

# CURRICULUM vitae

## Jure LESKOVEC

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### *Academic positions held*

- ◇ **Stanford University**, Stanford , CA.  
Associate Professor.  
Department of Computer Science.  
2016 – present.
- ◇ **Stanford University**, Stanford , CA.  
Assistant Professor.  
Department of Computer Science.  
2009 – 2016.
- ◇ **Cornell University**, Ithaca, NY.  
Postdoctoral researcher.  
Department of Computer Science.  
2008 – 2009.

### *Non-academic positions held*

- ◇ **Chan Zuckerberg Biohub**, San Francisco , CA.  
Investigator.  
2017 – present.
- ◇ **Pinterest**, San Francisco , CA.  
Chief Scientists and head of Pinterest Labs.  
2015 – present.
- ◇ **Kosei**, Palo Alto CA.  
Co-founder.  
2014 – 2015.

### *Education*

- ◇ **Carnegie Mellon University**, Pittsburgh, PA.  
Ph.D. in Computational and Statistical Learning,  
Machine Learning Department, School of Computer Science.  
September 2008.
- ◇ **University of Ljubljana**, Slovenia.  
Diploma [B.Sc.] in Computer Science (Summa Cum Laude), May 2004.

### *Research interests*

Large real-world social and information networks, their evolution, and diffusion of information and influence through them. My research problems are motivated by massive data, the Web and on-line media.

### *Selected honors and awards*

- ◇ **DRC Faculty Scholar in the School of Engineering**, Stanford University, 2017.
- ◇ **Best paper award**, ACM Intl. Conf. on Computer-Supported Cooperative Work and Social Computing (CSCW), 2017.

- ◇ **Best research paper runner-up award**, ACM Intl. Conf. on Knowledge Discovery and Data Mining, KDD 2017.
- ◇ **Best student paper runner-up award**, ACM Intl. Conf. on Knowledge Discovery and Data Mining, KDD 2017.
- ◇ **Best paper award honorable mention**, ACM Intl. Conf. on World Wide Web, WWW 2017.
- ◇ **Lagrange prize**, 2015
- ◇ **Best demonstration award**, ACM SIGMOD, 2015
- ◇ **Best paper award honorable mention**, AAAI Conf. on Web and Social Media (ICWSM), 2015
- ◇ **Slovenian Ambassador of Science**, a national award given to a Slovenian native each year in recognition of outstanding achievements and global scientific impact, 2014.
- ◇ **Best paper runner-up award**, ACM Intl. Conf. on World Wide Web, WWW 2014.
- ◇ **Best paper award**, ACM Intl. Conf. on World Wide Web, WWW 2013.
- ◇ **Okawa Foundation Fellowship**, 2012.
- ◇ **Alfred P. Sloan Fellowship**, 2012.
- ◇ **Kavli Fellow**, National Academy of Sciences, *Frontiers of Science*, 2011.
- ◇ **Microsoft Research Faculty Fellowship**, 2011.
- ◇ **IEEE Intelligent Systems magazine “AI’s 10 to Watch”**, 2011.
- ◇ **Best student paper award**, ACM Intl. Conf. on Web Search and Data Mining, WSDM 2011.
- ◇ **Best application paper award**, IEEE Intl. Conf. on Data Mining, ICDM 2010.
- ◇ **Best research paper runner-up award**, ACM Intl. Conf. on Knowledge Discovery and Data Mining, KDD 2010.
- ◇ **IBM Faculty award**, 2009.
- ◇ **ACM SIGKDD Dissertation Award** 2009.
- ◇ **Best Research Paper Award** at ASCE Journal of Water Resources Planning and Management Engineering, 2009.
- ◇ **Best student paper award**, ACM Intl. Conf. on Knowledge Discovery and Data Mining, KDD 2007.
- ◇ **Best solution of Battle of the Water Sensor Networks (BWSN)** competition on sensor placement in water distribution networks, 2007.
- ◇ **Microsoft Graduate Research Fellowship**, 2006 – 2008.
- ◇ **Best research paper award**, ACM Intl. Conf. on Knowledge Discovery and Data Mining, KDD 2005.
- ◇ **Winner of the ACM KDD Cup 2003** on estimating the download rate of scientific articles on Arxiv. KDD Cup is a data mining competition held in conjunction with the Annual ACM SIGKDD Conference.
- ◇ **Best innovation for disabled people**. Govorec, a Slovenia text to speech system I built, was awarded by the Government of the Slovenia for best innovation for disabled of the year 2001.at 1999
- ◇ **2nd prize at European Union Contest for Young Scientists**, 1999.

◇ **Journals**

- Dafna Shahaf, Carlos Guestrin, Eric Horvitz, Jure Leskovec. Information Cartography. *Communications of the ACM (CACM)*, Vol. 58, No. 11, pp. 62-73, 2015.
  - Jure Leskovec, Eric Horvitz. Geospatial Structure of a Planetary-Scale Social Network. *IEEE Transactions on Computational Social Systems (TCSS)*, 2015.
  - Jaewon Yang, Jure Leskovec. Overlapping Communities Explain CorePeriphery Organization of Networks. *Proceedings of the IEEE*, vol.102, no.12, pp.1892-1902, 2014.
  - Robert West, Hristo S. Paskov, Jure Leskovec, Christopher Potts. Exploiting Social Network Structure for Person-to-Person Sentiment Analysis. *Transactions of the Association for Computational Linguistics (TACL)*, 2014.
  - Julian McAuley, Jure Leskovec. Discovering Social Circles in Ego Networks. *ACM Transactions on Knowledge Discovery from Data (TKDD)*, 2014.
  - Manuel Gomez-Rodriguez, Jure Leskovec, David Balduzzi, Bernard Schoelkopf. Uncovering the Structure and Temporal Dynamics of Information Propagation *Network Science*, 2014.
  - Jaewon Yang, Jure Leskovec. Structure and Overlaps of Ground-truth Communities in Networks: Patterns and a Model. *ACM Transactions on Intelligent Systems and Technology (TIST)*, 2014.
  - Jaewon Yang, Jure Leskovec. Defining and Evaluating Network Communities based on Ground-truth. *Knowledge and Information Systems (KAIS)*, 2013.
  - Dan J. Wang, Xiaolin Shi, Daniel A. McFarland, Jure Leskovec. Measurement error in network data: a re-classification. *Social Networks*, 2012.
  - Myunghwan Kim, Jure Leskovec. Multiplicative attribute graph model of real-world networks. *Internet Mathematics*, 2012.
  - Manuel Gomez-Rodriguez, Jure Leskovec, Andreas Krause. Inferring networks of diffusion and influence. *ACM Transactions on Knowledge Discovery from Data (TKDD)*, 5(4):1–27, 2012.
  - U. Kang, Charalampos E. Tsourakakis, Ana Paula Appel, Christos Faloutsos, Jure Leskovec. HADI: Mining radii of large graphs. *ACM Transactions on Knowledge Discovery from Data (TKDD)*, 2011.
  - Jure Leskovec, Deepayan Chakrabarti, Jon M. Kleinberg, Christos Faloutsos and Zoubin Ghahramani. Kronecker graphs: an approach to modeling networks. *Journal of Machine Learning Research*, 2010.
  - Jure Leskovec, Kevin Lang, Anirban Dasgupta and Michael Mahoney. Statistical properties of community structure in large social and information networks. *Internet Mathematics*, 6(1):29–123, 2009.
  - Andreas Krause, Jure Leskovec, Carlos Guestrin, Jeanne VanBriesen and Christos Faloutsos. Efficient Sensor Placement Optimization for Securing Large Water Distribution Networks. *Journal of Water Resources Planning and Management (JWRPM)*, 2008.
- Best research paper.**
- Jure Leskovec, Jon M. Kleinberg and Christos Faloutsos. Graph evolution: Densification and shrinking diameters. *ACM Transactions on Knowledge Discovery from Data (TKDD)*, 1(1):2, 2007.
  - Jure Leskovec, Lada A. Adamic and Bernardo A. Huberman. The dynamics of viral marketing. *ACM Transactions on the Web (TWEB)*, 1(1):2, 2007.

- Deepayan Chakrabarti, Yang Wang, Chenxi Wang, Jure Leskovec, Christos Faloutsos. Epidemic thresholds in real networks. *ACM Transactions on Information and System Security (TISSEC)*, 10(4):1–26, 2008.
- Janez Brank, Jure Leskovec. The download estimation task on KDD cup 2003. *SIGKDD Explorations*, 5(2):160-162, 2003.

◇ **Refereed conference proceedings:**

- David Hallac, Jure Leskovec, Steven Boyd. Network Lasso: Clustering and Optimization in Large Graphs. *KDD '14: ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, 2015.*
- Q. Zhao, Murat Erdogdu, Hera He, Anand Rajaraman, Jure Leskovec. SEISMIC: A Self-Exciting Point Process Model for Predicting Tweet Popularity. *KDD '14: ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, 2015.*
- Julian McAuley, Rahul Pandey, Jure Leskovec. Inferring Networks of Substitutable and Complementary Products. *KDD '14: ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, 2015.*
- Justin Cheng, Cristian Danescu-Niculescu-Mizil, Jure Leskovec. Antisocial Behavior in Online Discussion Communities. *ICWSM '15: AAAI International Conference on Weblogs and Social Media, 2015. Best paper award honorable mention.*
- Tim Althoff, Jure Leskovec. Donor Retention in Online Crowdfunding Communities: A Case Study of DonorsChoose.org. *WWW '15: ACM International Conference on World Wide Web, 2015.*
- Robert West, Ashwin Paranjape, Jure Leskovec. Mining Missing Hyperlinks from Human Navigation Traces: A Case Study of Wikipedia. *WWW '15: ACM International Conference on World Wide Web, 2015.*
- Vlad Niculae, Caroline Suen, Justine Zhang, Cristian Danescu-Niculescu-Mizil, Jure Leskovec. QUOTUS: The Structure of Political Media Coverage as Revealed by Quoting Patterns. *WWW '15: ACM International Conference on World Wide Web, 2015.*
- Ashton Anderson, Dan Huttenlocher, Jon Kleinberg, Jure Leskovec, Mitul Tiwari. Global Diffusion via Cascading Invitations: Structure, Growth, and Homophily. *WWW '15: ACM International Conference on World Wide Web, 2015.*
- Yonathan Perez, Rok Susic, Arijit Banerjee, Rohan Puttagunta, Martin Raison, Pararth Shah, Jure Leskovec. Ringo: Interactive Graph Analytics on Big-Memory Machines. *SIGMOD '15: ACM International Conference on Management of Data, 2015. Best demonstration award.*
- Austin Benson, David Gleich, Jure Leskovec. Tensor Spectral Clustering for Partitioning Higher-order Network Structures. *SDM '15: SIAM International Conference on Data Mining, 2015.*
- Himabindu Lakkaraju, Jure Leskovec, Jon Kleinberg, Sendhil Mullainathan. A Bayesian Framework for Modeling Human Evaluations. *SDM '15: SIAM International Conference on Data Mining, 2015.*
- Justin Cheng, Cristian Danescu-Niculescu-Mizil, Jure Leskovec. How Community Feedback Shapes User Behavior. *ICWSM '14: AAAI International Conference on Weblogs and Social Media, 2014.*
- Justin Cheng, Lada Adamic, Alex Dow, Jon Kleinberg, Jure Leskovec. Can Cascades be Predicted? *WWW '14: ACM International Conference on World Wide Web, 2014.*

- Ashton Anderson, Dan Huttenlocher, Jon Kleinberg, Jure Leskovec. Engaging with Massive Online Courses. *WWW '14: ACM International Conference on World Wide Web, 2014. Best research paper runner-up award.*
- Seth Myers, Jure Leskovec. The Bursty Dynamics of the Twitter Information Network. *WWW '14: ACM International Conference on World Wide Web, 2014.*
- Jaewon Yang, Julian McAuley, Jure Leskovec, Paea LePendou, Nigam Shah. Finding Progression Stages in Time-evolving Event Sequences. *WWW '14: ACM International Conference on World Wide Web, 2014.*
- Jaewon Yang, Julian McAuley, Jure Leskovec. Detecting Cohesive and 2-mode Communities in Directed and Undirected Networks. *WSDM '14: ACM International Conference on Web Search and Data Mining, 2014.*
- Aju Scaria, Rose Philip, Robert West, Jure Leskovec. The Last Click: Why Users Give up Information Network Navigation. *WSDM '14: ACM International Conference on Web Search and Data Mining, 2014.*
- Myunghwan Kim, Jure Leskovec. Nonparametric Multi-group Membership Model for Dynamic Networks. *NIPS '13: Neural Information Processing Systems, 2013.*
- Jaewon Yang, Julian McAuley, Jure Leskovec. Community Detection in Networks with Node Attributes. *ICDM '13: IEEE International Conference On Data Mining, 2013.*
- Julian McAuley, Jure Leskovec. Hidden Factors and Hidden Topics: Understanding Rating Dimensions with Review Text. *RecSys '13: ACM Conference on Recommender Systems, 2013.*
- Dafna Shahaf, Jaewon Yang, Caroline Suen, Jeff Jacobs, Haidi Wang, Jure Leskovec. Information Cartography: Creating Zoomable, Large-Scale Maps of Information. *KDD '13: ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, 2013.*
- Cristian Danescu-Niculescu-Mizil, Moritz Sudhof, Dan Jurafsky, Jure Leskovec, Christopher Potts. A computational approach to politeness with application to social factors. *ACL '13: Annual Meeting of the Association for Computational Linguistics, 2013.*
- Manuel Gomez-Rodriguez, Jure Leskovec, Bernard Schoelkopf. Modeling Information Propagation with Survival Theory. *ICML '13: International Conference on Machine Learning, 2013.*
- Himabindu Lakkaraju, Julian McAuley, Jure Leskovec. What's in a name? Understanding the Interplay between Titles, Content, and Communities in Social Media. *ICWSM '13: AAAI International Conference on Weblogs and Social Media, 2013.*
- Ashton Anderson, Daniel Huttenlocher, Jon Kleinberg, Jure Leskovec. Steering User Behavior With Badges. *WWW '13: ACM International conference on World Wide Web, 2013.*
- Julian McAuley, Jure Leskovec. From Amateurs to Connoisseurs: Modeling the Evolution of User Expertise through Online Reviews. *WWW '13: ACM International conference on World Wide Web, 2013.*
- Caroline Suen, Sandy Huang, Chantat Eksombatchai, Rok Sasic, Jure Leskovec. NIFTY: A System for Large Scale Information Flow Tracking and Clustering. *WWW '13: ACM International conference on World Wide Web, 2013.*
- Cristian Danescu-Niculescu-Mizil, Robert West, Dan Jurafsky, Jure Leskovec, Christopher Potts. No Country for Old Members: User lifecycle and linguistic change in online communities. *WWW '13: ACM International conference on World Wide Web, 2013. Best research paper award.*
- Jaewon Yang, Jure Leskovec. Overlapping Community Detection at Scale: A Nonnegative Matrix Factorization Approach. *WSDM '13: ACM International Conference on Web Search and Data Mining, 2013.*

- Manuel Gomez-Rodriguez, Jure Leskovec, Bernard Schoelkopf. Structure and Dynamics of Information Pathways in Online Media. *WSDM '13: ACM International Conference on Web Search and Data Mining*, 2013.
- Jaewon Yang, Jure Leskovec. Community-Affiliation Graph Model for Overlapping Community Detection. *ICDM '12: IEEE International Conference on Data Mining*, 2012.
- Seth Myers, Jure Leskovec. Clash of the Contagions: Cooperation and Competition in Information Diffusion. *ICDM '12: IEEE International Conference on Data Mining*, 2012.
- Jaewon Yang, Jure Leskovec. Defining and Evaluating Network Communities based on Ground-truth. *ICDM '12: IEEE International Conference on Data Mining*, 2012.
- Julian McAuley, Jure Leskovec, and Dan Jurafsky. Learning Attitudes and Attributes from Multi-Aspect Reviews. *ICDM '12: IEEE International Conference on Data Mining*, 2012.
- Julian McAuley, Jure Leskovec. Learning to Discover Social Circles in Ego Networks. *NIPS '12: Neural Information Processing Systems*, 2012.
- Julian McAuley, Jure Leskovec. Image Labeling on a Network: Using Social-Network Metadata for Image Classification. *ECCV '12: European Conference on Computer Vision*, 2012.
- Seth Myers, Chenguang Zhu, Jure Leskovec. Information Diffusion and External Influence in Networks. *KDD '12: ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, 2012.
- Ashton Anderson, Daniel Huttenlocher, Jon Kleinberg, Jure Leskovec. Discovering Value from Community Activity on Focused Question Answering Sites: A Case Study of Stack Overflow. *KDD '12: ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, 2012.
- Myunghwan Kim, Jure Leskovec. Latent Multi-group Membership Graph Model. *ICML '12: International Conference on Machine Learning*, 2012.
- Robert West, Jure Leskovec. Automatic versus Human Navigation in Information Networks. *ICWSM '12: AAAI International Conference on Weblogs and Social Media*, 2012.
- Robert West, Jure Leskovec. Human wayfinding in information networks. *WWW '12: ACM International conference on World Wide Web*, 2012.
- Sanjay Kairam, Dan Wang, Jure Leskovec. The life and death of online groups: predicting group growth and longevity. *WSDM '12: ACM International Conference on Web Search and Data Mining*, 2012.
- Ashton Anderson, Daniel Huttenlocher, Jon Kleinberg, Jure Leskovec. Effects of user similarity in social media. *WSDM '12: ACM International Conference on Web Search and Data Mining*, 2012.
- Eldar Sadikov, Montse Medina, Jure Leskovec, Hector Garcia-Molina. Correcting for missing data in information cascades. *WSDM '11: ACM International Conference on Web Search and Data Mining*, 2011. **Best student paper award.**
- Myunghwan Kim, Jure Leskovec. Modeling social networks with node attributes using the multiplicative attribute graph model. *UAI '11: Conference on Uncertainty in Artificial Intelligence*, 2011.
- Eunjoon Cho, Seth A. Myers, Jure Leskovec. Friendship and mobility: user movement in location-based social networks. *KDD '11: ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, 2011.
- Mahalia Miller, Conal Sathi, Daniel Wiesenhal, Jure Leskovec, Christopher Potts. Sentiment flow through hyperlink networks. *ICWSM '11: AAAI International Conference on Weblogs and Social Media*, 2011.

- Stephen Guo, Mengqiu Wang, Jure Leskovec. The role of social networks in online shopping: information passing, price of trust, and consumer choice. *EC '11: ACM Conference on Electronic Commerce*, 2011.
- Simla Ceyhan, Xiaolin Shi, Jure Leskovec. Dynamics of bidding in a P2P lending service: effects of herding and predicting loan success. *WWW '11: ACM International conference on World Wide Web*, 2011.
- Myunghwan Kim, Jure Leskovec. The network completion problem: inferring missing nodes and edges in networks. *SDM '11: SIAM International Conference on Data Mining*, 2011.
- Lars Backstrom, Jure Leskovec. Supervised random walks: Predicting and recommending links in social networks. *WSDM '11: ACM International Conference on Web Search and Data Mining*, 2011.
- Jaewon Yang, Jure Leskovec. Patterns of temporal variation in online media. *WSDM '11: ACM International Conference on Web Search and Data Mining*, 2011.
- Jaewon Yang, Jure Leskovec. Modeling information diffusion in implicit networks. *ICDM '10: IEEE International Conference on Data Mining*, 2010. **Best application paper award.**
- Manuel Gomez-Rodriguez, Jure Leskovec, Andreas Krause. Inferring networks of diffusion and influence. *KDD '10: ACM SIGKDD international conference on Knowledge discovery in data mining*, 2010. **Best research paper runner-up.**
- Seth Myers, Jure Leskovec. On the convexity of latent social network inference. *NIPS '10: Neural Information Processing Systems*, 2010.
- Jure Leskovec, Daniel P. Huttenlocher, Jon M. Kleinberg. Signed networks in social media. *CHI '10: Conference on Human Factors in Computing Systems*, 2010.
- Jure Leskovec, Kevin J. Lang, Michael W. Mahoney. Empirical comparison of algorithms for network community detection. *WWW '10: International conference on World Wide Web*, 2010.
- Jure Leskovec, Daniel P. Huttenlocher, Jon M. Kleinberg. Predicting positive and negative links in online social networks. *WWW '10: International conference on World Wide Web*, 2010.
- Jure Leskovec, Daniel P. Huttenlocher, Jon M. Kleinberg. Governance in social media: a case study of the wikipedia promotion process. *ICWSM '10: AAAI Conference on Weblogs and Social Media*, 2010.
- Xiaolin Shi, Jure Leskovec, Daniel A. McFarland. Citing for high impact. In *JCDL '10: Joint International Conference on Digital Libraries*, 2010.
- U. Kang, Charalampos E. Tsourakakis, Ana Paula Appel, Christos Faloutsos, Jure Leskovec. Radius plots for mining tera-byte scale graphs: algorithms, patterns, and observations. *SDM '10: SIAM Conference on Data Mining*, 2010.
- Jure Leskovec, Lars Backstrom, Jon Kleinberg. Meme-tracking and the dynamics of the news cycle. *KDD '09: ACM SIGKDD international conference on Knowledge discovery in data mining*, 2009.
- Michaela Goetz, Jure Leskovec, Mary McGlohon and Christos Faloutsos. Modeling blog dynamics. *ICWSM '09: AAAI Conference on Weblogs and Social Media*, 2009.
- Ana Paula Appel, Deepayan Chakrabarti, Christos Faloutsos, Ravi Kumar, Jure Leskovec, Andrew Tomkins. ShatterPlots: Fast tools for mining large graphs. *SDM '09: SIAM Conference on Data Mining*, 2009.

- Jure Leskovec, Lars Backstrom, Ravi Kumar and Andrew Tomkins. Microscopic Evolution of Social Networks. *KDD '08: ACM SIGKDD international conference on Knowledge discovery in data mining*, 2008.
- Mukund Seshadri, Sridhar Machiraju, Ashwin Sridharan, Jean Bolot, Christos Faloutsos and Jure Leskovec. Mobile Call Graphs: Beyond Power-Law and Lognormal Distributions. *KDD '08: ACM SIGKDD international conference on Knowledge discovery in data mining*, 2008.
- Jure Leskovec, Kevin Lang, Anirban Dasgupta and Michael Mahoney. Statistical Properties of Community Structure in Large Social and Information Networks. *WWW '08: International conference on World Wide Web*, 2008.
- Jure Leskovec and Eric Horvitz. Planetary-Scale Views on a Large Instant-Messaging Network. *WWW '08: International conference on World Wide Web*, 2008.
- Jure Ferlez, Christos Faloutsos, Jure Leskovec, Dunja Mladenic and Marko Grobelnik. Monitoring Network Evolution using MDL. *ICDE '08: IEEE International Conference on Data Engineering*, 2008.
- Jure Leskovec andreas Krause, Carlos Guestrin, Christos Faloutsos, Jeanne VanBriesen and Natalie Glance. Cost-effective outbreak detection in networks. *KDD '07: ACM SIGKDD international conference on Knowledge discovery in data mining*, 2007. **Best student paper.**
- Jure Leskovec and Christos Faloutsos. Scalable modeling of real graphs using Kronecker multiplication. *ICML '07: International Conference on Machine Learning*, 2007.
- Jure Leskovec, Eric Horvitz and Susan Dumais. Web projections: Learning from contextual subgraphs of the web. *WWW '07: International conference on World Wide Web*, 2007.
- Jure Leskovec, Mary McGlohon, Christos Faloutsos, Natalie Glance and Matthew Hurst. Cascading behavior in large blog graphs. *SDM '07: SIAM Conference on Data Mining*, 2007.
- Deepayan Chakrabarti, Jure Leskovec, Christos Faloutsos, Samuel Madden, Carlos Guestrin and Michalis Faloutsos. Information survival threshold in sensor and P2P networks. *INFOCOM '07: IEEE Conference on Computer Communications*, 2007.
- Mary McGlohon, Jure Leskovec, Christos Faloutsos, Natalie Glance and Matthew Hurst. Finding patterns in blog shapes and blog evolution. *ICWSM '07: International Conference on Weblogs and Social Media*, 2007.
- Jure Leskovec, Lada A. Adamic and Bernardo A. Huberman. The dynamics of viral marketing. *EC '06: ACM conference on Electronic Commerce*, 2006. **Best paper nomination.**
- Jure Leskovec and Christos Faloutsos. Sampling from large graphs. *KDD '06: ACM SIGKDD international conference on Knowledge discovery and data mining*, 2006.
- Jure Leskovec, Ajit Singh and Jon M. Kleinberg. Patterns of influence in a recommendation network. *PAKDD '06: Pacific-Asia Conference on Knowledge Discovery and Data Mining*, 2006.
- Andreas Krause, Jure Leskovec and Carlos Guestrin. Data association for topic intensity tracking. *ICML '06: International Conference on Machine Learning*, 2006.
- Jure Leskovec, Jon M. Kleinberg and Christos Faloutsos. Graphs over time: densification laws, shrinking diameters and possible explanations. *KDD '05: ACM SIGKDD international conference on Knowledge discovery in data mining*, 2005.

**Best research paper.**



- Jure Leskovec, Deepayan Chakrabarti, Jon M. Kleinberg and Christos Faloutsos. Realistic, mathematically tractable graph generation and evolution, using Kronecker multiplication. *PKDD '05: European Conference on Principles and Practice of Knowledge Discovery in Databases*, 2005.
- Jure Leskovec, Natasa Milic-Frayling and Marko Grobelnik. Impact of linguistic analysis on the semantic graph coverage and learning of document extracts. *AAAI '05: National Conference on Artificial Intelligence*, 2005.
- Jure Leskovec and John Shawe-Taylor. Linear programming boosting for uneven datasets. *ICML '03: International Conference on Machine Learning*, 2003.

*Books and book chapters* ◊ **Mining of Massive Datasets**, 2nd-edition, co-authored with Anand Rajaraman and Jeff Ullman, Cambridge University Press, 2014.

- ◊ **Graph Algorithms in the Language of Linear Algebra**, edited by J. Kepner and J. Gilbert. Contributed a chapter on Stochastic Kronecker Graphs, 2011.

*Patents (granted and pending)* ◊ **Learning and reasoning from web projections** with Eric Horvitz and Susan Dumais. Filed June 2007.

- ◊ **Resource browser sessions search** with Ralph Sommerer, Robert Tucker and Natasa Milic-Frayling. No. 7225407, granted May 2007.
- ◊ **Navigating a resource browser session Patents** with Ralph Sommerer, Robert Tucker and Natasa Milic-Frayling. Filed June 2002.

*Teaching* ◊ Stanford CS224W: Social and Information Network Analysis (<http://cs224w.stanford.edu>). PhD level course on analysis of large networks and social media. The course is offered in Fall quarter each year. It was first offered in 2009 and current enrollment is 170 students.

- ◊ Stanford CS246: Mining Massive Datasets (<http://cs246.stanford.edu>). PhD level course on data mining and machine learning for massive datasets. The course is offered in Winter quarter each year. The course was first offered in 2011 and current enrollment is 300 students.

- ◊ Stanford CS341: Project in Mining Massive Datasets (<http://cs341.stanford.edu>). Project based course where students get access to a large computer cluster and perform a project on large scale data mining. The course is offered in Spring quarter each year.

- ◊ Stanford CS545: InfoSeminar (<http://cs545.stanford.edu>): Weekly seminar with speakers from academia and industry. The course is offered in Winter each year.

*Scientific community activities*

- ◊ **Software, tools and data**

- Stanford Network Analysis Platform (SNAP): Network analysis and graph mining platform that scales to graphs with hundreds of millions of nodes and billions of edges. All our research code is made public through SNAP. Over 1,000 downloads per month (Jan 2013). <http://snap.stanford.edu/snap>
- Stanford Large Network Dataset Collection: More than 80 publicly available network datasets. Over 100,000 monthly pageviews (Jan 2013). <http://snap.stanford.edu/data>
- NodeXL: a graphical front-end that integrates network analysis and SNAP into Microsoft Office and Excel. Downloaded 14,000 times (Oct 2014). <http://nodexl.codeplex.com>

- ◊ **Tutorials and summer schools**

- Tutorial on Large Scale Network Analytics with SNAP at ACM WWW 2015
- ACM WSDM Winter School, 2015
- Machine Learning Summer School, Beijing, China, 2014
- Tutorial on Large Scale Network Analytics with SNAP at AAAI ICWSM 2014
- Santa Fe Institute Complex Systems Summer School, Santa Fe, 2014
- Summer school, ACM SIGKDD Intl. Conf on Knowledge Discovery and Data Mining (KDD), 2012.
- Lipari Summer School on Complex Systems, 2012.
- Tutorial on Social Media Analytics at ACM SIGKDD ACM SIGKDD Intl. Conf on Knowledge Discovery and Data Mining (KDD) 2011.
- Tutorial on Analytics and Predictive Models for Social Media at ACM Intl. Conf. on World Wide Web (WWW), 2011.
- Santa Fe Institute Complex Systems Summer School, Santa Fe, 2010.
- Summer school on Networks and Network Analysis for Humanities, NEH Institute, IPAM, UCLA, 2010.
- Tutorial on modeling networks at Intl. Conf. on Machine Learning (ICML), 2009.
- Panelist at ACM SIGKDD Intl. Conf. on Knowledge Discovery and Data Mining (KDD), 2008.
- Tutorial at ACM Intl. Conf. on World Wide Web (WWW), 2008.
- Tutorial on Mining and Modeling Large Networks at ECML/PKDD, 2007.
- Tutorial on Diffusion and Cascading Behavior in Social Networks, NATO Advanced Study Institute on Mining Massive Data Sets for Security, 2007.
- Tutorial on Structure of Large Networks at NESCAI, 2007.
- ◇ **Workshops**
  - Co-organized Workshop on Wikipedia, a Social Pedia: Research Challenges and Opportunities, held in conjunction with AAAI ICWSM, 2015.
  - Co-organized Workshop on Frontiers of Network Analysis: Methods, Models, and Applications, held in conjunction with NIPS, 2013.
  - Co-organized Workshop on Mining and Learning with Graphs, held in conjunction with ACM KDD, 2013.
  - Co-organized workshop on Social Network and Social Media Analysis: Methods, Models and Applications held in conjunction with NIPS 2012.
  - Co-organized workshop on Networks Across Disciplines in Theory and Applications held in conjunction with NIPS 2010.
  - Co-organized workshop on Social Media Analytics (SOMA) held in conjunction with (KDD 2010).
  - Co-organized workshop on Analyzing Networks and Learning with Graphs held in conjunction with NIPS 2009.
- ◇ **Conference organization:**
  - Program Chair, ACM International Conference on Knowledge Discovery and Data Mining, (KDD), 2014
  - Editorial board IEEE Transactions on Network Science and Engineering
  - Editorial board Journal of Machine Learning Research (JMLR).

- Editorial board ACM Transactions on the Web (TWEB), 2011-2015.
- Editorial board Data Mining and Knowledge Discovery (DMKD).
- Tutorial chair at IEEE International Conference on Data Mining (ICDM) 2011.
- Chair of Social Systems and Graph Analysis track at WWW 2011.
- Chair of Machine learning and data mining track at WWW 2010.
- Student travel awards chair at ACM SIGKDD Intl. Conf. on Knowledge Discovery and Data Mining (KDD), 2009.
- ◇ **Senior program committee and program committee member:**
  - o ACM Intl. Conf. on Knowledge Discovery and Data Mining, (KDD): 2015-2008
  - ACM Intl. Conf. on Web Search and Data Mining (WSDM), 2015-2006
  - ACM Intl. Conf. on the World Wide Web (WWW), 2015-2008
  - AAAI Intl. Conf. on Weblogs and Social Media (ICWSM) 2015-2008
  - Intl. Conf. on Machine Learning (ICML), 2014-2006
  - Neural Information Processing Systems (NIPS), 2013,2014
  - International Conference on Artificial Intelligence and Statistics (AISTATS) 2012, 2010.
  - SIAM International Conference on Data Mining (SDM), 2012-2010
  - ACM Special Interest Group On Management of Data Conference (SIGMOD), 2012
  - ACM Conference on Human Factors in Computing Systems (CHI), 2011
  - IEEE International Conference on Data Engineering (ICDE), 2011
  - Association for Artificial Intelligence Conference (AAAI), 2011
  - Conference on Uncertainty in Artificial Intelligence, (UAI), 2010
  - European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD), 2010-2005
- ◇ **Reviewer for:** Science, PLoS One, Physical Review E (PRE), Journal of ACM (JACM), ACM Journal of Experimental Algorithmics (JEA), ACM Transactions on Knowledge Discovery from Data (ACM TKDD), ACM Transactions on the Web (TWEB), ACM Transactions on Information Systems (TOIS), Machine Learning Journal (MLJ), Journal of Machine Learning Research (JMLR), Transactions on Knowledge and Data Engineering (IEEE TKDE), Data Mining and Knowledge Discovery (DMKD).

*Selected press coverage*

- ◇ **Press coverage:**
  - The Chronicle of Higher Education on *Study of MOOCs Suggests Dropping the Label Dropout*, Jun 2014.
  - San Francisco Chronicle on *Why you'll share this article (or not)*, Apr 2014.
  - MIT Technology Review on *The Curious Nature of Sharing Cascades on Facebook*, Apr 2014.
  - Time Magazine on *How to Succeed on Reddit*, Sep 2013.
  - Forbes on *How to craft the perfect Reddit posting*, Sep 2013.
  - Business Insider on *Beer Experts Say These Are The 20 Best Beers In The World*, Sep 2013.
  - New Scientist on *What Reddit likes: Things that make a meme explode*, Jul 2013.

- Stanford University School of Engineering on *Big questions for big data: Stanford's Jure Leskovec*, Apr 2013.
- Robert Scoble, American blogger and technical evangelist, on *Stanford University's "Mr. Context"*, Jan 2013.
- MIT Technology review on *Algorithm predicts circles of friends using contacts data*, Nov 2012.
- Wired UK on *Algorithm can know your friendship circles better than you do*, Nov 2012.
- Wall Street Journal on *Decoding Our Chatter*, Sept 2011.
- Spark, Canadian Broadcasting Corporation, on *Predictive social network analysis*, Sept 2011.
- New York Times on *Why Some Twitter Posts Catch On, and Some Don't*, Feb 2011.
- MIT Technology Review on *Patterns of Temporal Variation in Online Media*, Jan 2011.
- New York Times on the *MemeTracker project that builds maps of what the Web is talking about*, Jul 2009.
- The Pew Foundation used the MemeTracker methodology in their analysis of the press coverage of the *Great Depression*, Oct 2009.
- Washington Post (front page!) on our study of the small world phenomenon and the six degrees of separation using Microsoft Instant Messenger, Aug 2008.
- MSNBC, Guardian, BBC, Nature News, The Wall Street Journal on *Six degrees of messaging*, summer 2008.
- MIT Technology Review on the *Dynamics of viral marketing*, Mar 2008.
- MSNBC on *ranking blogs and detecting outbreaks in networks*, Jan 2008.