and Astronautics, China July 24, 2017
- **Leveraging Feature Selection for Learning in Attributed Networks**  
Tsinghua University, China July 20, 2017
- **Leveraging Feature Selection for Learning in Attributed Networks**  
China University of Petroleum (East), China July 18, 2017
- **Understanding and Predicting Delay in Reciprocal Relations**  
Yahoo! Research, Sunnyvale, USA Aug 2016
- **Dynamic Attributed Network Embedding**  
Yahoo! Research, Sunnyvale, USA July 2016

## SERVICES

### Conference Session Chair:

- KDD 2018, Research Track Session RT13: Representation and Embedding II
- CIKM 2017, Workshop on Interpretable Data Mining (IDM)
- SDM 2017, CP 16: Optimization Methods

### Program Committee:

- SIAM International Conference on Data Mining (SDM), 2019
- The Web Conference (WWW), 2019
- Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD), 2019
- ACM International Conference on Web Search and Data Mining (WSDM), 2019
- AAAI Conference on Artificial Intelligence (AAAI), 2019
- IEEE International Conference on Big Data (BigData), 2018
- ACM International Conference on Information and Knowledge Management (CIKM), 2018 (Full Paper Track)
- ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), 2018 (Short Paper Track)
- ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2018 (Research Track)
- Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD), 2018
- International Joint Conference on Artificial Intelligence (IJCAI), 2018
- AAAI Conference on Artificial Intelligence (AAAI), 2018
- ACM International Conference on Web Search and Data Mining, workshop proposal (WSDM), 2018
- ACM International Conference on Information and Knowledge Management (CIKM), 2017 (Full Paper Track)
- International Joint Conference on Artificial Intelligence (IJCAI), 2017
- IEEE International Conference on Big Data (BigData), Special Session on Intelligent Data Mining, 2017

### Journal Reviewer:

- Journal of Machine Learning Research (JMLR)
- Machine Learning Journal (MLJ)
- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
- IEEE Transactions on Knowledge and Data Engineering (TKDE)
- IEEE Transactions on Big Data (TBD)
- IEEE Transactions on Multimedia (TMM)
- IEEE Transactions on Image Processing (TIP)
- IEEE Transactions on Industrial Electronics (TIE)
- IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)
- IEEE Transactions on Network Science and Engineering (TNSE)
- IEEE Transactions on Human-Machine Systems
- IEEE Intelligent System (IS)
- ACM Transactions on Knowledge Discovery from Data (TKDD)

- ACM Transactions on Intelligent Systems and Technology (TIST)
- Data Mining and Knowledge Discovery (DMKD)
- Knowledge and Information Systems (KAIS)
- Statistical Analysis and Data Mining (SAM)
- Social Network Analysis and Mining (SNAM)
- Pattern Recognition (PR)
- Neurocomputing (NEUCOM)
- Journal of Computer Science and Technology (JCST)
- Artificial Intelligence Review (AIRE)
- Pattern Recognition Letters
- Computational Intelligence
- Frontiers in Disaster Communications
- Journal of Healthcare Informatics Research
- IET Image Processing
- PLOS ONE
- Data in Brief

**Conference External Reviewer:**

- International Workshop on Mining and Learning with Graphs (MLG), 2018
- 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:**

- AAAI Conference on Artificial Intelligence (AAAI), 2018
- ACM SIGKDD Conferences on Knowledge Discovery and Data Mining (KDD), 2016, 2017

REFERENCES

**Huan Liu, Ph.D., Fellow of IEEE:**

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**Osmar R. Zaiane, Ph.D.:**

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**Jingrui He, Ph.D.:**

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(Last updated on October 23, 2018)