



## Jure Leskovec

Alfred and Rebecca Lin Professor  
Computer Science

### CONTACT INFORMATION

- **Administrative Contact**

Lata Nair - Administrative Associate

**Email** lnair24@stanford.edu

**Tel** (650) 723-0872

### Bio

---

#### BIO

Jure Leskovec is Professor of Computer Science at Stanford University. He is affiliated with the Stanford AI Lab, Machine Learning Group and the Center for Research on Foundation Models. In the past, he served as a Chief Scientist at Pinterest and was an investigator at Chan Zuckerberg BioHub. Leskovec recently pioneered the field of Graph Neural Networks and co-authored PyG, the most widely-used graph neural network library. Research from his group has been used by many countries to fight COVID-19 pandemic, and has been incorporated into products at Facebook, Pinterest, Uber, YouTube, Amazon, and more.

His research received several awards including Microsoft Research Faculty Fellowship in 2011, Okawa Research award in 2012, Alfred P. Sloan Fellowship in 2012, Lagrange Prize in 2015, and ICDM Research Contributions Award in 2019. His research contributions have spanned social networks, data mining and machine learning, and computational biomedicine with the focus on drug discovery. His work has won 12 best paper awards and 5 10-year test of time awards at a premier venues in these research areas.

Leskovec received his bachelor's degree in computer science from University of Ljubljana, Slovenia, PhD in machine learning from Carnegie Mellon University and postdoctoral training at Cornell University.

#### ACADEMIC APPOINTMENTS

- Professor, Computer Science
- Member, Bio-X
- Faculty Affiliate, Institute for Human-Centered Artificial Intelligence (HAI)
- Member, Wu Tsai Neurosciences Institute

#### PROFESSIONAL EDUCATION

- BSc, University of Ljubljana, Slovenia, Computer Science (2004)
- PhD, Carnegie Mellon University, Computer Science (2008)

## LINKS

- My Personal Site: <http://cs.stanford.edu/~jure/>

## Teaching

---

### COURSES

#### 2025-26

- AI for Science: CS 524 (Aut)
- Machine Learning with Graphs: CS 224W (Aut)
- Mining Massive Data Sets: CS 246 (Win)

#### 2024-25

- Machine Learning with Graphs: CS 224W (Aut)
- Mining Massive Data Sets: CS 246 (Win)

#### 2023-24

- Machine Learning with Graphs: CS 224W (Aut)
- Mining Massive Data Sets: CS 246 (Win)

#### 2022-23

- Machine Learning with Graphs: CS 224W (Win)
- Mining Massive Data Sets: CS 246 (Spr)

### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Jessica Kain, Gowri Nayar

#### Master's Program Advisor

Alexandre Acra, Kyle Feinstein, Ananya Ganapathi, Tim Jing, Priya Khandelwal, Minyeong Kim, Grant Lau, Nathan Maidi, Antonio Noyola, Andrew Park, Daniel Reichfeld, Alex Rivas, Zara Rutherford, Akemi Sabatier, Christopher Sun, Jason Yan, Swetha Yogeswaran, Ethan Zhang

#### Doctoral Dissertation Co-Advisor (AC)

Jared Davis

#### Doctoral (Program)

Michael Bereket, Tianlang Chen, Jonas De Schouwer, Vignesh Kothapalli, Kuan Pang, Rishabh Ranjan, Marcel Roed, Yanay Rosen

#### Postdoctoral Research Mentor

Moritz Schaefer

## Publications

---

### PUBLICATIONS

- **Mutual interactors as a principle for phenotype discovery in molecular interaction networks.** *Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing*  
Eyuboglu, S., Zitnik, M., Leskovec, J.  
2023; 28: 61-72
- **Foundation models for generalist medical artificial intelligence.** *Nature*

- Moor, M., Banerjee, O., Abad, Z. S., Krumholz, H. M., Leskovec, J., Topol, E. J., Rajpurkar, P.  
2023; 616 (7956): 259-265
- **Hybrid forecasting of geopolitical events(dagger)** *AI MAGAZINE*  
Benjamin, D. M. M., Morstatter, F., Abbas, A. E. E., Abeliuk, A., Atanasov, P., Bennett, S., Beger, A., Birari, S., Budescu, D. V. V., Catasta, M., Ferrara, E., Haravitch, L., Himmelstein, et al  
2023; 44 (1): 112-128
  - **M2P2: Multimodal Persuasion Prediction Using Adaptive Fusion** *IEEE TRANSACTIONS ON MULTIMEDIA*  
Bai, C., Chen, H., Kumar, S., Leskovec, J., Subrahmanian, V. S.  
2023; 25: 942-952
  - **Annotation of spatially resolved single-cell data with STELLAR.** *Nature methods*  
Brbic, M., Cao, K., Hickey, J. W., Tan, Y., Snyder, M. P., Nolan, G. P., Leskovec, J.  
2022
  - **Combining Graph Convolutional Neural Networks and Label Propagation** *ACM TRANSACTIONS ON INFORMATION SYSTEMS*  
Wang, H., Leskovec, J.  
2022; 40 (4)
  - **Artificial intelligence foundation for therapeutic science.** *Nature chemical biology*  
Huang, K., Fu, T., Gao, W., Zhao, Y., Roohani, Y., Leskovec, J., Coley, C. W., Xiao, C., Sun, J., Zitnik, M.  
2022
  - **Fly Cell Atlas: A single-nucleus transcriptomic atlas of the adult fruit fly.** *Science (New York, N.Y.)*  
Li, H., Janssens, J., De Waegeneer, M., Kolluru, S. S., Davie, K., Gardeux, V., Saelens, W., David, F. P., Brbic, M., Spanier, K., Leskovec, J., McLaughlin, C. N., Xie, et al  
2022; 375 (6584): eabk2432
  - **Guest Editorial: Non-Euclidean Machine Learning** *IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE*  
Zafeiriou, S., Bronstein, M., Cohen, T., Vinyals, O., Song, L., Leskovec, J., Lio, P., Bruna, J., Gori, M.  
2022; 44 (2): 723-726
  - **Large-scale diet tracking data reveal disparate associations between food environment and diet.** *Nature communications*  
Althoff, T., Nilforoshan, H., Hua, J., Leskovec, J.  
1800; 13 (1): 267
  - **LinkBERT: Pretraining Language Models with Document Links**  
Yasunaga, M., Leskovec, J., Liang, P., Assoc Computat Linguist  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2022: 8003-8016
  - **Data-Driven Real-Time Strategic Placement of Mobile Vaccine Distribution Sites**  
Mehrab, Z., Wilson, M. L., Chang, S., Harrison, G., Lewis, B., Telionis, A., Crow, J., Kim, D., Spillmann, S., Peters, K., Leskovec, J., Marathe, M. V.,  
Assoc Advancement Artificial Intelligence  
ASSOC ADVANCEMENT ARTIFICIAL INTELLIGENCE.2022: 12573-12579
  - **Companies under stress: the impact of shocks on the production network** *EPJ DATA SCIENCE*  
Palovics, R., Dolenc, P., Leskovec, J.  
2021; 10 (1)
  - **Companies under stress: the impact of shocks on the production network.** *EPJ data science*  
Pálovics, R., Dolenc, P., Leskovec, J.  
2021; 10 (1): 57
  - **Leveraging the Cell Ontology to classify unseen cell types.** *Nature communications*  
Wang, S., Pisco, A. O., McGeever, A., Brbic, M., Zitnik, M., Darmanis, S., Leskovec, J., Karkani, J., Altman, R. B.  
2021; 12 (1): 5556
  - **Postmortem memory of public figures in news and social media.** *Proceedings of the National Academy of Sciences of the United States of America*  
West, R., Leskovec, J., Potts, C.

2021; 118 (38)

- **Daily, weekly, seasonal and menstrual cycles in women's mood, behaviour and vital signs.** *Nature human behaviour*  
Pierson, E., Althoff, T., Thomas, D., Hillard, P., Leskovec, J.  
2021
- **Temporal evolution of single-cell transcriptomes of Drosophila olfactory projection neurons.** *eLife*  
Xie, Q., Brbic, M., Horns, F., Kolluru, S. S., Jones, R. C., Li, J., Reddy, A. R., Xie, A., Kohani, S., Li, Z., McLaughlin, C. N., Li, T., Xu, et al  
2021; 10
- **An algorithmic approach to reducing unexplained pain disparities in underserved populations.** *Nature medicine*  
Pierson, E., Cutler, D. M., Leskovec, J., Mullainathan, S., Obermeyer, Z.  
2021; 27 (1): 136–40
- **LM-Critic: Language Models for Unsupervised Grammatical Error Correction**  
Yasunaga, M., Leskovec, J., Liang, P., Assoc Computat Linguist  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2021: 7752-7763
- **Bipartite Dynamic Representations for Abuse Detection**  
Wang, A. Z., Ying, R., Li, P., Rao, N., Subbian, K., Leskovec, J., ASSOC COMP MACHINERY  
ASSOC COMPUTING MACHINERY.2021: 3638-3648
- **Relational Message Passing for Knowledge Graph Completion**  
Wang, H., Ren, H., Leskovec, J., ASSOC COMP MACHINERY  
ASSOC COMPUTING MACHINERY.2021: 1697-1707
- **Supporting COVID-19 policy response with large-scale mobility-based modeling**  
Chang, S., Wilson, M. L., Lewis, B., Mehrab, Z., Dudakiya, K. K., Pierson, E., Koh, P., Gerardin, J., Redbird, B., Grusky, D., Marathe, M., Leskovec, J., ASSOC COMP MACHINERY  
ASSOC COMPUTING MACHINERY.2021: 2632-2642
- **F-FADE: Frequency Factorization for Anomaly Detection in Edge Streams**  
Chang, Y., Li, P., Sasic, R., Afifi, M. H., Schweighauser, M., Leskovec, J., ASSOC COMP MACHINERY  
ASSOC COMPUTING MACHINERY.2021: 589-597
- **Identity-aware Graph Neural Networks**  
You, J., Gomes-Selman, J. M., Ying, R., Leskovec, J., Assoc Advancement Artificial Intelligence  
ASSOC ADVANCEMENT ARTIFICIAL INTELLIGENCE.2021: 10737-10745
- **LEGO: Latent Execution-Guided Reasoning for Multi-Hop Question Answering on Knowledge Graphs**  
Ren, H., Dai, H., Dai, B., Chen, X., Yasunaga, M., Sun, H., Schuurmans, D., Leskovec, J., Zhou, D.  
edited by Meila, M., Zhang, T.  
JMLR-JOURNAL MACHINE LEARNING RESEARCH.2021
- **Inductive Learning on Commonsense Knowledge Graph Completion**  
Wang, B., Wang, G., Huang, J., You, J., Leskovec, J., Kuo, C., IEEE  
IEEE.2021
- **GNNAutoScale: Scalable and Expressive Graph Neural Networks via Historical Embeddings**  
Fey, M., Lenssen, J., Weichert, F., Leskovec, J.  
edited by Meila, M., Zhang, T.  
JMLR-JOURNAL MACHINE LEARNING RESEARCH.2021
- **WILDS: A Benchmark of in-the-Wild Distribution Shifts**  
Koh, P., Sagawa, S., Marklund, H., Xie, S., Zhang, M., Balsubramani, A., Hu, W., Yasunaga, M., Phillips, R., Gao, I., Lee, T., David, E., Stavness, et al  
edited by Meila, M., Zhang, T.  
JMLR-JOURNAL MACHINE LEARNING RESEARCH.2021
- **TEDIC: Neural Modeling of Behavioral Patterns in Dynamic Social Interaction Networks**  
Wang, Y., Li, P., Bai, C., Leskovec, J., ACM

ASSOC COMPUTING MACHINERY.2021: 693-705

- **Maximally selective single-cell target for circuit control in epilepsy models.** *Neuron*  
Hadjiabadi, D., Lovett-Barron, M., Raikov, I. G., Sparks, F. T., Liao, Z., Baraban, S. C., Leskovec, J., Losonczy, A., Deisseroth, K., Soltesz, I.  
2021
- **Identification of disease treatment mechanisms through the multiscale interactome.** *Nature communications*  
Ruiz, C., Zitnik, M., Leskovec, J.  
2021; 12 (1): 1796
- **Single-cell transcriptomes of developing and adult olfactory receptor neurons in Drosophila.** *eLife*  
McLaughlin, C. N., Brbić, M. n., Xie, Q. n., Li, T. n., Horns, F. n., Kolluru, S. S., Kebschull, J. M., Vacek, D. n., Xie, A. n., Li, J. n., Jones, R. C., Leskovec, J. n., Quake, et al  
2021; 10
- **Mobility network models of COVID-19 explain inequities and inform reopening.** *Nature*  
Chang, S., Pierson, E., Koh, P. W., Gerardin, J., Redbird, B., Grusky, D., Leskovec, J.  
2020
- **MARS: discovering novel cell types across heterogeneous single-cell experiments.** *Nature methods*  
Brbic, M., Zitnik, M., Wang, S., Pisco, A. O., Altman, R. B., Darmanis, S., Leskovec, J.  
2020
- **Gender Differences in Patient Perceptions of Physicians' Communal Traits and the Impact on Physician Evaluations.** *Journal of women's health (2002)*  
Chen, H. n., Pierson, E. n., Schmer-Galunder, S. n., Altamirano, J. n., Jurafsky, D. n., Leskovec, J. n., Fassiotto, M. n., Kothary, N. n.  
2020
- **OCEAN: Online Task Inference for Compositional Tasks with Context Adaptation**  
Ren, H., Zhu, Y., Leskovec, J., Anandkumar, A., Garg, A.  
edited by Peters, J., Sontag, D.  
JMLR-JOURNAL MACHINE LEARNING RESEARCH.2020: 1378-1387
- **Machine learning for integrating data in biology and medicine: Principles, practice, and opportunities** *INFORMATION FUSION*  
Zitnik, M., Nguyen, F., Wang, B., Leskovec, J., Goldenberg, A., Hoffman, M. M.  
2019; 50: 71–91
- **Machine Learning for Integrating Data in Biology and Medicine: Principles, Practice, and Opportunities.** *An international journal on information fusion*  
Zitnik, M., Nguyen, F., Wang, B., Leskovec, J., Goldenberg, A., Hoffman, M. M.  
2019; 50: 71–91
- **Pretraining deep learning molecular representations for property prediction**  
Liu, B., Hu, W., Leskovec, J., Liang, P., Pande, V.  
AMER CHEMICAL SOC.2019
- **Best practices for analyzing large-scale health data from wearables and smartphone apps.** *NPJ digital medicine*  
Hicks, J. L., Althoff, T., Sosic, R., Kuhar, P., Bostjancic, B., King, A. C., Leskovec, J., Delp, S. L.  
2019; 2: 45
- **Best practices for analyzing large-scale health data from wearables and smartphone apps** *NPJ DIGITAL MEDICINE*  
Hicks, J. L., Althoff, T., Sosic, R., Kuhar, P., Bostjancic, B., King, A. C., Leskovec, J., Delp, S. L.  
2019; 2
- **To Embed or Not: Network Embedding as a Paradigm in Computational Biology** *FRONTIERS IN GENETICS*  
Nelson, W., Zitnik, M., Wang, B., Leskovec, J., Goldenberg, A., Sharan, R.  
2019; 10
- **Goal-setting And Achievement In Activity Tracking Apps: A Case Study Of MyFitnessPal.** *Proceedings of the ... International World-Wide Web Conference. International WWW Conference*  
Gordon, M. L., Althoff, T., Leskovec, J.

2019; 2019: 571-582

- **To Embed or Not: Network Embedding as a Paradigm in Computational Biology.** *Frontiers in genetics*  
Nelson, W., Zitnik, M., Wang, B., Leskovec, J., Goldenberg, A., Sharan, R.  
2019; 10: 381
- **Inferring Multidimensional Rates of Aging from Cross-Sectional Data.** *Proceedings of machine learning research*  
Pierson, E., Koh, P. W., Hashimoto, T., Koller, D., Leskovec, J., Eriksson, N., Liang, P.  
2019; 89: 97–107
- **Evolution of resilience in protein interactomes across the tree of life.** *Proceedings of the National Academy of Sciences of the United States of America*  
Zitnik, M., Susic, R., Feldman, M. W., Leskovec, J.  
2019
- **Panel: Computational Methods about Knowledge Graph The First International Workshop on Knowledge Graph Technology and Applications**  
Tang, J., Leskovec, J., Wang, K., McGuinness, D., Sawaf, H., ACM  
ASSOC COMPUTING MACHINERY.2019: 677
- **G2SAT: Learning to Generate SAT Formulas**  
You, J., Wu, H., Barrett, C., Ramanujan, R., Leskovec, J.  
edited by Wallach, H., Larochelle, H., Beygelzimer, A., d'Alche-Buc, F., Fox, E., Garnett, R.  
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2019
- **Complete the Look: Scene-based Complementary Product Recommendation**  
Kang, W., Kim, E., Leskovec, J., Rosenberg, C., McAuley, J., IEEE Comp Soc  
IEEE.2019: 10524–33
- **Hyperbolic Graph Convolutional Neural Networks.** *Advances in neural information processing systems*  
Chami, I. n., Ying, R. n., Ré, C. n., Leskovec, J. n.  
2019; 32: 4869–80
- **GNNExplainer: Generating Explanations for Graph Neural Networks.** *Advances in neural information processing systems*  
Ying, R. n., Bourgeois, D. n., You, J. n., Zitnik, M. n., Leskovec, J. n.  
2019; 32: 9240–51
- **G2SAT: Learning to Generate SAT Formulas.** *Advances in neural information processing systems*  
You, J. n., Wu, H. n., Barrett, C. n., Ramanujan, R. n., Leskovec, J. n.  
2019; 32: 10552–63
- **Predicting Dynamic Embedding Trajectory in Temporal Interaction Networks.** *KDD : proceedings. International Conference on Knowledge Discovery & Data Mining*  
Kumar, S. n., Zhang, X. n., Leskovec, J. n.  
2019; 2019: 1269–78
- **The Local Closure Coefficient: A New Perspective On Network Clustering**  
Yin, H., Benson, A. R., Leskovec, J., ACM  
ASSOC COMPUTING MACHINERY.2019: 303–11
- **Hyperbolic Graph Convolutional Neural Networks**  
Chami, I., Ying, R., Re, C., Leskovec, J.  
edited by Wallach, H., Larochelle, H., Beygelzimer, A., d'Alche-Buc, F., Fox, E., Garnett, R.  
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2019
- **Predicting pregnancy using large-scale data from a women's health tracking mobile application**  
Liu, B., Shi, S., Wu, Y., Thomas, D., Symul, L., Pierson, E., Leskovec, J., Assoc Comp Machinery  
ASSOC COMPUTING MACHINERY.2019: 2999–3005
- **Goal-setting And Achievement In Activity Tracking Apps: A Case Study Of MyFitnessPal**  
Gordon, M. L., Althoff, T., Leskovec, J., Assoc Comp Machinery

---

ASSOC COMPUTING MACHINERY.2019: 571–82

- **Hierarchical Temporal Convolutional Networks for Dynamic Recommender Systems**  
You, J., Wang, Y., Pal, A., Eksombatchai, P., Rosenberg, C., Leskovec, J., Assoc Comp Machinery  
ASSOC COMPUTING MACHINERY.2019: 2236–46
- **Knowledge-aware Graph Neural Networks with Label Smoothness Regularization for Recommender Systems**  
Wang, H., Zhang, F., Zhang, M., Leskovec, J., Zhao, M., Li, W., Wang, Z., Assoc Comp Machinery  
ASSOC COMPUTING MACHINERY.2019: 968–77
- **GNNExplainer: Generating Explanations for Graph Neural Networks**  
Ying, R., Bourgeois, D., You, J., Zitnik, M., Leskovec, J.  
edited by Wallach, H., Larochelle, H., Beygelzimer, A., d'Alche-Buc, F., Fox, E., Garnett, R.  
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2019
- **G2SAT: Learning to Generate SAT Formulas**  
You, J., Wu, H., Barrett, C., Ramanujan, R., Leskovec, J.  
edited by Wallach, H., Larochelle, H., Beygelzimer, A., d'Alche-Buc, F., Fox, E., Garnett, R.  
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2019
- **Complete the Look: Scene-based Complementary Product Recommendation**  
Kang, W., Kim, E., Leskovec, J., Rosenberg, C., McAuley, J., IEEE Comp Soc  
IEEE.2019: 10524–33
- **Network enhancement as a general method to denoise weighted biological networks.** *Nature communications*  
Wang, B., Pourshafeie, A., Zitnik, M., Zhu, J., Bustamante, C. D., Batzoglou, S., Leskovec, J.  
2018; 9 (1): 3108
- **Modeling polypharmacy side effects with graph convolutional networks.** *Bioinformatics (Oxford, England)*  
Zitnik, M., Agrawal, M., Leskovec, J.  
2018; 34 (13): i457–i466
- **Prioritizing network communities.** *Nature communications*  
Zitnik, M., Sosis, R., Leskovec, J.  
2018; 9 (1): 2544
- **Higher-order clustering in networks** *PHYSICAL REVIEW E*  
Yin, H., Benson, A. R., Leskovec, J.  
2018; 97 (5)
- **Higher-order clustering in networks.** *Physical review. E*  
Yin, H., Benson, A. R., Leskovec, J.  
2018; 97 (5-1): 052306
- **Modeling Individual Cyclic Variation in Human Behavior.** *Proceedings of the ... International World-Wide Web Conference. International WWW Conference*  
Pierson, E., Althoff, T., Leskovec, J.  
2018; 2018: 107–16
- **Modeling Interdependent and Periodic Real-World Action Sequences.** *Proceedings of the ... International World-Wide Web Conference. International WWW Conference*  
Kurashima, T., Althoff, T., Leskovec, J.  
2018; 2018: 803–12
- **I'll Be Back: On the Multiple Lives of Users of a Mobile Activity Tracking Application.** *Proceedings of the ... International World-Wide Web Conference. International WWW Conference*  
Lin, Z., Althoff, T., Leskovec, J.  
2018; 2018: 1501–11
- **HUMAN DECISIONS AND MACHINE PREDICTIONS** *QUARTERLY JOURNAL OF ECONOMICS*  
Kleinberg, J., Lakkaraju, H., Leskovec, J., Ludwig, J., Mullainathan, S.

2018; 133 (1): 237–93

- **Accurate Influenza Monitoring and Forecasting Using Novel Internet Data Streams: A Case Study in the Boston Metropolis.** *JMIR public health and surveillance*  
Lu, F. S., Hou, S., Baltrusaitis, K., Shah, M., Leskovec, J., Susic, R., Hawkins, J., Brownstein, J., Conidi, G., Gunn, J., Gray, J., Zink, A., Santillana, et al  
2018; 4 (1): e4
- **Large-scale analysis of disease pathways in the human interactome.** *Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing*  
Agrawal, M., Zitnik, M., Leskovec, J.  
2018; 23: 111–22
- **Community Interaction and Conflict on the Web**  
Kumar, S., Hamilton, W. L., Leskovec, J., Jurafsky, D., *Assoc Comp Machinery*  
ASSOC COMPUTING MACHINERY.2018: 933–43
- **Embedding Logical Queries on Knowledge Graphs**  
Hamilton, W. L., Bajaj, P., Zitnik, M., Jurafsky, D., Leskovec, J.  
edited by Bengio, S., Wallach, H., Larochelle, H., Grauman, K., CesaBianchi, N., Garnett, R.  
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2018
- **MIS2: Misinformation and Misbehavior Mining on the Web**  
Kumar, S., Jiang, M., Jung, T., Luo, R., Leskovec, J., *ACM*  
ASSOC COMPUTING MACHINERY.2018: 799–800
- **Data-Driven Model Predictive Control of Autonomous Mobility-on-Demand Systems**  
Iglesias, R., Rossi, F., Wang, K., Hallac, D., Leskovec, J., Pavone, M., *IEEE*  
IEEE COMPUTER SOC.2018: 6019–25
- **Drive2Vec: Multiscale State-Space Embedding of Vehicular Sensor Data**  
Hallac, D., Bhooshan, S., Chen, M., Abida, K., Susic, R., Leskovec, J., *IEEE*  
IEEE.2018: 3233–38
- **Learning Structural Node Embeddings via Diffusion Wavelets**  
Donnat, C., Zitnik, M., Hallac, D., Leskovec, J., *ACM*  
ASSOC COMPUTING MACHINERY.2018: 1320–29
- **Graph Convolutional Neural Networks for Web-Scale Recommender Systems**  
Ying, R., He, R., Chen, K., Eksombatchai, P., Hamilton, W. L., Leskovec, J., *ACM*  
ASSOC COMPUTING MACHINERY.2018: 974–83
- **Hierarchical Graph Representation Learning with Differentiable Pooling**  
Ying, R., You, J., Morris, C., Ren, X., Hamilton, W. L., Leskovec, J.  
edited by Bengio, S., Wallach, H., Larochelle, H., Grauman, K., CesaBianchi, N., Garnett, R.  
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2018
- **Graph Convolutional Policy Network for Goal-Directed Molecular Graph Generation**  
You, J., Liu, B., Ying, R., Pande, V., Leskovec, J.  
edited by Bengio, S., Wallach, H., Larochelle, H., Grauman, K., CesaBianchi, N., Garnett, R.  
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2018
- **Dynamic Network Model from Partial Observations**  
Ghalebi, E., Mirzsoleiman, B., Grosu, R., Leskovec, J.  
edited by Bengio, S., Wallach, H., Larochelle, H., Grauman, K., CesaBianchi, N., Garnett, R.  
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2018
- **Large-scale analysis of disease pathways in the human interactome**  
Agrawal, M., Zitnik, M., Leskovec, J.  
edited by Altman, R. B., Dunker, A. K., Hunter, L., Ritchie, M. D., Murray, T., Klein, T. E.  
WORLD SCIENTIFIC PUBL CO PTE LTD.2018: 111–22

- **The Selective Labels Problem: Evaluating Algorithmic Predictions in the Presence of Unobservables.** *KDD : proceedings. International Conference on Knowledge Discovery & Data Mining*  
Lakkaraju, H., Kleinberg, J., Leskovec, J., Ludwig, J., Mullainathan, S.  
2017; 2017: 275–84
- **Toeplitz Inverse Covariance-Based Clustering of Multivariate Time Series Data.** *KDD : proceedings. International Conference on Knowledge Discovery & Data Mining*  
Hallac, D., Vare, S., Boyd, S., Leskovec, J.  
2017; 2017: 215–23
- **Network Inference via the Time-Varying Graphical Lasso.** *KDD : proceedings. International Conference on Knowledge Discovery & Data Mining*  
Hallac, D., Park, Y., Boyd, S., Leskovec, J.  
2017; 2017: 205–13
- **Local Higher-Order Graph Clustering.** *KDD : proceedings. International Conference on Knowledge Discovery & Data Mining*  
Yin, H., Benson, A. R., Leskovec, J., Gleich, D. F.  
2017; 2017: 555–64
- **Large-scale physical activity data reveal worldwide activity inequality** *NATURE*  
Althoff, T., Susic, R., Hicks, J. L., King, A. C., Delp, S. L., Leskovec, J.  
2017; 547 (7663): 336–+
- **Predicting multicellular function through multi-layer tissue networks** *BIOINFORMATICS*  
Zitnik, M., Leskovec, J.  
2017; 33 (14): I190–I198
- **Network analysis: a novel method for mapping neonatal acute transport patterns in California.** *Journal of perinatology*  
Kunz, S. N., Zupancic, J. A., Rigdon, J., Phibbs, C. S., Lee, H. C., Gould, J. B., Leskovec, J., Profit, J.  
2017; 37 (6): 702-708
- **Loyalty in Online Communities.** *Proceedings of the ... International AAAI Conference on Weblogs and Social Media. International AAAI Conference on Weblogs and Social Media*  
Hamilton, W. L., Zhang, J., Danescu-Niculescu-Mizil, C., Jurafsky, D., Leskovec, J.  
2017; 2017: 540–43
- **Community Identity and User Engagement in a Multi-Community Landscape.** *Proceedings of the ... International AAAI Conference on Weblogs and Social Media. International AAAI Conference on Weblogs and Social Media*  
Zhang, J., Hamilton, W. L., Danescu-Niculescu-Mizil, C., Jurafsky, D., Leskovec, J.  
2017; 2017: 377–86
- **Anyone Can Become a Troll** *AMERICAN SCIENTIST*  
Cheng, J., Danescu-Niculescu-Mizil, C., Leskovec, J., Bernstein, M.  
2017; 105 (3): 152–55
- **How Gamification Affects Physical Activity: Large-scale Analysis of Walking Challenges in a Mobile Application.** *Proceedings of the ... International World-Wide Web Conference. International WWW Conference*  
Shameli, A., Althoff, T., Saberi, A., Leskovec, J.  
2017; 2017: 455–63
- **Online Actions with Offline Impact: How Online Social Networks Influence Online and Offline User Behavior.** *Proceedings of the ... International Conference on Web Search & Data Mining. International Conference on Web Search & Data Mining*  
Althoff, T., Jindal, P., Leskovec, J.  
2017; 2017: 537-546
- **SnapVX: A Network-Based Convex Optimization Solver** *JOURNAL OF MACHINE LEARNING RESEARCH*  
Hallac, D., Wong, C., Diamond, S., Sharang, A., Susic, R., Boyd, S., Leskovec, J.  
2017; 18
- **SnapVX: A Network-Based Convex Optimization Solver.** *Journal of machine learning research : JMLR*  
Hallac, D., Wong, C., Diamond, S., Sharang, A., Susic, R., Boyd, S., Leskovec, J.

2017; 18 (1): 110–14

- **Large-scale Graph Representation Learning**

Leskovec, J.

edited by Nie, J. Y., Obradovic, Z., Suzumura, T., Ghosh, R., Nambiar, R., Wang, C., Zang, H., BaezaYates, R., Hu, Kepner, J., Cuzzocrea, A., Tang, J., Toyoda, M.

IEEE.2017: 4

- **Anyone Can Become a Troll: Causes of Trolling Behavior in Online Discussions**

Cheng, J., Bernstein, M., Danescu-Niculescu-Mizil, C., Leskovec, J., Assoc Comp Machinery

ASSOC COMPUTING MACHINERY.2017: 1217–30

- **Motifs in Temporal Networks**

Paranjape, A., Benson, A. R., Leskovec, J., ACM

ASSOC COMPUTING MACHINERY.2017: 601–10

- **Modeling Affinity based Popularity Dynamics**

Kim, M., McFarland, D. A., Leskovec, J., Assoc Comp Machinery

ASSOC COMPUTING MACHINERY.2017: 477–86

- **SnapVX: A Network-Based Convex Optimization Solver.** *Journal of machine learning research : JMLR*

Hallac, D., Wong, C., Diamond, S., Sharang, A., Sasic, R., Boyd, S., Leskovec, J.

2017; 18 (1): 110–14

- **Large-scale Graph Representation Learning**

Leskovec, J.

edited by Nie, J. Y., Obradovic, Z., Suzumura, T., Ghosh, R., Nambiar, R., Wang, C., Zang, H., BaezaYates, R., Hu, Kepner, J., Cuzzocrea, A., Tang, J., Toyoda, M.

IEEE.2017: 4

- **Mining Big Data to Extract Patterns and Predict Real-Life Outcomes** *PSYCHOLOGICAL METHODS*

Kosinski, M., Wang, Y., Lakkaraju, H., Leskovec, J.

2016; 21 (4): 493-506

- **Cultural Shift or Linguistic Drift? Comparing Two Computational Measures of Semantic Change.** *Proceedings of the Conference on Empirical Methods in Natural Language Processing. Conference on Empirical Methods in Natural Language Processing*

Hamilton, W. L., Leskovec, J., Jurafsky, D.

2016; 2016: 2116-2121

- **Inducing Domain-Specific Sentiment Lexicons from Unlabeled Corpora.** *Proceedings of the Conference on Empirical Methods in Natural Language Processing. Conference on Empirical Methods in Natural Language Processing*

Hamilton, W. L., Clark, K., Leskovec, J., Jurafsky, D.

2016; 2016: 595–605

- **SNAP: A General-Purpose Network Analysis and Graph-Mining Library** *ACM TRANSACTIONS ON INTELLIGENT SYSTEMS AND TECHNOLOGY*

Leskovec, J., Sasic, R.

2016; 8 (1)

- **SNAP: A General Purpose Network Analysis and Graph Mining Library.** *ACM transactions on intelligent systems and technology*

Leskovec, J., Sosič, R.

2016; 8 (1)

- **node2vec: Scalable Feature Learning for Networks.** *KDD : proceedings. International Conference on Knowledge Discovery & Data Mining*

Grover, A., Leskovec, J.

2016; 2016: 855-864

- **Interpretable Decision Sets: A Joint Framework for Description and Prediction.** *KDD : proceedings. International Conference on Knowledge Discovery & Data Mining*

Lakkaraju, H., Bach, S. H., Jure, L.

2016; 2016: 1675-1684

- **Higher-order organization of complex networks** *SCIENCE*  
Benson, A. R., Gleich, D. F., Leskovec, J.  
2016; 353 (6295): 163-166
- **Growing Wikipedia Across Languages via Recommendation.** *Proceedings of the ... International World-Wide Web Conference. International WWW Conference*  
Wulczyn, E., West, R., Zia, L., Leskovec, J.  
2016; 2016: 975-985
- **Large-scale Analysis of Counseling Conversations: An Application of Natural Language Processing to Mental Health.** *Transactions of the Association for Computational Linguistics*  
Althoff, T., Clark, K., Leskovec, J.  
2016; 4: 463-476
- **Improving Website Hyperlink Structure Using Server Logs**  
Paranjape, A., West, R., Zia, L., Leskovec, J., ACM  
ASSOC COMPUTING MACHINERY.2016: 615-24
- **Driver Identification Using Automobile Sensor Data from a Single Turn**  
Hallac, D., Sharang, A., Stahmann, R., Lamprecht, A., Hubert, M., Roehder, M., Sasic, R., Leskovec, J., IEEE  
IEEE.2016: 953-58
- **Seeing the Forest for the Trees: New Approaches to Forecasting Cascades**  
Krishnan, S., Butler, P., Tandon, R., Leskovec, J., Ramakrishnan, N., ACM  
ASSOC COMPUTING MACHINERY.2016: 249-58
- **Confusions over Time: An Interpretable Bayesian Model to Characterize Trends in Decision Making**  
Lakkaraju, H., Leskovec, J.  
edited by Lee, D. D., Sugiyama, M., Luxburg, U. V., Guyon, Garnett, R.  
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2016
- **Information Cartography** *COMMUNICATIONS OF THE ACM*  
Shahaf, D., Guestrin, C., Horvitz, E., Leskovec, J.  
2015; 58 (11): 62-73
- **The mobilize center: an NIH big data to knowledge center to advance human movement research and improve mobility.** *Journal of the American Medical Informatics Association*  
Ku, J. P., Hicks, J. L., Hastie, T., Leskovec, J., Ré, C., Delp, S. L.  
2015; 22 (6): 1120-1125
- **Network Lasso: Clustering and Optimization in Large Graphs.** *KDD : proceedings. International Conference on Knowledge Discovery & Data Mining*  
Hallac, D., Leskovec, J., Boyd, S.  
2015; 2015: 387-396
- **Donor Retention in Online Crowdfunding Communities: A Case Study of DonorsChoose.org.** *Proceedings of the ... International World-Wide Web Conference. International WWW Conference*  
Althoff, T., Leskovec, J.  
2015; 2015: 34-44
- **Ringo: Interactive Graph Analytics on Big-Memory Machines.** *Proceedings. ACM-Sigmod International Conference on Management of Data*  
Perez, Y., Sasic, R., Banerjee, A., Puttagunta, R., Raison, M., Shah, P., Leskovec, J.  
2015; 2015: 1105-1110
- **Defining and evaluating network communities based on ground-truth** *KNOWLEDGE AND INFORMATION SYSTEMS*  
Yang, J., Leskovec, J.  
2015; 42 (1): 181-213
- **Mining Online Networks and Communities**  
Leskovec, J.

---

edited by Appice, A., Rodrigues, P. P., Costa, V. S., Soares, C., Gama, J., Jorge, A.  
 SPRINGER-VERLAG BERLIN.2015

- **Large Scale Network Analytics with SNAP Tutorial at the World Wide Web 2015 Conference**  
 Sasic, R., Leskovec, J., ACM  
 ASSOC COMPUTING MACHINERY.2015: 1537–38
- **Tensor Spectral Clustering for Partitioning Higher-order Network Structures.** *Proceedings of the ... SIAM International Conference on Data Mining. SIAM International Conference on Data Mining*  
 Benson, A. R., Gleich, D. F., Leskovec, J.  
 2015; 2015: 118-126
- **Mining Missing Hyperlinks from Human Navigation Traces: A Case Study of Wikipedia.** *Proceedings of the ... International World-Wide Web Conference. International WWW Conference*  
 West, R., Paranjape, A., Leskovec, J.  
 2015; 2015: 1242-1252
- **Analyzing Information Seeking and Drug-Safety Alert Response by Health Care Professionals as New Methods for Surveillance.** *Journal of medical Internet research*  
 Callahan, A., Pernek, I., Stiglic, G., Leskovec, J., Strasberg, H. R., Shah, N. H.  
 2015; 17 (8)
- **Overlapping Communities Explain Core-Periphery Organization of Networks** *PROCEEDINGS OF THE IEEE*  
 Yang, J., Leskovec, J.  
 2014; 102 (12): 1892-1902
- **Geospatial Structure of a Planetary-Scale Social Network** *IEEE TRANSACTIONS ON COMPUTATIONAL SOCIAL SYSTEMS*  
 Leskovec, J., Horvitz, E.  
 2014; 1 (3): 156–63
- **Structure and Overlaps of Ground-Truth Communities in Networks** *ACM TRANSACTIONS ON INTELLIGENT SYSTEMS AND TECHNOLOGY*  
 Yang, J., Leskovec, J.  
 2014; 5 (2)
- **Uncovering the structure and temporal dynamics of information propagation** *NETWORK SCIENCE*  
 Rodriguez, M., Leskovec, J., Balduzzi, D., Schoelkopf, B.  
 2014; 2 (1): 26–65
- **Discovering Social Circles in Ego Networks** *ACM TRANSACTIONS ON KNOWLEDGE DISCOVERY FROM DATA*  
 McAuley, J., Leskovec, J.  
 2014; 8 (1): 73-100
- **Status and Friendship: Mechanisms of Social Network Evolution**  
 Brandt, C., Leskovec, J., Assoc Comp Machinery  
 ASSOC COMPUTING MACHINERY.2014: 229–30
- **Finding Progression Stages in Time-evolving Event Sequences**  
 Yang, J., McAuley, J., Leskovec, J., LePendou, P., Shah, N., Assoc Comp Machinery  
 ASSOC COMPUTING MACHINERY.2014: 783–93
- **Can Cascades be Predicted?**  
 Cheng, J., Adamic, L. A., Dow, P., Kleinberg, J., Leskovec, J., Assoc Comp Machinery  
 ASSOC COMPUTING MACHINERY.2014: 925–35
- **The Bursty Dynamics of the Twitter Information Network**  
 Myers, S., Leskovec, J., Assoc Comp Machinery  
 ASSOC COMPUTING MACHINERY.2014: 913–23
- **Engaging with Massive Online Courses**  
 Anderson, A., Huttenlocher, D., Kleinberg, J., Leskovec, J., Assoc Comp Machinery  
 ASSOC COMPUTING MACHINERY.2014: 687–97

- **Modeling Information Propagation with Survival Theory**  
Gomez-Rodriguez, M., Leskovec, J., Schoelkopf, B.  
2013
- **Hidden Factors and Hidden Topics: Understanding Rating Dimensions with Review Text**  
McAuley, J., Leskovec, J.  
2013
- **NIFTY: A System for Large Scale Information Flow Tracking and Clustering**  
Suen, C., Huang, S., Eksombatchai, C., Soscic, R., Leskovec, J.  
2013
- **Steering User Behavior With Badges**  
Anderson, A., Huttenlocher, D., Kleinberg, J., Leskovec, J.  
2013
- **Overlapping Community Detection at Scale: A Nonnegative Matrix Factorization Approach**  
Yang, J., Leskovec, J.  
2013
- **Information Cartography: Creating Zoomable, Large-Scale Maps of Information**  
Shahaf, D., Yang, J., Suen, C., Jacobs, J., Wang, H., Leskovec, J.  
2013
- **Community Detection in Networks with Node Attributes**  
Yang, J., McAuley, J., Leskovec, J.  
2013
- **A computational approach to politeness with application to social factors**  
Danescu-Niculescu-Mizil, C., Sudhof, M., Jurafsky, D., Leskovec, J., Potts, C.  
2013
- **No Country for Old Members: User lifecycle and linguistic change in online communities**  
Danescu-Niculescu-Mizil, C., West, R., Jurafsky, D., Leskovec, J., Potts, C.  
2013
- **What's in a name? Understanding the Interplay between Titles, Content, and Communities in Social Media**  
Lakkaraju, H., McAuley, J., Leskovec, J.  
2013
- **Community Detection in Networks with Node Attributes**  
Yang, J., McAuley, J., Leskovec, J.  
2013
- **A computational approach to politeness with application to social factors**  
Danescu-Niculescu-Mizil, C., Sudhof, M., Jurafsky, D., Leskovec, J., Potts, C.  
2013
- **No Country for Old Members: User lifecycle and linguistic change in online communities**  
Danescu-Niculescu-Mizil, C., West, R., Jurafsky, D., Leskovec, J., Potts, C.  
2013
- **What's in a name? Understanding the Interplay between Titles, Content, and Communities in Social Media**  
Lakkaraju, H., McAuley, J., Leskovec, J.  
2013
- **Measurement error in network data: A re-classification** *SOCIAL NETWORKS*  
Wang, D. J., Shi, X., McFarland, D. A., Leskovec, J.  
2012; 34 (4): 396-409

- **Inferring Networks of Diffusion and Influence** *ACM TRANSACTIONS ON KNOWLEDGE DISCOVERY FROM DATA*  
Gomez-Rodriguez, M., Leskovec, J., Krause, A.  
2012; 5 (4)
- **Community-Affiliation Graph Model for Overlapping Network Community Detection** *12th IEEE International Conference on Data Mining (ICDM)*  
Yang, J., Leskovec, J.  
IEEE.2012: 1170–1175
- **Multiplicative Attribute Graph Model of Real- World Networks** *INTERNET MATHEMATICS*  
Kim, M., Leskovec, J.  
2012; 8 (1-2): 113–60
- **Image Labeling on a Network: Using Social-Network Metadata for Image Classification** *12th European Conference on Computer Vision (ECCV)*  
McAuley, J., Leskovec, J.  
SPRINGER-VERLAG BERLIN.2012: 828–841
- **Learning to Discover Social Circles in Ego Networks**  
McAuley, J., Leskovec, J.  
2012
- **Latent Multi-group Membership Graph Model**  
Kim, M., Leskovec, J.  
2012
- **Information Diffusion and External Influence in Networks**  
Myers, S., Zhu, C., Leskovec, J.  
2012
- **Learning Attitudes and Attributes from Multi-Aspect Reviews**  
McAuley, J., Leskovec, J., Jurafsky, D.  
2012
- **Automatic versus Human Navigation in Information Networks**  
West, R., Leskovec, J.  
2012
- **Discovering Value from Community Activity on Focused Question Answering Sites: A Case Study of Stack Overflow**  
Anderson, A., Huttenlocher, D., Kleinberg, J., Leskovec, J.  
2012
- **The Life and Death of Online Groups: Predicting Group Growth and Longevity**  
Kairam, S., Wang, D., Leskovec, J.  
2012
- **Human Wayfinding in Information Networks**  
West, R., Leskovec, J.  
2012
- **Effects of User Similarity in Social Media**  
Anderson, A., Huttenlocher, D., Kleinberg, J., Leskovec, J.  
2012
- **Image Labeling on a Network: Using Social-Network Metadata for Image Classification**  
McAuley, J., Leskovec, J.  
2012
- **Defining and Evaluating Network Communities based on Ground-truth** *12th IEEE International Conference on Data Mining (ICDM)*  
Yang, J., Leskovec, J.

---

IEEE.2012: 745–754

- **Clash of the Contagions: Cooperation and Competition in Information Diffusion** *12th IEEE International Conference on Data Mining (ICDM)*  
Myers, S. A., Leskovec, J.  
IEEE.2012: 539–548
- **HADI: Mining Radii of Large Graphs** *ACM TRANSACTIONS ON KNOWLEDGE DISCOVERY FROM DATA*  
Kang, U., Tsourakakis, C. E., Appel, A. P., Faloutsos, C., Leskovec, J.  
2011; 5 (2)
- **Large-Scale Web Data Analysis** *IEEE INTELLIGENT SYSTEMS*  
Leskovec, J.  
2011; 26 (1): 11-11
- **Kronecker Graphs** *GRAPH ALGORITHMS IN THE LANGUAGE OF LINEAR ALGEBRA*  
Leskovec, J.  
edited by Kepner, J., Gilbert, J.  
2011; 22: 137–204
- **Sentiment Flow Through Hyperlink Networks**  
Miller, M., Sathi, C., Wiesenthal, D., Leskovec, J., Potts, C.  
2011
- **Modeling Social Networks with Node Attributes using the Multiplicative Attribute Graph Model**  
Kim, M., Leskovec, J.  
2011
- **Dynamics of Bidding in a P2P Lending Service: Effects of Herding and Predicting Loan Success**  
Ceyhan, S., Shi, X., Leskovec, J.  
2011
- **The Network Completion Problem: Inferring Missing Nodes and Edges in Networks**  
Kim, M., Leskovec, J.  
2011
- **Patterns of Temporal Variation in Online Media**  
Yang, J., Leskovec, J.  
2011
- **The Role of Social Networks in Online Shopping: Information Passing, Price of Trust, and Consumer Choice**  
Guo, S., Wang, M., Leskovec, J.  
2011
- **Supervised Random Walks: Predicting and Recommending Links in Social Networks**  
Backstrom, L., Leskovec, J.  
2011
- **Friendship and Mobility: User Movement In Location-Based Social Networks**  
Cho, E., Myers, S. A., Leskovec, J.  
2011
- **Correcting for Missing Data in Information Cascades**  
Sadikov, E., Medina, M., Leskovec, J., Garcia-Molina, H.  
2011
- **Kronecker Graphs: An Approach to Modeling Networks** *JOURNAL OF MACHINE LEARNING RESEARCH*  
Leskovec, J., Chakrabarti, D., Kleinberg, J., Faloutsos, C., Ghahramani, Z.  
2010; 11: 985-1042
- **Multiplicative Attribute Graph Model of Real-World Networks** *7th Workshop on Algorithms and Models for the Web Graph*  
Kim, M., Leskovec, J.

---

SPRINGER-VERLAG BERLIN.2010: 62–73

- **Predicting Positive and Negative Links in Online Social Networks**  
Leskovec, J., Huttenlocher, D., Kleinberg, J.  
2010
- **Citing for High Impact**  
Shi, X., Leskovec, J., McFarland, D., A.  
2010
- **Modeling Information Diffusion in Implicit Networks**  
Yang, J., Leskovec, J.  
2010
- **Empirical Comparison of Algorithms for Network Community Detection**  
Leskovec, J., Lang, K., Mahoney, M.  
2010
- **On the Convexity of Latent Social Network Inference**  
Myers, S., A., Leskovec, J.  
2010
- **Radius Plots for Mining Tera-byte Scale Graphs: Algorithms, Patterns, and Observations**  
Kang, U., Tsourakakis, C., Appel, A., Faloutsos, C., Leskovec, J.  
2010
- **Governance in Social Media: A case study of the Wikipedia promotion process**  
Leskovec, J., Huttenlocher, D., Kleinberg, J.  
2010
- **Signed Networks in Social Media** *28th Annual CHI Conference on Human Factors in Computing Systems*  
Leskovec, J., Huttenlocher, D., Kleinberg, J.  
ASSOC COMPUTING MACHINERY.2010: 1361–1370
- **Meme-tracking and the Dynamics of the News Cycle** *15th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*  
Leskovec, J., Backstrom, L., Kleinberg, J.  
ASSOC COMPUTING MACHINERY.2009: 497–505
- **Community Structure in Large Networks: Natural Cluster Sizes and the Absence of Large Well-Defined Clusters** *INTERNET MATHEMATICS*  
Leskovec, J., Lang, K. J., Dasgupta, A., Mahoney, M. W.  
2009; 6 (1): 29–123
- **Community Structure in Large Networks: Natural Cluster Sizes and the Absence of Large Well-Defined Clusters** *Internet Mathematics*  
Leskovec, J., Lang, K., Dasgupta, A., Mahoney, M.  
2009; 1 (6): 29--123
- **Modeling blog dynamics**  
Goetz, M., Leskovec, J., Mcglohon, M., Faloutsos, C.  
2009
- **The Battle of the Water Sensor Networks (BWSN): A Design Challenge for Engineers and Algorithms**  
Leskovec, J., Ostfeld et al, A.  
2009
- **Efficient Sensor Placement Optimization for Securing Large Water Distribution Networks** *JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT-ASCE*  
Krause, A., Leskovec, J., Guestrin, C., VanBriesen, J., Faloutsos, C.  
2008; 134 (6): 516-526
- **Mobile Call Graphs: Beyond Power-Law and Lognormal Distributions**  
Seshadri, M., Machiraju, S., Sridharan, A., Bolot, J., Faloutsos, C., Leskovec, J.

2008

- **Planetary-Scale Views on a Large Instant-Messaging Network**

Leskovec, J., Horvitz, E.

2008

- **Epidemic Thresholds in Real Networks**

Chakrabarti, D., Wang, Y., Wang, C., Leskovec, J., Faloutsos, C.

2008

- **Statistical Properties of Community Structure in Large Social and Information Networks**

Leskovec, J., Lang, K., Dasgupta, A., Mahoney, M.

2008

- **Microscopic Evolution of Social Networks**

Leskovec, J., Backstrom, L., Kumar, R., Tomkins, A.

2008

- **Monitoring Network Evolution using MDL**

Ferlez, J., Faloutsos, C., Leskovec, J., Mladenic, D., Grobelnik, M.

2008

- **Cost-effective Outbreak Detection in Networks**

Leskovec, J., Krause, A., Guestrin, C., Faloutsos, C., VanBriesen, J., Glance, N.

2007

- **Web Projections: Learning from Contextual Subgraphs of the Web**

Leskovec, J., Dumais, S., Horvitz, E.

2007

- **Scalable Modeling of Real Graphs using Kronecker Multiplication**

Leskovec, J., Faloutsos, C.

2007

- **The Dynamics of Viral Marketing *ACM Transactions on the Web (TWEB)***

Leskovec, J., Adamic, L., Huberman, B.

2007; 1 (1)

- **Graph Evolution: Densification and Shrinking Diameters**

Leskovec, J., Kleinberg, J., Faloutsos, C.

2007

- **Cascading Behavior in Large Blog Graphs**

Leskovec, J., McGlohon, M., Faloutsos, C., Glance, N., Hurst, M.

2007

- **Information Survival Threshold in Sensor and P2P Networks**

Chakrabarti, D., Leskovec, J., Faloutsos, C., Madden, S., Guestrin, C., Faloutsos, M.

2007

- **Sampling from Large Graphs**

Leskovec, J., Faloutsos, C.

2006

- **Data Association for Topic Intensity Tracking**

Krause, A., Leskovec, J., Guestrin, C.

2006

- **The Dynamics of Viral Marketing**

Leskovec, J., Adamic, L., Huberman, B.

2006

- **Patterns of Influence in a Recommendation Network**

Leskovec, J., Singh, A., Kleinberg, J.

2006

- **Realistic, mathematically tractable graph generation and evolution, using Kronecker multiplication** *16th European Conference on Machine Learning (ECML)/9th European Conference on Principles and Practice of Knowledge Discovery in Databases (PKDD)*

Leskovec, J., Chakrabarti, D., Kleinberg, J., Faloutsos, C.

SPRINGER-VERLAG BERLIN.2005: 133–145

- **Semantic Text Features from Small World Graphs**

Leskovec, J., Shawe-Taylor, J.

2005

- **Impact of Linguistic Analysis on the Semantic Graph Coverage and Learning of Document Extracts**

Leskovec, J., Milic-Frayling, N., Grobelnik, M.

2005

- **Graphs over Time: Densification Laws, Shrinking Diameters and Possible Explanations**

Leskovec, J., Kleinberg, J., Faloutsos, C.

2005

- **Extracting Summary Sentences Based on the Document Semantic Graph** *Microsoft Research Technical Report MSR-TR-2005-07*

Leskovec, J., Milic-Frayling, N., Grobelnik, M.

2005

- **Learning Sub-structures of Document Semantic Graphs for Document Summarization**

Leskovec, J., Grobelnik, M., Milic-Frayling, N.

2004

- **The Download Estimation task on KDD Cup 2003** *SIGKDD Explorations*

Brank, J., Leskovec, J.

2003

- **Linear Programming boost for Uneven Datasets**

Leskovec, J., Shawe-Taylor, J.

2003

- **KDD Cup 2003: The Download Estimation task** *Jozef Stefan Institute Technical Report*

Brank, J., Leskovec, J.

2003

- **Govorec - sistem za slovensko govorjenje racunalniskih besedil** *Information Society*

Leskovec, J.

2001

- **Detection of Human Bodies using Computer Analysis of a Sequence of Stereo Images**

Leskovec, J.

1999