Tina Eliassi-Rad

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Research Interests

- Data Mining & Machine Learning
- Network Science
- Complex Systems
- Ethics of Artificial Intelligence

Education

B.S. (with Distinction), Computer Sciences, University of Wisconsin-Madison, 1993

M.S., Computer Science, University of Illinois at Urbana-Champaign, 1995

Ph.D., Computer Sciences (Minor: Mathematical Statistics), University of Wisconsin-Madison, 2001

Employment (post Ph.D.)

7/2023–present	President Joseph E. Aoun Professor, Northeastern University, Boston, MA
7/2020–present	Professor, Khoury College of Computer Sciences, Northeastern University, Boston, MA
1/2016–6/2020	Associate Professor (Tenured), Khoury College of Computer Sciences, Northeastern University, Boston, MA
7/2012–5/2016	Associate Professor (Tenured), Department of Computer Science, Rutgers University, Piscataway, NJ
9/2010–6/2012	Assistant Professor (Tenure-Track), Department of Computer Science, Rutgers University, Piscataway, NJ
9/2001–9/2010	Member of Technical Staff & Principal Investigator, Center for Applied Scientific Computing, Lawrence Livermore National Laboratory (LLNL), Livermore, CA

Core & External Faculty Positions

8/2021–present	External Faculty, Santa Fe Institute, Santa Fe, NM
7/2021–present	Core Faculty, Institute for Experiential AI, Northeastern University, Boston, MA
1/2021–present	External Faculty, Vermont Complex Systems Center, Burlington, VT
1/2016–present	Core Faculty, Network Science Institute, Northeastern University, Boston, MA

Affiliated & Visiting Faculty Positions

8/2022–12/2022	Simons Institute for the Theory of Computing, University of California, Berkeley, CA
2021–present	Cybersecurity and Privacy Institute, Northeastern University, Boston, MA
2018–present	Global Resilience Institute, Northeastern University, Boston, MA
2017–present	NULab for Texts, Maps and Networks, Northeastern University, Boston, MA
2011–2016	Center for Dynamic Data Analytics (CDDA), Rutgers University and SUNY Stony Brook

2010–2016	Center for Computational Biomedicine, Imaging and Modeling (CBIM), Rutgers University, Piscataway, NJ
2010–2016	Center for Discrete Mathematics and Theoretical Computer Science (DIMACS), Rutgers University, Piscataway, NJ
2010–2016	Rutgers Center for Cognitive Science (RuCCS), Rutgers University, Piscataway, NJ

Awards & Honors

- Fellow, Network Science Society, 2023
- Recipient, Lagrange Prize (CRT Foundation), 2023
- University Excellence in Research and Creative Activity Award, Northeastern University, Boston, MA, 2022
- One of the 100 Brilliant Women in AI Ethics™ for 2021 (https://100brilliantwomeninaiethics.com)
- Fellow, ISI Foundation, Turin, Italy, 2019-2022
- Best Paper Award, The 15th International Workshop on Mining and Learning with Graphs (MLG'19), Anchorage, AL, August 2019
- Among the Best in Conference (selected for fast-track journal publication), The 16th IEEE International Conference on Data Mining (ICDM'16), Barcelona, Spain, December 2016
- Best Interdisciplinary Paper Award, The 21st ACM Conference on Information and Knowledge Management (CIKM'12), Maui, HI, October 2012
- Antivirus Research Gift Winner (Third Place Prize), sponsored by pcantivirusreviews.com, 2011
- Global Security Directorate Gold Award (for work on detection of cyber attacks), Lawrence Livermore National Laboratory, Livermore, CA, 2010
- Outstanding Mentor Award, Office of Science, U.S. Department of Energy, 2010
- Best Paper Award Runner-up, The 9th IEEE International Conference on Data Mining (ICDM'09), Miami, FL, December 2009
- Top 3% of Accepted Papers, The 2008 Conference on Principles and Practice of Knowledge Discovery in Databases (PKDD'08), Antwerp, Belgium, September 2008
- Research Award for First Year Graduate Students, University of Wisconsin-Madison, Summer 1996

Grants and Gifts (over $41.5M as of 9/2023)

Current Grants

- Co-PI, "URofL:EN: Does Re-wilding Lead to Re-wiring of Gene Expression and Species Interaction Networks?", National Science Foundation (Award # 2133740), $2,999,999 (Northeastern portion = $875,000), 2022-2026
- Co-PI, "AutoCoMBOT: Autonomy in Cyberspace through robot learning and Man-BOt Teaming", Multidisciplinary University Research Initiative, $1,454,369 (Northeastern portion), 2021-2024
- Co-PI, "Reclaiming Individual Autonomy and Democratic Discourse Online: How to Rebalance Human and Algorithmic Decision Making", Volkswagen Foundation, 1,440,300 Euros (Northeastern portion = 369,800 Euros), 2021-2024
- PI, "MACRO: Models for Enabling Continuous Reconfigurability of Secure Missions: Robustness to Adversarial Manipulation in Cyber Networks", Army Research Lab, $1,725,884, 2018-2023

Past Grants

- Co-PI, "BIGDATA: F: Collaborative Research: Design and Computation of Scalable Graph Distances in Metric Spaces: A Unified Multiscale Interpretable Perspective", National Science Foundation (Award #1741197), $1,623,240 (Northeastern portion = $1,023,987) + $350,000 in Google Cloud Platform credits, 2017-2023

- PI, "Decision-driven Discovery of MDO Complex Networks and Threats", US Air Force / MIT Lincoln Laboratories, $50,000, 2021-2023

- Co-PI, "Risking Justice: Examination of AI Algorithms in the Criminal Justice System", Northeastern University Tier 1 Grant, $35,000, 2019-2023

- Co-PI, "P-CORE: Privacy-enhanced Coordinated Enterprise Defense via Temporal and Topological Representation Learning", DARPA (CHASE Program), $1,249,850 (Northeastern portion), 2018-2022

- Co-PI, "Security Analytics", PricewaterhouseCoopers (PwC), $244,152, 2018-2022

- PI, "Courses of Action Over Incomplete Networks", US Air Force / MIT Lincoln Laboratories, $250,000, 2018-2021

- Co-PI, "Scoping Out the Periodic Table of Food", Rockefeller Foundation, $745,567, 2019-2020

- Co-PI, "Controlling the Jekyll and Hyde of Artificial-Intelligence Assisted Information Architectures: Accepting Customization while Resisting Micro-targeted Manipulation", Volkswagen Foundation, 148,000 Euros (Northeastern portion = 49,000 Euros), 2019-2020

- Co-PI, "Modeling Tools for the National Geospatial Intelligence Agency (NGA)", Global Resilience Institute, Northeastern University, $76,966, 2017-2019

- Co-PI, "Advancing Human-based Modeling with Large-scale High Performance Computing", DOD, $400,055, 2017-2018

- Co-PI, "Know Thy Enemy: Data Mining Meets Networks for Understanding Web-Based Malware Dissemination", National Science Foundation (Award #1314603), $1,000,000 (Rutgers portion = $333,333), 2013-2018

- Co-PI, "Scalable Robustness Analysis of Dynamic Heterogeneous Networks for Counter-WMD Operations under Uncertainty", Defense Threat Reduction Agency (DTRA), $700,000 (Rutgers portion = $159,938), 2014- 2017

- Co-PI, "Phase I: I/UCRC: Center for Dynamic Data Analytics (CDDA)", National Science Foundation (Award #1069258), $404,100, 2011-2017

- PI, "Adaptive Mapping for Network Characterization", Lawrence Livermore National Laboratory (LLNL), $90,000, 2014-2015

- PI, "Dynamics of Network Change Detection at Various Scales", Lawrence Livermore National Laboratory (LLNL), $90,000, 2013-2014

- PI, "Axiomatic Studies of Features for Network Map Detection and Characterization", Lawrence Livermore National Laboratory (LLNL), $98,103, 2012-2013

- PI, "Network Analysis of Washington Post Social Reader Data", Washington Post Labs, $51,500, 2012-2013

- Co-PI, "Understanding and Utilizing Context-Aware Information Dissemination in Social Media", DARPA, Program on Social Media in Strategic Communications (6.1 funding), $387,015 (Rutgers portion), 2012-2015

- Senior Personnel, "Research Experience for Undergraduates (REU): Perceptual Science & Technology", National Science Foundation, $303,675, 2011-2013

- Co-PI, "The De-Anonymization of Consumer Networks using Wireless and Wired Call Detail Data",

Wharton Customer Analytics Initiative (only 10 grants were awarded), $2,500, 2011

- Co-PI, "Robustness Analysis and Anomaly Detection of Interdependent Physical and Social Networks", Defense Threat Reduction Agency (DTRA), $1,060,000 (Rutgers portion = $222,082), 2010-2014

- Co-PI, "Semantic Ontological Techniques for Analyst Reasoning (SOTAR)", Air Force Research Laboratory (AFRL), $849,836, 2010-2012

- PI, "Cyber Situational Awareness through Host and Network Analysis", Lawrence Livermore National Laboratory (LLNL), $150,000, 2010-2011

- PI, "Capturing Node-level Behavioral Structure (a.k.a. Roles) in Static and Dynamic Networks", Lawrence Livermore National Laboratory (LLNL), $100,000, 2010-2011

- Co-PI, "Network Pattern Recognition Project", National Science Foundation (Award #0970179), $299,982 (Rutgers portion = $35,108), 2010-2011

- Co-PI, "Learning from Presence-Only Data, With Applications in Cyber Security and Ecology", University of California Lab-Fees Research Program Award, $472,748, 2009-2011

- Co-PI, "SETAC: Supercomputing Enabled Transformational Analytics Capability", Lawrence Livermore National Laboratory – Strategic Initiative Award, $5,100,000, November 2008 to September 2010 (was renewed in FY11 for $2,700,000)

- PI, "Role Discovery in Dynamic Semantic Graphs", Lawrence Livermore National Laboratory – Exploratory Research Award, $854,100, October 2008 to September 2010 (was renewed in FY11 for $456,220)

- Co-PI, "Predictive Knowledge Systems", Lawrence Livermore National Laboratory – Strategic Initiative Award, $12,500,000, 2006-2008

- Senior Personnel, "UCLA IPAM 2005 Graduate Summer School on Intelligent Extraction of Information from Graphs and High-dimensional Data", National Science Foundation (Award #0442015) for $199,735, Summer 2005

- Technical Point-of-Contact, Lawrence Livermore National Laboratory – External Collaboration Awards to Academia, $1,160,000, 2004-2010

Publications (available at http://eliassi.org/pubs.html)

Notation

[*] Graduate student and direct mentee at the time work was performed.
[†] Graduate student and co-mentee at the time work was performed.
[‡] Postdoc and direct mentee at the time work was performed.
[§] Junior member of my research project at the time work was performed.
[◊] Undergraduate student and direct mentee at the time work was performed.

Peer-reviewed Journal Articles

[J37] N. Heydaribeni, X. Zhan, R. Zhang, T. Eliassi-Rad, F. Koushanfar. Distributed Constrained Combinatorial Optimization leveraging Hypergraph Neural Networks. *Nature Machine Intelligence*. 2024 (forthcoming).

[J36] B. A. Miller[*], K.S. Chan, T. Eliassi-Rad. Complex Network Effects on the Robustness of Graph Convolutional Networks. *Applied Network Science*, Volume 9, Article 5, 2024.

[J35] B. Klein, T. LaRock, S. McCabe, L. Torres, L. Friedland, M. Kos, F. Privitera, B. Lake, M.U.G. Kraemer, J. S. Brownstein, R. Gonzalez, D. Lazer, T. Eliassi-Rad, S.V. Scarpino, A. Vespignani,

M. Chinazzi. Characterizing Collective Physical Distancing in the U.S. during the First Nine Months of the COVID-19 Pandemic. *PLOS Digital Health*, 3(2): e0000430, 2024.

[J34] G. Savcisens, T. Eliassi-Rad, L. Kai Hansen, L. Hvas Mortensen, L. Lilleholt, A. Rogers, I. Zettler, S. Lehmann. Using Sequences of Life-events to Predict Human Lives. *Nature Computational Science*, 4: 43-56, 2024.

[J33] D.L. Barabási, G. Bianconi, E. Bullmore, M. Burgess, S.Y. Chung, T. Eliassi-Rad, D. George, I.A. Kovács, H. Makse, T.E. Nichols, C. Papadimitriou, O. Sporns, K. Stachenfeld, Z. Toroczkai, E.K. Towlson, A.M. Zador, H. Zeng, A.-L. Barabási, A. Bernard, G. Buzsáki. Neuroscience Needs Network Science. *Journal of Neuroscience*, 43(34): 5989-5995, 2023.

[J32] W. Shiao, B.A. Miller[*], K.S. Chan, P.L. Yu, T. Eliassi-Rad, E.E. Papalexakis. TenGAN: Adversarially Generating Multiplex Tensor Graphs. *Data Mining and Knowledge Discovery*, pp. 1-21, August 2023. (Also presented at ECML PKDD 2023: The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases)

[J31] B.A. Miller[*], Z. Shafi[*], W. Ruml, Y. Vorobeychik, T. Eliassi-Rad, S. Alfeld. Attacking Shortest Paths by Cutting Edges. *ACM Transactions on Knowledge Discovery in Data* (TKDD), August 2023.

[J30] A. Chernikova[†], N. Gozzi, S. Boboila, N. Perra, T. Eliassi-Rad, A. Oprea. Modeling Self-Propagating Malware with Epidemiological Models. *Applied Network Science*, Volume 8, Article 52, 2023.

[J29] B. Klein, C.B. Ogbunugafor, B.J. Schafer, Z. Bhadricha, P. Kori, J. Sheldon, N. Kaza, E.A. Wang, T. Eliassi-Rad, S.V. Scarpino, E. Hinton. The COVID-19 Pandemic Amplified long-standing Racial Disparities in the United States Criminal Justice System. *Nature*, 617: 344–350, 2023.

[J28] A. Chatterjee, O. Shafi Ahmed, R. Walters, Z. Shafi[*], D. Gysi, R. Yu, T. Eliassi-Rad, A.-L. Barabási, G. Menichetti. AI-Bind: Improving Binding Predictions for Novel Protein Targets and Ligands. *Nature Communications*, 14, Article 1989, 2023.

[J27] T. LaRock[*], Ingo Scholtes, T. Eliassi-Rad. Sequential Motifs in Observed Walks. *Journal of Complex Networks* 10(5), cnac036, 2022.

[J26] X. Wang[†], Onur Varol, T. Eliassi-Rad. Information Access Equality on Generative Models of Complex Networks. *Applied Network Science*, Volume 7, Article 54, 2022.

[J25] T. LaRock[*], M. Xu, T. Eliassi-Rad. A Path-based Approach to Analyzing the Global Liner Shipping Network. *EPJ Data Science*, 11(1), 18, 2022.

[J24] C. Wagner, M. Strohmaier, A. Olteanu, E. Kiciman, N. Contractor, T. Eliassi-Rad. Measuring Algorithmically Infused Societies. *Nature*, 595: 197-204, 2021.

[J23] L. Torres[*], A. Sizemore Blevins, D.S. Bassett, T. Eliassi-Rad. The Why, How, and When of Representations for Complex Systems. *SIAM Review* (SIREV), 63(3): 435-485, 2021.

[J22] L.Torres[*], K.S. Chan, H. Tong, T. Eliassi-Rad. Nonbacktracking Eigenvalues under Node Removal: X-Centrality and Targeted Immunization. *SIAM Journal on Mathematics of Data Science* (SIMODS), 3(2): 656-675, 2021.

[J21] P. Morales, R. Caceres, T. Eliassi-Rad. Selective Network Discovery via Deep Reinforcement Learning on Embedded Spaces. *Applied Network Science*, Volume 6, Article 24, 2021.

[J20] T. LaRock[*], T. Sakharov[*], S. Bhadra[‡], T. Eliassi-Rad. Understanding the Limitations of Network Online Learning. *Applied Network Science*, Volume 5, Article 60, 2020.

[J19] T. Eliassi-Rad, H. Farrell, D. Garcia, S. Lewandowsky, P. Palacios, D. Ross, D. Sornette, K. Thébault, and K. Wiesner. What Science Can Do for Democracy: A Complexity Science Approach. *Humanities & Social Sciences Communications*, Volume 7, Article 30, 2020.

[J18] L. Torres[*], K.S. Chan, T. Eliassi-Rad. GLEE: Geometric Laplacian Eigenmap Embedding. *Journal of Complex Networks*, 8(2), cnaa007, 2020.

[J17] X. Wang[†], B. Yucesoy, Onur Varol, T. Eliassi-Rad, A.-L. Barabási. Success in Books: Predicting Book Sales Before Publication. *EPJ Data Science*, Volume 8, Article 31, 2019.

[J16] L. Torres[*], P. Suárez-Serrato, T. Eliassi-Rad. Non-backtracking Cycles: Length Spectrum Theory and Graph Mining Applications. *Applied Network Science*, Volume 4, Article 41, 2019.

[J15] K. Wiesner, A. Birdi, T. Eliassi-Rad, H. Farrell, D. Garcia, S. Lewandowsky, P. Palacios, D. Ross, D. Sornette, K. Thébault. Stability of Democracies: A Complex Systems Perspective. *European Journal of Physics*, 40(1): 014002, 2019.

[J14] K. Shin, T. Eliassi-Rad, C. Faloutsos. Patterns and Anomalies in K-cores of Real-world Graphs with Applications. *Knowledge and Information Systems*, 54(3): 677-710, 2018.

[J13] V. Van Vlasselaer[†], T. Eliassi-Rad, L. Akoglu, M. Snoeck, B. Baesens. GOTCHA! Network-based Fraud Detection for Social Security Fraud. *Management Science*, 63(9): 3090-3110, 2017.

[J12] C. Chen, H. Tong, B.A. Prakash, T. Eliassi-Rad, M. Faloutsos, C. Faloutsos. Eigen-optimization on Large Graphs by Edge Manipulation. *ACM Transactions on Knowledge Discovery in Data* (TKDD), 10(4), Article 49, June 2016.

[J11] C. Chen, H. Tong, B.A. Prakash, C.E. Tsourakakis, T. Eliassi-Rad, C. Faloutsos, D.H. Chau. Node Immunization on Large Graphs: Theory and Algorithms. *IEEE Transactions on Knowledge and Data Engineering* (TKDE), 28(1): 113-126, 2016.

[J10] C. Bravo, V. Van Vlasselaer, O. Caelen, T. Eliassi-Rad, L. Akoglu, M. Snoeck, B. Baesens. APATE: A Novel Approach for Automated Credit Card Transaction Fraud Detection Using Network-based Extensions. *Decision Support Systems*, 75: 38-48, 2015.

[J9] S. Basu Roy[‡], T. Eliassi-Rad, S. Papadimitriou. Fast Best-Effort Search on Graphs with Multiple Attributes. *IEEE Transactions on Knowledge and Data Engineering* (TKDE), 27(3): 755-768, 2015.

[J8] H. Tong, S. Papadimitriou, C. Faloutsos, P.S. Yu, T. Eliassi-Rad. Gateway Finder in Large Graphs: Problem Definitions and Fast Solutions. *Information Retrieval*, 15(3-4): 391-411, 2012.

[J7] J. Neville, B. Gallagher, T. Eliassi-Rad, T. Wang. Correcting Evaluation Bias of Relational Classifiers with Network Cross Validation. *Knowledge and Information Systems* (KAIS), 30(1): 31-55, 2012.

[J6] C. Ulmer, M. Gokhale, B. Gallagher, P. Top, T. Eliassi-Rad. Massively Parallel Acceleration of a Document-Similarity Classifier to Detect Web Attacks. *Journal of Parallel and Distributed Computing*, 71(2): 225-235, 2011.

[J5] B. Gallagher[§], T. Eliassi-Rad. Leveraging Label-Independent Features for Classification in Sparsely Labeled Networks: An Empirical Study. *Lecture Notes in Computer Science*: *Advances in Social Network Mining and Analysis*, Springer, 2009.

[J4] J. Sun, C. Tsourakakis, E. Hoke, and C. Faloutsos, T. Eliassi-Rad. Two Heads Better than One: Pattern Discovery in Time-evolving Multi-Aspect Data. *Data Mining and Knowledge Discovery Journal*, 17(1):111-128, 2008.

[J3] P. Sen, G. Namata, M. Bilgic, L. Getoor, B. Gallagher, T. Eliassi-Rad. Collective Classification in Network Data. *AI Magazine*, special issue on *AI and Networks*, 29(3):93-106, 2008.

[J2] Z. Shen, K.-L. Ma, T. Eliassi-Rad. Visual Analysis of Large Heterogeneous Social Networks by Semantic and Structural Abstraction. *IEEE Transactions on Visualization and Computer Graphics, Special Issue on Visual Analytics*, 12(6):1427-1439, 2006.

[J1] T. Eliassi-Rad, J. Shavlik. A System for Building Intelligent Agents that Learn to Retrieve and Extract Information. *International Journal of User Modeling and User-Adapted Interaction*, special issue on *User Modeling and Intelligent Agents*, 13(4):35-88, 2003.

Peer-reviewed Conference Papers (Archival)

[C54] D. Liu[*], T. Eliassi-Rad. STABLE: Identifying and Mitigating Instability in Embeddings of the Degenerate Core. In *Proceedings of the 2023 SIAM International Conference on Data Mining* (SDM), April 2023.

[C53] D. Li, T. Eliassi-Rad; H. R. Zhang. Optimal Intervention on Weighted Networks via Edge Centrality. In *Proceedings of the 2023 SIAM International Conference on Data Mining* (SDM), April 2023.

[C52] A. Chernikova, N. Gozzi, S. Boboila, P. Angadi, J. Loughner, M. Wilden, N. Perra, T. Eliassi-Rad, A. Oprea. Cyber Network Resilience against Self-Propagating Malware Attacks. In *Proceedings of the 27th European Symposium on Research in Computer Security* (ESORICS), September 2022.

[C51] D. Liu[*], P. Nanayakkara, S. Sakha, G. Abuhamad, S.L. Blodgett, N. Diakopoulos, J. Hullman, T. Eliassi-Rad. Examining Responsibility and Deliberation in AI Impact Statements and Ethics Reviews. In *Proceedings of the 2022 AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society* (AIES), August 2022.

[C50] T. Ongun[†], O. Spohngellert, B. Miller[*], S. Boboila, A. Oprea, T. Eliassi-Rad, J. Hiser, A. Nottingham, J. Davidson, M. Veeraraghavan. PORTFILER: Port-Level Network Profiling for Self-Propagating Malware Detection. In *Proceedings of the 9th IEEE Conference on Communications and Network Security* (IEEE CNS), October 2021.

[C49] B.A. Miller[*], Z. Shafi[§], W. Ruml, Y. Vorobeychik, T. Eliassi-Rad, S. Alfeld. PATHATTACK: Attacking Shortest Paths in Complex Networks, In *Proceedings of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases* (ECML PKDD), September 2021.

[C48] D. Liu[*], Z. Shafi[§], W. Fleisher[‡], T. Eliassi-Rad, S. Alfeld. RAWLSNET: Altering Bayesian Networks to Encode Rawlsian Fair Equality of Opportunity. In *Proceedings of the 2021 AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society* (AIES), May 2021, pp. 745-755.

[C47] S. Yu, L. Torres[*], S. Alfeld, T. Eliassi-Rad, Y. Vorobeychik. POTION: Optimizing Graph Structure for Targeted Diffusion. In *Proceedings of the 2021 SIAM Data Mining Conference* (SDM), May 2021, pp. 154-162.

[C46] T. LaRock[*], V. Nanumyan, I. Scholtes, G. Casiraghi, T. Eliassi-Rad, F. Schweitzer. HYPA: Efficient Detection of Path Anomalies in Time Series Data on Networks. In *Proceedings of the 2020 SIAM International Conference on Data Mining* (SDM), May 2020, 460-468.

[C45] R. Laishram, A.E. Sariyüce, T. Eliassi-Rad, A. Pinar, S. Soundarajan. Residual Core Maximization: An Efficient Algorithm for Maximizing the Size of the k-Core. In *Proceedings of the 2020 SIAM International Conference on Data Mining* (SDM), May 2020, 325-333.

[C44] P. Morales, R. S. Caceres, and <u>T. Eliassi-Rad</u>. Deep Reinforcement Learning for Task-driven Discovery of Incomplete Networks. In *Proceedings of the 8th International Conference on Complex Networks and their Applications* (COMPLEX NETWORKS), Lisbon, Portugal, December 2019, pp. 903-914.

[C43] S. Zhang, H. Tong, R. Maciejewski, <u>T. Eliassi-Rad</u>. Multilevel Network Alignment. In *Proceedings of the Web Conference* (WWW), San Francisco, CA, May 2019, pp. 2344-2354.

[C42] R. Laishram, A.E. Sariyüce, <u>T. Eliassi-Rad</u>, A. Pinar, S. Soundarajan. Measuring and Improving the Core Resilience of Networks. In *Proceedings of the World Wide Web Conference* (WWW), Lyon, France, April 2018, pp. 608-618.

[C41] S. Soundarajan[‡], <u>T. Eliassi-Rad</u>, B. Gallagher, A. Pinar. ε-WGX: Adaptive Edge Probing for Enhancing Incomplete Networks. In *Proceedings of the 9th International ACM Web Science Conference* (WebSci), Troy, NY, June 2017, pp. 161-170.

[C40] K. Shin, <u>T. Eliassi-Rad</u>, C. Faloutsos. CoreScope: Graph Mining Using k-Core Analysis-- Patterns, Anomalies, and Algorithms. In *Proceedings of the 16th IEEE International Conference on Data Mining* (ICDM), Barcelona, Spain, December 2016, pp. 469-478. (**Among Best in Conference)**

[C39] S. Soundarajan[‡], <u>T. Eliassi-Rad</u>, B. Gallagher, A. Pinar. MaxReach: Reducing Network Incompleteness through Node Probes. In *Proceedings of the 2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining* (ASONAM), San Francisco, CA, August 2016, pp. 152-157.

[C38] P. Govindan[*], S. Soundarajan, <u>T. Eliassi-Rad</u>, C. Faloutsos. NimbleCore: A Space-efficient External Memory Algorithm for Estimating Core Numbers. In *Proceedings of the 2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining* (ASONAM), San Francisco, CA, August 2016, pp. 207-214.

[C37] S. Basu Roy[‡], <u>T. Eliassi-Rad</u>, S. Papadimitriou. Fast Best-Effort Search on Graphs with Multiple Attributes. In *Proceedings of the 32nd IEEE International Conference on Data Engineering* (ICDE), TKDE Poster Track, Helsinki, Finland, May 2016, pp. 1574-1575.

[C36] S. Soundarajan[‡], A. Tamersoy, E.B. Khalil, <u>T. Eliassi-Rad</u>, D.H. Chau, B. Gallagher, K. Roundy. Generating Graph Snapshots from Streaming Edge Data. In *Proceedings of the 25th International World Wide Web Conference* (WWW), Companion Volume, Montreal, Canada, April 2016, pp. 109-110.

[C35] A. Chaney, D. Blei, <u>T. Eliassi-Rad</u>. A Probabilistic Model for Using Social Networks in Personalized Item Recommendation. In *Proceedings of the 9th ACM Recommender Systems Conference* (RecSys), Vienna, Austria, September 2015, pp. 43-50.

[C34] V. Van Vlasselaer[†], <u>T. Eliassi-Rad</u>, L. Akoglu, M. Snoeck, B. Baesens. AFRAID: Fraud Detection via Active Inference in Time-evolving Social Networks. In *Proceedings of the 7th IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining* (ASONAM, Industrial Track), Paris, France, August 2015, pp. 659-666.

[C33] L.T. Le[*], <u>T. Eliassi-Rad</u>, H. Tong. MET: A Fast Algorithm for Minimizing Propagation in Large Graphs with Small Eigen-Gaps. In *Proceedings of the 2015 SIAM International Conference on Data Mining* (SDM), Vancouver, British Columbia, Canada, April 2015, pp. 694-702.

[C32] K. Henderson[§], B. Gallagher, <u>T. Eliassi-Rad</u>. EP-MEANS: An Efficient Nonparametric Clustering of Empirical Probability Distributions. In *Proceedings of the 30th ACM SIGAPP Symposium On Applied Computing* (SAC), Salamanca, Spain, April 2015, pp. 893-900.

[C31] V. Van Vlasselaer[†], L. Akoglu, <u>T. Eliassi-Rad</u>, M. Snoeck, B. Baesens. Guilt-by-Constellation: Fraud Detection by Suspicious Clique Memberships. In *Proceedings of the 48th Annual Hawaii International Conference on System Sciences* (HICSS), Kauai, HI, January 2015, pp. 918-927.

[C30] S. Soundarajan[‡], <u>T. Eliassi-Rad</u>, B. Gallagher. A Guide to Selecting a Network Similarity Method. In *Proceedings of the 2014 SIAM International Conference on Data Mining* (SDM), Philadelphia, PA, April 2014, pp. 1037-1045.

[C29] M. Berlingerio[‡], D. Koutra, <u>T. Eliassi-Rad</u>, C. Faloutsos. Network Similarity via Multiple Social Theories. In *Proceedings of the 5th IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining* (ASONAM), Niagara Falls, Canada, August 2013, pp. 1439-1440.

[C28] S. Gilpin, <u>T. Eliassi-Rad</u>, I. Davidson. Guided Learning for Role Discovery (GLRD): Framework, Algorithms, and Applications. In *Proceedings of the 19th ACM SIGKDD Conference on Knowledge Discovery and Data Mining* (KDD), Chicago, IL, August 2013, pp. 113-121.

[C27] H. Hang, X. Wei, M. Faloutsos, <u>T. Eliassi-Rad</u>. Entelecheia: Detecting P2P Botnets in their Waiting Stage. In *Proceedings of the 12th IEEE IFIP Networking Conference* (Networking), Brooklyn, NY, May 2013, pp.1-9.

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[P32] S. Dies[*], D. Liu[*], S. Krishnagopal, <u>T. Eliassi-Rad</u>. Unraveling the Impact of Co-authorship on Faculty Placement. *Conference on Complex Systems (CCS) Satellite on Towards Equitable and Just Societies: Unravelling the Complexities*, October 2023. (oral presentation)

[P31] B.A. Miller[*], Z. Shafi[*], W. Ruml, Y. Vorobeychik, <u>T. Eliassi-Rad</u>, S. Alfeld. Defense Against Shortest Path Attacks. *The 2022 International Conference on Network Science* (NetSci), Virtual Conference, July 2022. (oral presentation)

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[P22]   L. Torres[*], K.S. Chan, H. Tong, T. Eliassi-Rad. Node Immunization with Non-backtracking Eigenvalues and X-Centrality. *Conference on Complex Systems*, December 2020. (oral presentation)

[P21]   T. Larock[*], V. Nanumyan, I. Scholtes, T. Eliassi-Rad. Frequency of Significant Sequential Motif Structures Reveal Patterns in Pathway Data. *The 2020 International Conference on Network Science* (NetSci), Virtual Conference, September 2020. (oral presentation)

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[P16]   T. LaRock[*], G. Casiraghi, V. Nanumyan, I. Scholtes, T. Eliassi-Rad, Frank Schweitzer. Finding Over- and Under-represented Pathways in Higher Order Networks. *The 2019 International Conference on Network Science* (NetSci), Burlington, VT, May 2019. (oral presentation)

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[P10] T. LaRock[*], T. Sakharov, S. Bhadra, <u>T. Eliassi-Rad</u>. Limits of Learning in Incomplete Networks. *The 2018 International Conference on Network Science* (NetSci), Paris, France, June 2018. (oral presentation)

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[P7] T. LaRock[*], T. Sakharov, S. Bhadra, <u>T. Eliassi-Rad</u>. Learning to Complete Partially Observed Networks. *The 9th International Conference on Complex Networks* (CompleNet), Boston, MA, March 2018. (oral presentation)

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[M26] G. Lee, F. Bu, <u>T. Eliassi-Rad</u>, K. Shin. A Survey on Hypergraph Mining: Patterns, Tools, and Generators. *arXiv*, 2401.08878, January 2024.

[M25] D. Liu[*], J. Baek, <u>T. Eliassi-Rad</u>. When Collaborative Filtering is not Collaborative: Unfairness of PCA for Recommendations. *arXiv*, 2310.09687, October 2023.

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[M18] T. LaRock[*], <u>T. Eliassi-Rad</u>, M. Xu. Higher-order Representations of Liner Shipping Data. Bulletin of the American Physical Society, March 2022.

[M17] <u>T. Eliassi-Rad</u>, V. Latora, M. Rosvall, I. Scholtes. Higher-Order Graph Models: From Theoretical Foundations to Machine Learning (Dagstuhl Seminar 21352). Dagstuhl Reports 11(7), 2021. https://bit.ly/3MzTLia

[M16] J.B. Jensen, L. Singh, P. Davis-Kean, K. Abraham, P. Beatty, L. Bode, D. Horng Chau, <u>T. Eliassi-Rad</u>, R. Gonzalez, R. Hamilton, I. Song Kim, T. Kuchler, J. Ladd, K. Lerman, M. Levenstein, Z. Mneimneh, Q. Camthi Nguyen, J. Pasek, T. Raghunathan, R. Ryan, S. Soroka, M. Tadesse, M. Traugott. Analysis and Visualization Considerations for Quantitative Social Science Research Using Social Media Data. *PsyArXiv*, doi: 10.31234/osf.io/p2j5z, July 2021.

[M15] B.A. Miller[*], Z. Shafi[§], W. Ruml, Y. Vorobeychik, <u>T. Eliassi-Rad</u>, S. Alfeld. Optimal Edge Weight Perturbations to Attack Shortest Paths. *arXiv*, 2107.03347, July 2021.

[M14] T. Ongun[†], S. Boboila, A. Oprea, <u>T. Eliassi-Rad</u>, A. Nottingham, J. Hiser, J.W. Davidson. Collaborative Information Sharing for ML-Based Threat Detection, *arXiv*, 2104.11636, April 2021.

[M13]   T. Eliassi-Rad, B. Fitelson. Exploring Impossibility Theorems for Algorithmic Fairness with PrSAT. Technical Report. RADLAB, Northeastern University, Boston, MA, March 2021. http://fitelson.org/exploring_impossibility.pdf

[M12]   B. Klein, T. LaRock*, S. McCabe, L. Torres*, L. Friedland, F. Privitera, B. Lake, M.U.G. Kraemer, J. S. Brownstein, D. Lazer, T. Eliassi-Rad, S.V. Scarpino, A. Vespignani, M. Chinazzi. Reshaping A Nation: Mobility, Commuting, and Contact Patterns during the COVID-19 Outbreak. Network Science Institute Technical Report. Northeastern University, Boston, MA, May 2020. https://bit.ly/32XTRLM

[M11]   B. Klein, T. LaRock*, S. McCabe, L. Torres*, F. Privitera, B. Lake, M.U.G. Kraemer, J.S. Brownstein, D. Lazer, T. Eliassi-Rad, S.V. Scarpino, M. Chinazzi, A. Vespignani. Assessing Changes in Commuting and Individual Mobility in Major Metropolitan Areas in the United States during the COVID-19 Outbreak. Network Science Institute Technical Report. Northeastern University, Boston, MA, March 2020. https://bit.ly/3xzSIIn

[M10]   B.A. Miller*, M. Çamurcu, A.J. Gomez, K.S. Chan, Tina Eliassi-Rad. Topological Effects on Attacks Against Vertex Classification. *arXiv*, 2003.05822, March 2020.

[M9]   X. Wang*, O. Varol, T. Eliassi-Rad. L2P: An Algorithm for Estimating Heavy-tailed Outcomes. *arXiv*, 1908.04628, August 2019.

[M8]   T. Abdelzaher, J. Han, C. Faloutsos, T. Eliassi-Rad. Robustness Analysis and Anomaly Detection of Interdependent Physical and Social Networks. Technical Report (HDTRA1-10-1-0120), University of Illinois Urbana-Champaign, September 2018.

[M7]   S. Gilpin, C.-T. Kuo, T. Eliassi-Rad, I. Davidson. Some Advances in Role Discovery in Graphs. *arXiv*, 1609.02646, September 2016.

[M6]   L.B. Holder, R. Caceres, D.F. Gleich, E.J. Riedy, M. Khan, N.V. Chawla, R. Kumar, Y. Wu, C. Klymko, T. Eliassi-Rad, B.A. Prakash. Current and Future Challenges in Mining Large Networks: Report on the Second SDM Workshop on Mining Networks and Graphs. *SIGKDD Explorations*. 18(1): 39-45 (2016)

[M5]   T. Eliassi-Rad, B. Fitelson. A Proposal for Decreasing Geographical Inequality in College Admissions. Chapter 12 Appendix in *The Future of Affirmative Action*, Eds: J. Renker and J. Miller, The Century Foundation Press, 2014. (Available at http://fitelson.org/tie.pdf)

[M4]   T. Eliassi-Rad. Social Order in Online Social Networks, in *Encyclopedia of Social Network Analysis and Mining* (ESNAM). Eds: R. Alhajj and J. Rokne, Springer, 2014, pp. 1918-1920.

[M3]   M. Gupte, T. Eliassi-Rad. Measuring Tie Strength in Implicit Social Networks. *Workshop on Computational and Online Social Science* (CAOSS), New York, NY, October 2012. (poster presentation)

[M2]   T. Eliassi-Rad, T. Critchlow. Similarity in Computational Sciences. *The 2005 Learning Workshop*, Snowbird, UT, April 2005. (invited submission)

[M1]   J. Shavlik, T. Eliassi-Rad. Building Intelligent Agents for Web-Based Tasks: A Theory-Refinement Approach. *Workshop on Learning from Text and the Web*, part of *Conference on Automated Learning and Discovery* (CONALD), Pittsburgh, PA, June 1998.

Theses

- "Building Intelligent Agents that Learn to Retrieve and Extract Information", Ph.D. dissertation, Computer Sciences Department, University of Wisconsin, Madison, WI, 2001.

- "Visual Support for the ISLE Simulation Environment", M.S. thesis, Department of Computer Science, University of Illinois, Urbana-Champaign, IL, 1995.

Patents

- F. Provost, <u>T. Eliassi-Rad</u>, L. Moores. Methods, Systems, and Media for Determining Location Information from Real-time Bid Requests. US Patent No. 9014717, issued April 21, 2015.

Invited Presentations

Year 2024

285. Keynote, The 13th International Conference on Complex Networks and their Applications (COMPLEX NETWORKS), Istanbul, Türkiye, December 2024

284. Closing keynote, Satellite on Hypergraphs: Theory and Applications, Isaac Newton Institute for Mathematical Sciences, London, England, August 2024

283. Community Lecture (sponsored by Santa Fe Institute), Santa Fe, NM, June 2024

282. Keynote, TrustLOG: The 2nd Workshop on Trustworthy Learning on Graphs (co-located with The Web Conference), May 2024 (virtual)

281. Panel on Shaping Tomorrow: Perspectives on Human-Centered AI and Data Science, SIAM International Conference on Data Mining (SDM), Houston, TX, April 2024

280. Center for Cultural Analytics Lecture, Berkeley Institute for Data Science, University of California, Berkeley, CA, March 2024

279. DEI talk, Department of Electrical and Computer Engineering, Northeastern University, Boston, MA, February 2024

278. Harvard WEcode Conference, February 2024

277. School of Mathematics and Computer Science, Sharif University of Technology, February 2024 (virtual)

276. Data Sciences Speaker Series, University of Toronto, Toronto, Canada, January 2024

Year 2023

275. Graph Limits and Processes on Networks Reunion, Simons Institute for the Theory of Computing, University of California, Berkeley, CA, December 2023

274. GETTING-Plurality Summit on AI and Democracy, Harvard University, Cambridge, MA, November 2023

273. Fordham Law Review Symposium on "The New AI: Legal and Ethical Implications of ChatGPT and Other Emerging Technologies," New York, NY, November 2023

272. Workshop on Complexity Theory, Social Ontology & Social Change, MIT, Cambridge, MA, October 2023

271. Introductory Workshop: Algorithms, Fairness, and Equity, MSRI/SLMath, University of California, Berkeley, CA, August 2023

270. Santa Fe Institute, Santa Fe, NM, August 2023

269. Future Joint Warfare Symposium, US Naval War College, Newport, RI, August 2023

268. The Lipari School for Scientific Research on Complex Networks: From Socio-economic Systems to Biology and the Brain, Lipari, Italy, July 2023

267. Centre International de Mathématiques Pures et Appliquées (CIMPA) School on Graph Structure and Complex Network Analysis, Şirince, Türkiye, June 2023

266. International Conference on Complex Networks (CompleNet), Aveiro, Portugal, April 2023

265. Nature of Bias Conference, Claremont McKenna College, April 2023

264. Cross-cutting Workshop on Understanding the Rules of Life Program, National Academies of Sciences, Engineering, and Medicine (NASEM), March 2023 (virtual)

263. Women in Data Science (WiDS) Cambridge Conference, Cambridge, MA, March 2023

262. Workshop Artificial Intelligence and Discrete Optimization, Institute for Pure and Applied Mathematics (IPAM), University of California Los Angeles, February 2023

261. Guest Lecturer, Data Science Ethics Course, University of California Riverside, February 2023 (virtual)

260. Network Science Society Colloquium, February 2023 (virtual)

259. Stanford RAIN (Research on Algorithms and Incentives in Networks) Seminar, Department of Management Science and Engineering, Stanford University, January 2023

Year 2022

258. Megagon Labs, Mountain View, CA, December 2022

257. Workshop on Fairness and Explainability, Harvard Data Science Initiative Annual Conference, November 2022

256. Department of Computer Science and Engineering (CSE), University of California San Diego, November 2022

255. Kavli Salon on Network Science Meets Neuroscience, The Kavli Foundation, Los Angeles, CA, October 2022

254. MIT Lincoln Laboratory's AI for Great Good, September 2022

253. Workshop on Augmenting Individual Intelligence by Collaborating with People and Technologies, August 2022 (virtual)

252. Data Science Institute, Lawrence Livermore National Laboratory, Livermore, CA, August 2022 (virtual)

251. Data Science for Social Good, Carnegie Mellon University, July 2022

250. Boston Museum of Science, AI and Healthcare Community Forum, Boston, MA, June 2022

249. Boston Museum of Science, AI in Healthcare Salon, Boston, MA, May 2022

248. MIT Lincoln Laboratory's Graph Exploitation Symposium (GraphEx), May 2022 (virtual)

247. The Web Conference 2022 Workshop on Graph Learning Benchmarks (GLB), April 2022 (virtual)

246. The 2022 Open Data Science Conference (ODSC) – East, Boston, MA, April 2022

245. Boston Museum of Science, Spring 2022 Science & Society High School Symposium: Navigating a World with AI, Boston, MA, April 2022

244. Trustworthy AI Panel, Discover Experiential AI, Northeastern University, Boston, MA, April 2022

243. Santa Fe Institute Workshop, Can Algorithms Bend the Arc Toward Justice?, March 2022 (virtual)

242. WSDM 2022 Workshop on Integrity in Social Networks and Media, February 2022 (virtual)

241. Santa Fe Institute, Complexity Interactive, January 2022 (virtual)

240. Simula Research Laboratory, Oslo, Norway, January 2022 (virtual)

Year 2021

239. Centro de Ciencias de la Complejidad, Universidad Nacional Autónoma de México, December 2021 (virtual)

238. NeurIPS 2021 I (Still) Can't Believe It's Not Better! Workshop (ICBINB), December 2021 (virtual)

237. Fall 2021 Discrete Math Day in the Northeast, September 2021 (virtual)

236. Institute for Experiential AI, Northeastern University, September 2021 (virtual)

235. Blalock Lecture Series, ICPSR Summer Program in Quantitative Methods of Social Research, July 2021 (virtual)

234. Harvard Annual Bioethics Conference, Boston, MA, June 2021 (virtual)

233. Northeastern Alumni Relations Talk, Northeastern University, Boston, MA, May 2021 (virtual)

232. Deloitte Women in AI Event, May 2021 (virtual)

231. Computational Social Science Seminar, Facebook, April 2021 (virtual)

230. Masterclass, COLLISION Conference, April 2021 (virtual)

229. Institute for Data Science, New Jersey Institute of Technology (NJIT), Jersey City, NJ, April 2021 (virtual)

228. Data Science Invited Talk Series, Luddy School of Informatics, Computing, and Engineering--in conjunction with the Interdisciplinary Training in Complex Networks and Systems (CNS-NRT), Indiana University, Bloomington, IN, April 2021 (virtual)

227. Data Wednesday Seminar Series, Data Science initiative, Brown University, Providence, RI, April 2021 (virtual)

226. Research, Innovation, Scholarship, and Entrepreneurship (RISE) Conference, Northeastern University, Boston, MA, April 2021 (virtual)

225. American Philosophical Association (APA) Pacific Meeting, April 2021 (virtual)

224. Math & Democracy Seminar, Center for Data Science, New York University, New York, NY March 2021 (virtual)

223. Machine Learning and Data Analysis Symposium (MLDAS), Qatar, March 2021 (virtual)

222. AccelNet-MultiNet Program, Indiana University, Bloomington, IN, March 2021 (virtual)

221. UCLA IPAM Workshop on Deep Learning and Combinatorial Optimization (DLC), Los Angeles, CA, February 2021 (virtual)

220. Colloquium speaker, Mechanism Design for Social Good (MD4SG), February 2021 (virtual)

219. Wednesdays @ NICO Webinar, Northwestern Institute on Complex Systems (NICO), Northwestern University, Evanston, IL, February 2021 (virtual)

Year 2020

218. Conference on Complex Systems (CCS), Satellite on Complex Systems for the Most Vulnerable, December 2020 (virtual)

217. Boston Chapter INFORMS, Bentley University, Waltham, MA, December 2020 (virtual)

216. Distinguished Lecture Series, Department of Computer Science and Engineering, George Mason University, Fairfax, VA, November 2020 (virtual)

215. Flagship Pioneering, Cambridge, MA, November 2020 (virtual)

214. The 2020 Open Data Science Conference (ODSC) – West Virtual, October 2020 (virtual)

213. Italian Society for Chaos and Complexity, October 2020 (virtual)

212. Roundtable on Ethics and AI, The Helix Center, New York, NY, September 2020 (virtual)

211. Distinguished speaker, Computer Science Research Day, University of Vermont, Burlington, VT, September 2020 (virtual)

210. Keynote, ECAI 2020 Workshop on Robustness of AI Systems Against Adversarial Attacks, August 2020 (virtual)

209. Keynote, International Conference on Complex Systems, July 2020 (virtual)

208. Keynote, ICML 2020 Workshop on Graph Representation Learning and Beyond, Vienna, Austria, July 2020 (virtual)

207. Workshop on Graphs and Networks, Tufts University, Medford, MA, July 2020 (virtual)

206. Keynote, A Getty Advanced Workshop on Network Analysis and Digital Art History, Pittsburgh, PA, June 2020 (virtual)

205. Colloquium, Santa Fe Institute, Santa Fe, NM, June 2020 (virtual)

204. Colloquium, Department of Philosophy & Institute for Artificial Intelligence, University of Georgia, Athens, GA, April 2020 (virtual)

203. Data Science Group Seminar, Facebook, Menlo Park, CA, February 2020

Year 2019

202. Boston Chapter of the American Statistical Association, Bentley University, Waltham, MA, December 2019

201. Department of Computer Science, University of Massachusetts, Lowell, MA, November 2019

200. Keynote, The 2019 Michigan Institute for Data Science (MIDAS) Symposium, University of Michigan, Ann Arbor, MI, November 2019

199. Panel on "Does Data Ethics Matter?", The 6th IEEE International Conference on Data Science and Advanced Analytics (DSAA), Washington, DC, October 2019

198. Department of Computer Science, Amherst College, Amherst, MA, September 2019

197. Conference on Algorithmic Bias in Machine Learning, Duke University, Durham, NC, September 2019

196. MITRE, Bedford, MA, September 2019

195. Workshop on the Ethics of AI and the AI of Ethics, Australian National University, Canberra, Australia, August 2019

194. Panel on "What, Why, and How of Democratization of Data Science", The 2019 ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), Anchorage, AK, August 2019

193. The Lipari School for Scientific Research on Complex Networks from Socio-economic Systems to Biology and Brain, Lipari, Italy, July 2019

192. Department of Electrical Engineering and Computer Science, Leibniz University of Hannover, Hannover, Germany, July 2019

191. Panel on "Data Ethics", The 2019 ACM SIGMOD/PODS Conference, Amsterdam, The Netherlands, June 2019

190. Keynote, SIGMOD Workshop on Graph Data Management Experiences & Systems – Network Data Analysis (GRADES-NDA), Amsterdam, Netherlands, June 2019

189. Department of Computer Science, University of Turin, Turin Italy, June 2019

188. Panel on "The Future of Media and Misinformation", The 2019 ACM Conference on Collective Intelligence, Pittsburgh, PA, June 2019

187. Keynote, International Conference on Network Science (NetSci), Burlington, VT, May 2019

186. Lake Como School on Networks, Lake Como, Italy, May 2019

185. Interdisciplinary Seminar for The Law of Big Data Project, University of Padua, Padua, Italy, May 2019

184. Workshop on Ethics of AI and Healthcare, New York University, New York, NY, April 2019

183. Center for Disease Control, Atlanta, GA, March 2019

182. The Geometric Analysis Approach to AI Workshop, Center for Mathematical Sciences and Applications, Harvard University, January 2019

Year 2018

181. Department of Informatics, University of Zürich, Zürich, Germany, December 2018

180. Porto Winter School on Network Science, Porto, Portugal, December 2018

179. Cybersecurity and Privacy Institute Annual Conference, Northeastern University, November 2018

178. Citi Fair Lending Offsite, New York, NY, October 2018

177. Distinguished Lecture Series, Department of Computer Science and Engineering, University of California at San Diego, October 2018

176. Panel, Women in Machine Learning and AI, Cambridge, MA, October 2018

175. Joint Bioethics Colloquium, Department of Bioethics, National Institutes of Health, September 2018

174. NULab Digital Scholarship Group Fall Welcome Event, Northeastern University, September 2018

173. Workshop on Foundations of Learning from Data, Bertinoro, Italy, September 2018

172. Institute of Physics, Belgrade, Serbia, August 2018

171. US-Serbia & West Balkan Data Science Workshop, Belgrade, Serbia, August 2018

170. IBM Watson Research Center, Yorktown Heights, NY 10598 August 2018

169. The 2nd Workshop on Decision Theory and the Future of Artificial Intelligence, Munich, Germany, July 2018

168. Mini-symposium on Linear Algebra in Network Computations, SIAM Annual Meeting, Portland, OR, July 2018

167. GESIS, Köln, Germany, June 2018

166. CNRS/RESCOM/MADICS Summer School on Machine Learning and Data Mining on Networks, Porquerolles, France, June 2018

165. Department of Computer Science, Technical University of Dortmund, Dortmund, Germany, June 2018

164. Florida Business Analytics Forum, University of South Florida, Tampa, FL, May 2018

163. Panel on Broadening Participation in Data Science, SIAM Data Mining Conference (SDM), San Diego, CA, May 2018

162. MIT Lincoln Laboratory's Graph Exploitation Symposium (GraphEx), Dedham, MA, April 2018

161. Machine Learning Seminar, Raytheon BBN Technologies, Cambridge, MA, April 2018

160. The 14th Annual Black Policy Conference: Beyond the Blueprint – Triumph Through Practice & Policy, Harvard Kennedy School, Cambridge, MA, April 2018

159. Program in Science, Technology, and Society, Tufts University, Medford, MA, April 2018

158. Many Paths to Privacy: Exploring Privacy Across Fields, Center for Law, Innovation and Creativity (CLIC), Northeastern University, Boston, MA, April 2018

157. NULab Spring Conference, Northeastern University, Boston, MA, March 2018

156. Women in Data Science, Turin, Italy, February 2018

155. The 2018 BIFI International Conference on Complexity, Networks and Collective Behavior, Zaragoza, Spain, February 2018

154. School of Computing, Informatics, and Decision Systems Engineering, Arizona State University, Tempe, AZ, January 2018

153. How Stable are Democracies? – Complex Systems Perspectives on Modern Society, Bristol, UK, January 2018

Year 2017

152. UCLA IPAM Culture Analytics Reunion Workshop, Lake Arrowhead, CA, December 2017

151. Department of Computer Science and Engineering, University of Buffalo, Buffalo, NY, November 2017

150. Public Lecture, Edmond J. Safra Center for Ethics, Harvard University, Cambridge, MA, November 2017

149. Pattern Theory Seminar, Division of Applied Mathematics, Brown University, Providence, RI, November 2017

148. NSF-FAST Workshop on Machine Learning for Discovery Sciences, Yerevan, Armenia, October 2017

147. The Annual Data Institute SF Conference, Network Analytics Workshop, San Francisco, CA, October 2017

146. Symposium on Worlds of Entanglement, Brussels, Belgium, September 2017

145. Conference on Complex Systems (CCS), The 5th Computational Social Science Satellite, Cancun, Mexico, September 2017

144. WIP Seminar Series, Universidad de Buenos Aires, Buenos Aires, Argentina, September 2017

143. Computational Social Science Summer School, Sardinia, Italy, July 2017

142. International Conference on Network Science (NetSci), Machine Learning in Network Science Satellite, Indianapolis, IN, June 2017

141. International School on Network Science (NetSci), Indianapolis, IN, June 2017

140. New England Machine Learning (NEML) Day, Cambridge, MA, May 2017

139. Harvard Medical School, Channing Network Science Seminar, Boston, MA, February 2017

138. Computational Social Science and Public Policy Colloquium, University of Chicago, Chicago, IL, January 2017

Year 2016

137. IEEE ICDM, Panel on "How We Can/Should Handle the Offline vs. Online Data Gap?", Barcelona, Spain, December 2016

136. IEEE ICDM PhD Forum, "Top Ten List of Things That I've Learned Advising PhD Students", Barcelona, Spain, December 2016

135. Military Operations Research Society, Emerging Techniques Special Meeting (METSM), December 2016

134. GESIS Computational Social Science Winter Symposium, Cologne, Germany, November 2016

133. The 8th International Conference on Social Informatics (SocInfo), Bellevue, WA, November 2016

132. MIT, Machine Learning Seminar, Cambridge, MA, October 2016

131. Harvard University, The Institute for Quantitative Social Science (IQSS), Applied Statistics Workshop, Cambridge, MA, October 2016

130. University of Massachusetts Amherst, Computational Social Science Institute, Amherst, MA, October 2016

129. Conference on Complex Systems (CCS), Amsterdam, Netherlands, September 2016

128. University of Antwerp's Data Science Summit, Venice, Italy, September 2016

127. Two Sigma Labs, New York, NY, July 2016

126. StatPhys26 Satellite Meeting on "Complex Networks: From Theory to Interdisciplinary Applications", Marseilles, France, July 2016

125. The 2016 International Conference on Social Computing, Behavioral-Cultural Modeling, & Prediction and Behavior Representation in Modeling and Simulation, Washington, DC, June 2016

124. UCLA IPAM Culture Analytics Culminating Workshop, Lake Arrowhead, CA, June 2016

123. UCLA IPAM Workshop III: Cultural Patterns: Multiscale Data-driven Models, Los Angeles, CA, May 2016

122. The 2nd International Workshop on Machine Learning Methods for Recommender Systems (MLRec) at SIAM SDM, Miami, FL, May 2016

121. Washington State University, Distinguished Speaker Series in Data Science, Pullman, WA, March 2016

120. UCLA IPAM Culture Analytics Tutorials, Los Angeles, CA, March 2016

119. German Center for Research and Innovation (GCRI), Panel Moderator for "Big Data – Small Devices", New York, NY, March 2016

118. University of California San Diego, Workshop on Big Graphs: Theory and Practice, San Diego, CA, January 2016

Year 2015

117. IEEE ICDM Workshop on Behavior Analysis, Modeling, and Steering (BEAMS), Atlantic City, NJ, November 2015

116. IEEE ICDM PhD Forum, Panel on "Life after PhD", Atlantic City, NJ, November 2015

115. NYU Workshop on Information in Networks (WIN), New York, October 2015

114. NICTA, Australia National University, Canberra, Australia, August 2015

113. Monash University's Data Science Summit, Port Douglas, Australia, August 2015

112. ACM SIGKDD, Panel on "Data Driven Science", Sydney Australia, August 2015

111. ACM SIGKDD Workshop on Outlier Definition, Detection, and Description (ODDx3), Panel on "What is an anomaly?", Sydney, Australia, August 2015

110. "Incomplete Networks" Session, Algorithms for Threat Detection Program Meeting, National Science Foundation, Arlington, VA, July 2015

109. CINET Workshop, Virginia Tech, Blacksburg, Virginia, July 2015

108. International Conference on Network Science (NetSci), Satellite on Arts, Humanities, and Complex Networks, Panel on "Scientific Cultural Analysis", Zaragoza, Spain, June 2015

107. International Conference on Network Science (NetSci), Satellite on Higher-Order Models in Network Science (HONS), Zaragoza, Spain, June 2015

106. SIAM SDM Workshop on Mining Networks and Graphs: A Big Data Analytic Challenge, Panel on "Future Challenges in Mining Large Networks", Vancouver, Canada, April 2015

105. University of California, Santa Barbara, Department of Computer Science, January 2015

104. University of California, Santa Cruz, Department of Computer Science, January 2015

Year 2014

103. NYC Women in Machine Learning and Data Science Meetup, New York, NY, December 2014

102. The 9th Annual Workshop for Women in Machine Learning (WiML), Montreal, Canada, December 2014

101. Northeastern University, College of Computer and Information Science, Boston, MA, December 2014

100. MIT Lincoln Laboratory's Graph Exploitation Symposium (GraphEx), Dedham, MA, August 2014

99. Yahoo!, Sunnyvale, CA, August 2014

98. Yahoo! NYC, New York, NY August 2014

97. University of Antwerp, Antwerp, Belgium, July 2014

96. University of Leuven, Leuven, Belgium, July 2014

95. International Conference on Network Science (NetSci), Berkeley, CA, June 2014

94. Charles River Workshop on Private Analysis of Social Networks, Boston University, Boston, MA, May 2014

93. SIAM SDM Workshop on Mining Networks and Graphs: A Big Data Analytics Challenge (MNG 2014), Philadelphia, PA, April 2014

92. Spring Workshop on Mining and Learning (SMiLe), Oostende, Belgium, March 2014

91. Rutgers DIMACS/RUCIA Workshop on Information Assurance in the Era of Big Data, February 2014

90. University of California Davis, Department of Computer Science, Davis, CA, January 2014

89. Lawrence Livermore National Laboratory, Center for Applied Scientific Computing, Livermore, CA, January 2014

88. Facebook, Menlo Park, January 2014

87. UCLA IPAM, Workshop on Mathematics of Social Learning, January 2014

Year 2013

86. University of Notre Dame, Department of Computer Science and Engineering, Notre Dame, IN, December 2013

85. Rutgers DIMACS, Workshop on Statistical Analysis of Network Dynamics and Interactions, November 2013

84. ACM SIGKDD Workshop on Mining and Learning from Graphs (MLG 2013), August 2013

83. Girls Inc. of New York City, Brooklyn, NY, July 2013

82. University of Illinois at Chicago, Department of Computer Science, Chicago, IL, May 2013

81. Northwestern University, Institute on Complex Systems, Evanston, IL, May 2013

80. Georgia Institute of Technology, School of Computational Science & Engineering, Atlanta, GA, April 2013

79. Stevens Institute of Technology, Computer Science Department, April 2013

78. Sarnoff Research, Princeton, NJ, March 2013

77. Colloquium, Department of Computer Science, SUNY Stony Brook, Stony Brook, NY, February 2013

76. AT&T Research, Florham Park NJ, February 2013

75. Google, New York, NY, January 2013

Year 2012

74. IEEE ICDM, Big Data Panel, Brussels, Belgium, December 2012

73. NYU Stern Business School, TUILES (Tuesday Informal Lunchtime Seminars), New York, NY, November 2012

72. Rutgers University Center for Cognitive Science (RuCCS), "What Is Cognitive Science" Talk Series, November 2012

71. Synergic Investigations in Network Science (SINS), Bertinoro International Center for Informatics, Bertinoro, Italy, October 2012

70. Current Challenges in Computing (CCubed) Conference: Network Science, Napa, CA, August 2012 (invited poster)

69. Lawrence Livermore National Laboratory, Network Security Innovation Center, Livermore, CA, April 2012

68. Lawrence Livermore National Laboratory, Center for Applied Scientific Computing, Livermore, CA, April 2012

67. Northern New Jersey Junior Science and Humanities Symposium, March 2012

Year 2011

66. Northeastern University, The Barabási Lab, Boston, MA, December 2011

65. MIT, CSAIL, Cambridge, MA, December 2011

64. IBM Watson, Hawthorne, NY, November 2011

63. Colloquium, Department of Computer Science & Engineering, Lehigh University, Bethlehem, PA, November 2011

62. UCLA IPAM, Workshop on Networks and Network Analysis for the Humanities, Los Angeles, CA, October 2011

61. Jive Software, Palo Alto, CA, August 2011

60. Lawrence Livermore National Laboratory, Center for Applied Scientific Computing, Livermore, CA, August 2011

59. The 3rd International Workshop on Social Network Analysis (ARS), Naples, Italy, June 2011

58. NSF-sponsored Workshop on Social-Computational Systems (SoCS), Minneapolis, MN, June 2011

57. Jozef Stefan Institute, Ljubljana, Slovenia, June 2011

56. Ludwig-Maximilians-Universität München, Munich, Germany, June 2011

55. D.E. Shaw Research & Development, New York, NY, May 2011

54. TEDx Rutgers, Piscataway, NJ, April 2011

53. Rutgers University, Perceptual Science Talk Series, Piscataway, NJ, April 2011

52. IEEE Computer Society – North Jersey Section, Data Mining Seminar, Teaneck, NJ, April 2011

51. Rutgers University, Department of Computer Science, Open House, Piscataway, NJ, April 2011

50. NYU, Courant Institute, Machine Learning Seminar, New York, NY, April 2011

49. Princeton University, Machine Learning Seminar, Princeton, NJ, March 2011

48. High Tech Crimes Investigation Association (HTICA) – Northeast Chapter, New York, NY, March 2011

Year 2010 and before

47. Rutgers University, Yahoo!-sponsored Machine Learning Seminar Series, Piscataway, NJ, November 2010

46. Rutgers University, DIMACS, Interdisciplinary Seminar Series, Piscataway, NJ, October 2010

45. Telcorida, Piscataway, NJ, October 2010

44. UCLA IPAM, NEH-sponsored Workshop on Networks and Network Analysis for the Humanities, Los Angeles, CA, August 2010

43. ACM SIGKDD Workshop on Large-Scale Data Mining: Theory and Applications, Washington, DC, July 2010

42. USA/Canada Mathcamp, June 2010

41. Google, Mountain View, CA, March 2010

40. University of California at Merced, Electrical Engineering and Computer Science Technical Seminar Series, Merced, CA, December 2009

39. Lawrence Berkeley National Laboratory, Data Intensive Systems Group, Berkeley, CA, December 2009

38. Rutgers University, DHS Fellows Seminar Series, Piscataway, NJ, September 2009

37. Colloquium, Department of Computer Science, Rutgers University, Piscataway, NJ, April 2009

36. Informatics Colloquium, School of Informatics, Indiana University, Bloomington, IN, February 2009

35. University of Rochester, Computer Science Department, Department Seminar Series, Rochester, NY, December 2008

34. University of Wisconsin-Madison, Computer Sciences Department, AI Seminar, Madison, WI, September 2008

33. Yahoo!, Santa Clara, CA, August 2008

32. The 2008 SIAM Annual Meeting, Mini-symposium on Toward Real-Time Analysis of Networks, San Diego, CA, July 2008

31. University of Southern California, Information Sciences Institute, AI Seminar, Marina del Ray, CA, December 2007

30. UCLA IPAM, Program on Mathematics of Knowledge and Search Engines, Workshop III: Social Data Mining and Knowledge Building, Los Angeles, CA, November 2007

29. The 15th Bay Area Discrete Math Day (BADMath Day XV), Googleplex, Mountain View, CA, October 2007

28. UCLA IPAM, Workshop on NSF Cyber-Enabled Discovery and Innovation Program: Knowledge Extraction, Los Angeles, CA, October 2007

27. UCLA IPAM, Program on Mathematics of Knowledge and Search Engines, Workshop I: Dynamic Searches and Knowledge Building, Los Angeles, CA, October 2007

26. Rutgers University, DIMACS/DyDAn Workshop on Computational Methods for Dynamic Interaction Networks, Piscataway, NJ, September 2007

25. Army Research Office (ARO) Workshop on Abductive Reasoning, College Park, MD, August 2007

24. University of Maryland, College Park, Department of Computer Science, LINQS Seminar, College Park, MD, August 2007

23. University of Illinois at Urbana-Champaign, Multimodal Information Access and Synthesis Center (MIAS), Data Sciences Summer Institute, Urbana-Champaign, IL, July 2007

22. Carnegie Mellon University, Database Seminar, Pittsburgh, PA, June 2007

21. Rutgers University, Institute for Discrete Sciences Workshop on Associating Semantics with Graphs, Piscataway, NJ, April 2007

20. Rutgers University, Center for Dynamic Data Analysis, DyDan Homeland Security Seminar, Piscataway, NJ, March 2007

19. Colloquium, Department of Mathematics, San Jose State University, San Jose, CA, March 2007

18. University of California at Davis, Center for Computational Science and Engineering, Complex Systems Seminar, Davis, CA, November 2006

17. SRI International, Artificial Intelligence Center, Menlo Park, CA, November 2006

16. Siemens Medical, Malvern, PA, August 2006

15. University of San Francisco, Department of Computer Science, San Francisco, CA, November 2005

14. Los Alamos National Laboratory, ADVISE Machine Learning Workshop, Los Alamos, CA, August 2005

13. UCLA IPAM, Graduate Summer School on Intelligent Extraction of Information from Graphs and High-dimensional Data, July 2005

12. University of Texas at Austin, Department of Computer Sciences, Forum for Artificial Intelligence, Austin, TX, November 2004

11. SRI International, Artificial Intelligence Center, Menlo Park, CA, October 2004

10. Colloquium, Department of Computer Science, University of California at Davis, Davis, CA, November 2003

9. Lawrence Livermore National Laboratory, Institute for Scientific Computing Research, Summer Lecture Series, Livermore, CA, July 2003

8. Stanford University, Center for the Study of Language and Information (CSLI), Seminar on Computational Learning and Adaptation, Stanford, CA, March 2003

7. California Institute of Technology, Computer Science Department, Pasadena, CA, January 2002

6. Research, Careers, and Computer Science: A Maryland Symposium, College Park, MD, November 2001

5. Lawrence Livermore National Laboratory, Livermore, CA, March 2001

4. IBM Watson Research Center, Yorktown, NY, March 2001

3. RAND Corporation, Santa Monica, CA, February 2001

2. MIT Lincoln Lab, Lexington, MA, February 2001

1. University of New Mexico, Department of Computer Science, Albuquerque, NM, April 2000

Teaching Experience & Tutorials

Curricula Development

- Northeastern University, created a 4-credit first-year honors inquiry seminar on "Algorithms that Affect Lives" (HONR 1310), http://eliassi.org/sp20-honr.html and http://eliassi.org/fa20-honr.html
- Northeastern University, helped create the Masters in Data Science Program, approved in 2016, https://www.ccis.northeastern.edu/program/data-science-ms/
- Northeastern University, helped create the Bachelors in Data Science Program, approved in 2016, https://www.ccis.northeastern.edu/program/data-science-bs/
- Rutgers University, created a 4-credit upper-level undergraduate course on "Introduction to Data Science" (CS 439), approved in 2014, https://www.cs.rutgers.edu/course/introduction-to-data-science

Teaching at Northeastern University

- Fall 2023: Machine Learning with Graphs (NETS 7332, 4 credits, graduate course)
- Spring 2022: Unsupervised Machine Learning and Data Mining (DS 5230, 4 credits, graduate course)
- Fall 2021: Introduction to Computer Science Research (CS 3950, 2 credits, undergraduate course)
- Fall 2021: Computer Science Research Seminar (CS 4950, 1 credit, undergraduate score)
- Spring 2021: Network Science Data 2: Machine Learning with Graphs (PHYS 7332, 4 credits, graduate course)
- Fall 2020: Algorithms that Affect Lives (HONR 1310, 4 credits, undergraduate course, part of Honors First Year Inquiry Seminar Series)
- Spring 2020: Algorithms that Affect Lives (HONR 1310, 4 credits, undergraduate course, part of Honors First Year Inquiry Seminar Series)
- Fall 2019: Data Mining Techniques (CS 6220, 4 credits, graduate course) cross-listed with Unsupervised Machine Learning and Data Mining (DS 5230, 4 credits, graduate course)
- Spring 2019: Data Mining Techniques (CS 6220, 4 credits, graduate course) cross-listed with Unsupervised Machine Learning and Data Mining (DS 5230, 4 credits, graduate course)
- Fall 2018: Data Mining Techniques (CS 6220, 4 credits, graduate course)
- Spring 2017: Data Mining Techniques (CS 6220, 4 credits, graduate course)
- Spring 2016: Network Science Research (NETS 8984, 2 credits, graduate course)

Teaching at Rutgers University

- Fall 2015: Pattern Recognition: Theory & Applications (CS 535, 3 credits, graduate course)
- Spring 2015: Introduction to Data Science (CS 443, 3 credits, undergraduate special topics course)
- Fall 2014: Topics in AI: Machine Learning with Large-scale Data (CS 598, 3 credits, graduate course)
- Spring 2014: Machine Learning (CS 536, 3 credits, graduate course)
- Fall 2013: Introduction to Data Science (CS 444, 3 credits, undergraduate special topics course)
- Spring 2013: Information in Networks (CS 672, 3 credits, graduate seminar)
- Spring 2012: Machine Learning (CS 536, 3 credits, graduate course)
- Fall 2011: Introduction to Network Science (CS 442, 4 credits, undergraduate special topics course)
- Spring 2011: Graph Mining and Network Analysis (CS 672, 3 credits, graduate seminar)
- Spring 2011: Light Seminar on Machine Learning (CS 500, 1 credit, graduate course)

Peer-reviewed Conference Tutorials

[T14] 2019 ACM SIKDD International Conference on Knowledge Discovery and Data Mining (KDD'19): Incompleteness in Networks: Biases, Skewed Results, and Some Solutions (with Rajmonda Caceres and Timothy LaRock[*]), Anchorage, AK, August 2019

[T13] 2019 SIAM International Conference on Data Mining (SDM'19): Graph Metric Spaces (with Jose Bento, Stratis Ioannidis, and Leo Torres[*]), Calgary, Canada, May 2019

[T12] 2018 ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD'18): Graph Metric Spaces (with Jose Bento, Stratis Ioannidis, and Leo Torres[*]), London, United Kingdom, August 2018

[T11] 2018 SIAM International Conference on Data Mining (SDM'18): Problems with Partially Observed (Incomplete) Networks: Biases, Skewed Results, and Solutions (with Sucheta Soundarajan[‡] and Sahely Bhadra[‡]), San Diego, CA, May 2018

[T10] 2016 IEEE International Conference on Data Mining (ICDM'16): Mining Smartphone and Mobility Data (with Spiros Papadimitriou, Katharina Morik, and Dimitrios Gunopulos), Barcelona, Spain, December 2016

[T9] 2016 International AAAI Conference on Web and Social Media (ICWSM'16): Mining Smartphone Mobility Data (with Spiros Papadimitriou), Cologne, Germany, May 2016

[T8] 2016 SIAM International Conference on Data Mining (SDM'16): Problems with Incomplete Networks: Biases, Skewed Results, and Solutions (with Sucheta Soundarajan[‡], Ali Pinar, and Brian Gallagher), Miami, FL, May 2016

[T7] 2016 ACM Conference on Web Search and Data Mining (WSDM'16): Understanding Offline Political Systems by Mining Online Political Data (with David Lazer and Oren Tsur), San Francisco, CA, February 2016

[T6] 2015 International World Wide Web Conference (WWW'15): Mining Mobility Data (with Spiros Papadimitriou), Florence, Italy, May 2015

[T5] 2014 IEEE International Conference on Data Mining (ICDM'14): Node and Graph Similarity: Theory and Applications (with Danai Koutra and Christos Faloutsos), Shenzhen, China, December 2014

[T4] 2014 SIAM International Conference on Data Mining (SDM'14): Node Similarity, Graph Similarity and Matching: Theory and Applications (with Danai Koutra and Christos Faloutsos), Philadelphia, PA, April 2014

[T3] 2013 European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD 2013): Discovering Roles and Anomalies in Graphs: Theory and Applications (with Christos Faloutsos), Prague, Czech Republic, September 2013

[T2] 2013 ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD'13): Mining Data from Mobile Devices: A Survey of Smart Sensing and Analytics (with Spiros Papadimitriou), Chicago, IL, August 2013

[T1] 2012 SIAM International Conference on Data Mining (SDM'12): Discovering Roles and Anomalies in Graphs: Theory and Applications (with Christos Faloutsos), Anaheim, CA, April 2012

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[*] Graduate student and direct mentee at the time work was performed.
[‡] Postdoc and direct mentee at the time work was performed.

Advising & Mentoring

Past Postdoctoral (PD) Scholars (in alphabetical order)

- Senjuti Basu Roy (Ph.D., University of Texas at Arlington)
    - First employment after PD: Assistant Professor (tenure track) at Univ. of Washington, Tacoma
- Michele Berlingerio (Ph.D., IMT Lucca, Italy)
    - First employment after PD: Research Scientist at IBM Research & Development, Dublin, Ireland
- Sahely Bhadra (PhD, Indian Institute of Science)
    - First employment after PD: Assistant Professor (tenure track) at Indian Institute of Technology Palakkad
- William Fleisher (Ph.D., Rutgers University)
    - First employment after PD: Assistant Professor (tenure track) at Georgetown University
- Rogini Runghen (Ph.D., University of Canterbury, New Zealand)
    - First employment after PD: Postdoctoral Scholar (tenure track) at University of Connecticut
- Sucheta Soundarajan (Ph.D., Cornell University)
    - First employment after PD: Assistant Professor (tenure track) at Syracuse University
- Mengxiao Zhu (Ph.D., Northwestern University; co-mentors at Rutgers University: Marya Doerfel & Matthew Weber)
    - First employment after PD: Research Scientist at ETS Research, Princeton, NJ

Ph.D. Students at Northeastern University (in alphabetical order)

- Ayan Chatterjee (since 2022; co-mentored with Albert-László Barabási)
- Samantha Dies (since 2022)
- Wan He (since 2022, co-mentored with Samuel Scarpino)
- Timothy LaRock (2016-2021; first employment: University of Oxford)
- David Liu (since 2020)
- Benjamin Miller (2018-2023; first employment: MIT Lincoln Laboratory)
- Zohair Shafi (since 2021)
- Leonardo Torres (2016-2021, first employment: Max Planck Institute for Mathematics in the Sciences)
- Xindi Wang (2017-2021; co-mentored with Albert-László Barabási, first employment: Amazon)

Ph.D. Students at Rutgers University (in alphabetical order)

- Priya Govindan (2010-2016; first employment: Walmart Labs)
- Mangesh Gupte (2011; first employment: Google)
- Xiaoye Han (2012; first employment: Microsoft)
- Blerta Lindqvist (2015-2016)
- Matthew Muscari (2011-2012; first employment: a startup)
- Chetan Tonde (2011; first employment: Amazon)
- Chaolun Xia (2011-2012)
- Chuxu Zhang (2013-2016; moved to University of Notre Dame)

Other Ph.D. Thesis and Habilitation Committees

- Matt Piekenbrock (Northeastern University, 2024)
- Xie He (Dartmouth College, 2024)
- Grace Fan (Northeastern University, 2024)
- Sara Taheri (Northeastern University, 2023)
- Talha Ongun (Northeastern University, 2023)
- Kimia Shayesteh Fard (Northeastern University, 2023)
- Avijit Ghosh (Northeastern University, 2023)
- Alesia Chernikova (Northeastern University, 2022)
- Ryan Muther (Northeastern University, 2022)
- Claudia Flores (Northeastern University, 2022)
- Ronald Robertson (Northeastern University, 2021)
- Xindi Wang (Northeastern University, 2021)
- Dat huynh (Northeastern University, 2021)
- Luka Petrovic (University of Zurich, 2021)
- Liwen Hou (Northeastern University, 2021)
- Abdulkadir Çelikkanat (Paris-Saclay University, 2021)
- Brennan Klein (Northeastern University, 2020)
- Dr. Márton Karsai (Ecole Normale Supérieure de Lyon, 2019) [habilitation committee]
- Ghazaleh Beigi (Arizona State University, 2018)
- Charalampos Mavroforakis (Boston University, 2018)
- Ludvig Bohlin (Umea University, Sweden, 2018)
- Shaobin Xu (Northeastern University, 2018)
- Xiaofeng Yang (Northeastern University, 2018)
- Miguel Araújo (Carenegie Mellon University and Universidade do Porto, 2017)
- Saber Shokat Fadaee (Northeastern University, 2017)
- Marija Stankova (University of Antwerp, Belgium, 2016)
- Véronique Van Vlasselaer (Katholieke Universiteit Leuven, Belgium, 2015)
- Vukosi Marivate (Rutgers University, 2014)
- Monica Babes-Vroman (Rutgers University, 2014)
- Ishani Chakraborty (Rutgers University 2013)
- Gayatree Ganu (Rutgers University, 2013)
- Fei Yang (Rutgers University, 2013)
- Xinyi Cui (Rutgers University, 2013)
- Nicholas Michael (Rutgers University, 2011)
- Shaoting Zhang (Rutgers University, 2011)
- Junzhou Huang (Rutgers University, 2011)
- Zeqian Shen (University of California Davis, 2009)

Ph.D. Interns at Lawrence Livermore National Laboratory (2001-2009)

- Christopher L. Baker (Ph.D., MIT)
- Aria Haghighi (Ph.D., University of California Berkeley)
- Marios Iliofotou (Ph.D., University of California Riverside)
- Kurt T. Miller (Ph.D., University of California Berkeley)
- Tom Ouyang (Ph.D., MIT)
- David L. Roberts (Ph.D., Georgia Institute of Technology)
- Brian Thompson (Ph.D., Rutgers University)

Masters Students

- Northeastern University, Khoury College of Computer Sciences
    - Jingyi Xu (graduated 2021)
    - Aida Sharif Rohani (MS Thesis Committee, 2021)
    - Jessica Gonzalez (2020)
    - Timothy Sakharov (2020; first employment: Scientific Systems)
    - Alexander Gomez (2020; first employment: Eversource Energy)
- Rutgers University
    - Xiao Lin (graduated 2015; first employment: Snapchat)
    - Long T. Le (graduated 2014; continued Ph.D. at Rutgers School of Communication and Information)
    - Nishchal Devanur (graduated 2011, co-advised with James Abello; first employment: Credit Suisse)

Undergraduate Students

- Northeastern University, Khoury College of Computer Sciences
    - Maya De Los Santos (2021)
    - Timothy Sakharov (2016-2017)
    - Mustafa Çumurcu (2018-2020; first employment: Google)
- Rutgers School of Arts & Sciences (SAS) Honors Program (chronologically ordered)
    - Jason Krasnits (2013-2014)
    - Timothy Elbert (2013-2014)
    - Arpit Shah (2013-2014)
    - Snigdha Paka (2013-2014)
    - Evan Amster (2013-2014)
    - Vaibhav Sharma (2012-2013)
    - Brandon Diaz-Abreu (2013-2014)
    - Mita Joshi (2011-2012)
- NSF-sponsored Research Experience for Undergraduates (REU), Rutgers University (2011)
    - Florentina Ferati (Texas Lutheran Univ.)
    - Jack Murtagh (Tufts University)
- Independent Study, Rutgers University
    - Hilal Genc (2011)
- UCLA IPAM Research in Industrial Partnership (RIPS) Program (2006)
    - Marcelo Alvisio (MIT)
    - Vyacheslav Kungurtsev (Duke)
    - Christine Kim (Bryn Mawr University)
    - Cory Nathe (Augsburg College)

Professional Activities

Advisory Boards

- The Mills Institute at Northeastern University, 2024-present
- PHILTECH: Research Center for the Philosophy of Technology, University of Milan, Milan, Italy, 2023-present
- Munich Center for Machine Learning, Munich, Germany, 2023-present
- Women in Network Science, 2021-present

Scientific Boards

- Scientific Steering Committee, Santa Fe Institute, Santa Fe, NM, 2022-present
- Scientific Advisory Board, ISI Foundation, Turin, Italy, 2020-2023

Editorial Boards

- Action Editor, Journal of Machine Learning Research (JMLR), 2019-2023
- Editorial Board Member, SIAM Review (SIREV), 2019-2021
- Associate Editor, IEEE Transactions on Knowledge and Data Engineering (TKDE), 2015-2017
- Editorial Board Member and Section Editor for Graph Mining, Springer Encyclopedia of Machine Learning and Data Science, 2014-2023
- Action Editor, Data Mining and Knowledge Discovery (DMKD), Springer, 2009-2019

Book Reviews

- Princeton University Press

Journal Referee

- Science
- Nature
- Nature Human Behavior
- Proceedings of the National Academy of Sciences (PNAS)
- Journal of Moral Philosophy
- Journal of Statistical Mechanics: Theory and Experiment (JSTAT)
- Machine Learning Journal (MLJ)
- Journal of Machine Learning Research (JMLR)
- Data Mining and Knowledge Discovery (DMKD)
- ACM Transactions on Knowledge Discovery from Data (TKDD)
- Network Science
- Proceedings of the Royal Society A
- Science Advances
- SIAM Journal on Mathematics of Data Science (SIMODS)
- SIAM Journal on Optimization
- Knowledge and Information Systems (KAIS)
- IEEE Transactions on Systems, Man, and Cybernetics Part C: Applications & Reviews
- Journal of Applied Logic
- Journal of Information Science and Engineering

- International Journal of Computers and their Applications, Special Issue on Intelligent Agents

Conference, Symposium, and Workshop Program Committees Member

Data Mining

- ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD): 2004, 2005, 2007, 2010, 2011, 2012, 2013, 2014 (Senior PC), 2015 (Senior PC), 2016 (Senior PC), 2017 (Program Co-chair). 2018 (Best Paper Committee), 2019 (Senior PC), 2019 (Best Paper Committee Chair), 2020 (SIGKDD and Test of Time Awards Committee), 2021 (SIGKDD Dissertation Award Committee Chair)

- IEEE International Conference on Data Mining (ICDM): 2003, 2004, 2006, 2007, 2008, 2009, 2010 (Vice PC Chair), 2011, 2012, 2013, 2014 (Area Chair), 2016 (Awards Committee), 2019 (Awards Committee)

- SIAM International Conference on Data Mining (SDM): 2008, 2011, 2012, 2013 (Senior PC), 2015 (Senior PC), 2016 (Senior PC), 2019 (Senior PC)

- European Conference on Machine Learning (ECML) / European Conference on Principles and Practice of Knowledge Discovery in Databases (PKDD): 2006, 2007, 2008, 2011, 2012 (Area Chair), 2013, 2020 (Test of Time Award Committee)

- Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD): 2007, 2009, 2010

- ACM International Conference on Information and Knowledge Management (CIKM): 2013, 2015 (Senior PC)

- ACM Symposium for Applied Computing (SAC): 2006 (Data Mining Track), 2007 (Data Mining Track), 2008 (Data Mining Track)

- IEEE International Conference on Big Data (BigData): 2013

- IEEE International Conference on Data Science and Advanced Analytics (DSAA): 2018 (PC Co-chair)

Machine Learning

- International Conference on Machine Learning (ICML): 2008, 2009, 2010, 2011, 2012, 2013, 2016

- Neural Information Processing Systems (NeurIPS; formerly known as NIPS): 2011 (Reviewer), 2012 (Area Chair), 2013 (Reviewer), 2016 (Reviewer), 2020 (Reviewer)

- International Conference on Learning Representations (ICLR): 2018, 2019, 2020

Artificial Intelligence

- National Conference on Artificial Intelligence (AAAI): 2006, 2007, 2008, 2012, 2013 (Senior PC)

- International Joint Conference on Artificial Intelligence (IJCAI): 2016 (Senior PC)

- ACM SIGAI Essay Contest: 2018

- AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society (AIES): 2021, 2022

- ACM Conference on Fairness, Accountability, and Transparency (FAccT): 2022

Network and Web Sciences

- International World Wide Web Conference (WWW): 2006 (Data Mining Track), 2012 (Social Network Track), 2013 (Web Mining Track)

- International Conference on Web Search and Data Mining (WSDM): 2013, 2016 (Best Paper Committee), 2018 (Best Paper Committee), 2020 (Best Paper Committee), 2024 (Best Paper Committee)

- International Conference on Network Science (NetSci): 2017 (Program Co-chair), 2018, 2019 (Senior PC), 2020 (Senior PC and Erdös-Rényi Prize Committee), 2021 (Erdös-Rényi Prize Committee)

- SIAM Workshop on Network Science (NS): 2019

- International Conference on Web Information Systems Engineering (WISE): 2005
- IADIS International Conference on WWW/Internet: 2004, 2005

Social Networks & Computing

- ACM Conference on Online Social Networks (COSN): 2013, 2015
- IEEE International Conference on Social Computing (SocialCom): 2009

Workshops, Symposia, Forums

- KDD Workshop on Interactive Data Exploration and Analytics (IDEA): 2013, 2014, 2015
- KDD Workshop on Outlier Definition, Detection, and Description (ODDx3): 2015
- NIPS Workshop on Machine Learning for Social Computing: 2010
- International Workshop on Mining and Learning with Graphs (MLG): 2010, 2011, 2012, 2013
- SIGMOD/PODS Workshop on Dynamic Networks Management and Mining (DyNetMM): 2013
- WWW Workshop on Big Graph Mining (BGM), 2014
- ACM SIGKDD Workshop on Large-scale Data Mining: Theory and Applications (LDMTA): 2011
- ACM SIGKDD Workshop on Social Network Mining and Analysis (SNA-KDD): 2007, 2008, 2009, 2010, 2011
- ACM SIGKDD Workshop on Social Media Analytics (SoMA): 2010
- CIKM Workshop on Complex Networks in Information & Knowledge Management (CNIKM): 2009
- IEEE ICDM Workshop on Analysis of Dynamic Networks (ICDM-ADN): 2008
- IEEE ICDM Workshop on Mining Graphs and Complex Structures (MGCS): 2007
- IJCAI Workshop on Link Analysis in Heterogeneous Information Networks: 2011
- ECML/PKDD Workshop on Finding Patterns of Human Behaviors in Network and Mobility Data (NEMO): 2011
- SIAM SDM Workshop Analysis of Dynamic Networks (SDM-ADN): 2009
- SIAM SDM Workshop on Networks (SDM-Networks): 2014, 2015
- AAAI Fall Symposium on Capturing and Using Patterns for Evidence Detection: 2006
- IEEE GlobeCom Workshop on Future User Centric Experiences: 2010
- IEEE International Conference on Data Mining (ICDM), PhD Forum: 2011
- Workshop on Parallel and Distributed Computing for Machine Learning and Inference Problems (ParLearning), in conjunction with the IEEE International Parallel & Distributed Symposium (IPDPS): 2012

Organizing Committees Member

Program Chair

- The 6th International Conference on Computational Social Science (IC2S2), July 2020
- The 5th International Conference on Data Science and Advanced Analytics (DSAA), Research Track, October 2018
- The 23rd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), Research Track, August 2017
- The 2017 International School and Conference on Network Science (NetSci'17), June 2017

Workshops Chair

- The 21st ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), August 2015

- The 2014 SIAM International Conference on Data Mining (SDM), April 2014

Tutorials Chair

- Tutorial Co-chair, The 16th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), July 2010

Workshop / Satellite Organizer

- Santa Fe Institute Workshop on Can Algorithms Bend the Arc Toward Justice?, March 2022 (virtual)
- AAAI'22 Workshop on Robust Artificial Intelligence System Assurance (RAISA), February 2022 (virtual)
- Dagstuhl Workshop on Higher-Order Graph Models: From Theoretical Foundations to Machine Learning, August 2021 (virtual)
- Mini-symposium on "Latest Advances in Spectral Linear Algebra in Network Science", The 2021 SIAM Conference on Applied Linear Algebra (LA), May 2021
- NetSci'20 Satellite on Statistical Inference for Network Models, September 2020 (virtual)
- ACM WSDM'20 Workshop on Integrity in Social Networks and Media, February 2020.
- NetSci'19 Satellite on Statistical Inference for Network Models, May 2019
- NetSci'18 Satellite on Statistical Inference for Network Models, June 2018
- Sandia National Laboratories, "Workshop on Incomplete Networked Data", March 2016
- The 2011 IEEE ICDM Workshop on Data Mining Technologies for Computational Collective Intelligence (DMCCI), December 2011
- NSF-sponsored Workshop on "Algorithms in the Field", May 2011

Panel Chair

- Panel Co-chair, The 26th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), August 2020

Miscellaneous

- Steering Committee, Workshop on Complex Networks in Banking and Finance, The Fields Institute for Research in Mathematical Sciences, University of Toronto, Canada, June 2024
- Steering Committee, SIGMOD Joint Workshop on Graph Data Management Experiences & Systems and Network Data Analytics (GRADES-NDA), 2020
- Co-organizer, New England Machine Learning Day (NEML), May 2018
- Co-organizer, UCLA IPAM Program on "Culture Analytics in the Age of Big Data", Spring 2016
- Co-organizer, Yahoo!-Rutgers Machine Learning Seminar, Academic Year 2010-11
- Co-organizer, UCLA IPAM Program on "Networks and Network Analysis for the Humanities: An NEH Institute for Advanced Topics in Digital Humanities", August 2010
- Co-organizer, The 2009 SIAM Conference on Computational Science and Engineering (CSE), March 2009
- Chair, Mini-symposium on "Toward Real-Time Analysis of Networks", The 2008 SIAM Annual Meeting (AN), July 2008
- Co-chair, New Investigators Track, The Grace Hopper Celebration for Women in Computing, 2007
- Proceedings Chair, The 12th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), August 2006
- Organizer, Institute for Terascale Simulation (ITS) Lecture Series (sponsored by NNSA's Advanced Simulation and Computing Program), 2006, 2007, 2008, 2009

- Co-organizer, UCLA IPAM Graduate Summer School on *Intelligent Extraction of Information from Graphs and High-dimensional Data*, Summer 2005
- Co-organizer, DHS Data Sciences Workshop, Fall 2004

Grant Panel Member and Reviewer

- Army Research Office (ARO), 2015, 2016, 2017, 2018
- Air Force Office of Scientific Research (AFOSR), 2007 and 2009
- DOE/NNSA Proliferation Detection Program, 2006 and 2007
- Lawrence Livermore National Laboratory, University Collaborative Research Program, 2003
- NSF CISE Ad-hoc Reviewer, Fall 2007, Spring 2008, and Fall 2008
- NSF Computing Innovation Fellows, 2020
- NSF Review Panels, Spring 2003, Winter 2005, Spring 2005, Fall 2007, Spring 2008, Spring 2012, Fall 2012, Fall 2013, Fall 2015, Fall 2019, Fall 2020, Winter 2021, Spring 2021
- ONR/DHS Institute for Discrete Sciences, University Affiliate Centers, 2006
- Swiss National Science Foundation, 2013, 2019

Academic Committees Member

- Full Professor Committee, Khoury College of Computer Sciences, Northeastern University, 2020-present
- Tenure Committee, Khoury College of Computer Sciences, Northeastern University, 2016-present
- Tenure-Track/Tenured Merit Committee, Khoury College of Computer Sciences, Northeastern University, 2021-22
- Dean Search Committee, Khoury College of Computer Sciences, Northeastern University, 2021-22
- Distinguished Lecture Committee, Khoury College of Computer Sciences, Northeastern University, 2021-22
- Research and Awards Committee, Khoury College of Computer Sciences, Northeastern University, 2021-22
- Tenure Committee, Khoury College of Computer Sciences, Northeastern University, 2020-21 (Chair)
- Curriculum Committee, Network Science Institute, Northeastern University, 2020-21
- Distinguished Lecture Committee, Khoury College of Computer Sciences, Northeastern University, 2019-20
- Research and Awards Committee, Khoury College of Computer Sciences, Northeastern University, 2019-20
- Faculty Advisory Committee, Global Resilience Institute, Northeastern University, 2018-19
- Hiring Committee, Network Science Institute, Northeastern University, Spring 2019
- Curriculum Committee, Network Science Institute, Northeastern University, 2018-19
- Distinguished Lecture Committee, College of Computer and Information Science, Northeastern University, 2018-19 (Chair)
- Research and Awards Committee, College of Computer and Information Science, Northeastern University, 2018-19
- Hiring Committee, College of Computer and Information Science, Northeastern University, Spring 2016, Spring 2017 (Co-chair)
- Hiring Committee, Network Science Institute, Northeastern University, Spring 2017

- Appointments and Promotions Committee, School of Arts and Sciences, Rutgers University, Spring 2015-Fall 2016
- PhD Admission Committee, Department of Computer Science, Rutgers University, 2010-11, 2011-12, 2012-13, 2013-14
- MS Admission Committee, Department of Computer Science, Rutgers University, 2010-11, 2011-12, 2012-13, 2013-14, 2014-15
- Faculty Mentor for the School of Arts and Sciences Honors Program, Rutgers University, 2011-12, 2012-13, 2013-14, 2014-15
- Rutgers Day Committee, Department of Computer Science, Rutgers University, 2011-12
- Admissions Committee, Computer Sciences Department, Univ. of Wisconsin-Madison, 1998-99

Miscellaneous

- Advisory Committee Member, Harvard Ash Center, Forum for AI and Democracy, 2024-present
- Founding Member, Department of Defense Responsible AI (RAI) Academic Council, 2023-present
- Member, GETTING-Plurality Research Network, 2023-present
- Invited participant, New America's Tech and AI Governance Workshop, February 2024
- Invited participant, ARO Computing Sciences Strategy Planning Workshop, March 2021 (virtual)
- Invited participant, Georgetown University Analysis & Visualization Meeting, March 2021 (virtual)
- Invited participant, Army Research Lab Workshop on AI for Autonomous Maneuver, September 2019
- Expert reviewer, The 14th Annual Lawrence Livermore National Laboratory Institutional Computing Grand Challenge Program, August 2019
- Invited participant, The Fall Workshop on Social Media and Inter-state Conflict, Harvard University, Cambridge, MA, November 2018
- Invited participant, The ARO Network Science Division's Strategy Planning Meeting, Adelphi, MD, October 2017
- Invited participant, The 3rd Opening Governance Workshop, Santa Fe, NM, November 2016
- Invited participant, The 2nd Opening Governance Workshop, Washington, DC, February 2016
- Invited participant, Future Directions in Network Sciences Workshop, Washington, DC, September 2016
- Invited participant, Workshop on Humanitarian Informatics, Georgetown University, Washington, DC, June 2015
- Invited participant, The Opening Governance Workshop, CASBS, Stanford University, May 2015
- Invited participant, DOE ASCR Cybersecurity Workshop, Rockville, MD, January 2015
- Invited participant, ARO Meeting on "Computing Sciences Strategy Planning", Adelphi, MD, October 2014
- Invited participant, NITRD Meeting on "Data to Knowledge to Action: Building New Partnerships", Washington, DC, November 2013
- Invited participant, DTRA Workshop on AI and Autonomous Systems, Arlington, VA, October 2011
- Invited participant, The 7th Annual Google Faculty Summit, New York City, NY, July 2011
- Invited participant, DOE Workshop for Cyber Security Research Needs for Open Science, Summer 2007
  - Lead author of Monitoring and Detection's Priority Research Direction on "Verification of Intended Use"

- Referee, The 22nd National Conference on Artificial Intelligence (AAAI), Member Abstracts, 2006
- Referee, New Generation of Data Mining Applications, Wiley Publishers, Fall 2003
- Referee, The 18th National Conference on Artificial Intelligence (AAAI), Student Abstract and Poster Program, 2002

Selected Outreach Activities

- Origins, August 2023, https://www.originspodcast.co
- Too Lazy to Read the Paper, July 2022, https://open.spotify.com/show/53LqqM9BmeRTxBCoULSh2E
- ODSC Lightning Interview, Risk Assessments for Machine Learning, March 2022, https://app.aiplus.training/courses/Risk-Assessments-for-Machine-Learning
- Legends of Data & AI Podcast, January 2022, https://www.audible.com/pd/Podcast/B08JJNZ58Z
- The TWIML AI Podcast, December 2021, https://twimlai.com/shows/
- Complexity Podcast, December 2021, https://complexity.simplecast.com
- Computing Up Podcast, April 2021, https://computingup.com
- Northeastern University, What's New Podcast, September 2018, https://whatsnewpodcast.org/makingartificialintelligencefairer/
- Breakfast at the Barracks, Rutgers iTV Studio, November 2011
- Panel Member, CRA-W's Career Mentoring Workshop at IJCAI'09, July 2009
- Organizer, LLNL Graph Analysis Working Group, Fall 2005 and Spring 2006
- Member, MIT Recruiting Team for LLNL Computation Directorate, 2005-06 and 2006-07
- Panel Member, CRA-W Career Mentoring Workshop, Spring 2005
- Panel Member, Grace Hopper Celebration of Women in Computing Conference, Fall 2004

Professional Societies

- Association for Advancement of Artificial Intelligence (AAAI)
- Association for Computing Machinery (ACM) and ACM Special Interest Group in Knowledge Discovery and Data Mining (SIGKDD)
- Complex Systems Society
- Institute of Electrical and Electronics Engineers (IEEE)
- Network Science Society (NetSci)
- Society for Industrial and Applied Mathematics (SIAM)

References

Available upon request.