

M. Amin Rahimian

Assistant Professor (Tenure Stream), Department of Industrial Engineering
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Research Interests: Social and economic networks, sociotechnical systems, social learning, collective intelligence, agent-based modeling, information integrity, simulation-based policy evaluation, health economics, public health operations, sustainability operations, distributed inference, differential privacy, causal inference, random structures and algorithms.

Education

University of Pennsylvania, Philadelphia, PA

2012 – 2017	Ph.D.	Electrical and Systems Engineering
2016	M.S.	Systems Engineering
2016	M.A.	Statistics, The Wharton School

Concordia University, Montréal, Québec, Canada

2011 – 2012	M.A.Sc.	Electrical and Computer Engineering
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Sharif University of Technology, Tehran, Iran

2005 – 2010	B.Sc.	Electrical Engineering (Control)
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Employment

University of Pittsburgh, Pittsburgh, PA

2020 –	Assistant Professor (Tenure Stream), Department of Industrial Engineering.
2023 –	Affiliated Faculty, Intelligent Systems Program (ISP).
2020 –	Affiliated Faculty, Institute for Cyber Law, Policy and Security (Pitt Cyber).

Massachusetts Institute of Technology, Cambridge, MA

2020 –	Digital Fellow, MIT Initiative on the Digital Economy (IDE), MIT Sloan School of Management.
2017 – 2020	Postdoctoral Associate, MIT Institute for Data, Systems, and Society & MIT Sloan School of Management.

Publications

Author key: **bold** = candidate; underline = student advisees; ¹PhD student mentored; ²Postdoc mentored; ³MS student mentored; ⁴Undergrad mentored; [†] Corresponding author.

Google Scholar profile: [t5TdzwAAAAJ](https://scholar.google.com/citations?user=t5TdzwAAAAJ)

h-index: 19

i10-index: 34

Total citations: 1,696

Source / Date: Google Scholar, accessed August 6, 2026.

Refereed Publications

Refereed Journal Papers

23. **Rahimian, M.A.[†]**, Colaresi, M.P. “Democratic Resilience and Sociotechnical Shocks.” *Computational and Mathematical Organization Theory*, 2025, 31(3), pp. 236–257. DOI: <https://doi.org/10.1007/s10588-025-09394-5>. [2 citations.]
22. Tiwari, K.¹, **Rahimian, M.A.[†]**, Roberts, M.S., Kumar, P., Buchanich, J.M. “Measuring Network Dynamics of Opioid Overdose Deaths in the United States.” *Scientific Reports*, 2024, 14, Article 29563. DOI: <https://doi.org/10.1038/s41598-024-80627-4>. [7 citations.]
21. Papachristou, M., **Rahimian, M.A.[†]** “Differentially Private Distributed Estimation and Learning.” *IIEE Transactions*, 2025, 57(7), pp. 756–772. DOI: <https://doi.org/10.1080/24725854.2024.2337068>. [6 citations.]
20. Burton, J.W., Almaatouq, A., **Rahimian, M.A.**, Hahn, U. “Algorithmically Mediating Communication to Enhance Collective Decision-Making in Online Social Networks.” *Collective Intelligence*, 2024, 3(2), Article 26339137241241307. DOI: <https://doi.org/10.1177/26339137241241307>. [9 citations.]
19. Eckles[†], D., Mossel, E., **Rahimian, M.A.[†]**, Sen, S. “Long Ties Accelerate Noisy Threshold-Based Contagions.” *Nature Human Behaviour*, 2024, 8(6), pp. 1057–1064. DOI: <https://doi.org/10.1038/s41562-024-01865-0>. [29 citations.]
18. Fang, F., Liu, P., Song, L., Wagner, P., Bartlett, D., Ma, L., Li, X., **Rahimian, M.A.**, Tseng, G., Randhawa, P., Xiao, K. “Diagnosis of T-cell-mediated kidney rejection by biopsy-based proteomic biomarkers and machine learning.” *Frontiers in Immunology*, 2023, 14, p. 1090373. DOI: <https://doi.org/10.3389/fimmu.2023.1090373>. [17 citations.]
17. Moehring, A., Collis, A., Garimella, K., **Rahimian, M.A.**, Aral, S., Eckles, D. “Providing normative information increases intentions to accept a COVID-19 vaccine.” *Nature Communications*, 2023, 14(1), p. 126. DOI: <https://doi.org/10.1038/s41467-022-35052-4>. [161 citations.]
16. Almaatouq, A.[†], **Rahimian, M.A.[†]**, Burton, J.W., Alhajri, A. “The distribution of initial estimates moderates the effect of social influence on the wisdom of the crowd.” *Scientific*

- Reports*, 2022, 12(1), p. 16546. DOI: <https://doi.org/10.1038/s41598-022-20551-7>. [22 citations.]
15. Collis, A., Garimella, K., Moehring, A., **Rahimian, M.A.**, Babalola, S., Gobat, N.H., Shattuck, D., Stollow, J., Aral, S., Eckles, D. "Global survey on COVID-19 beliefs, behaviours and norms." *Nature Human Behaviour*, 2022, 6(9), pp. 1310–1317. DOI: <https://doi.org/10.1038/s41562-022-01347-1>. [100 citations.]
 14. Eckles, D., Esfandiari, H., Mossel, E., **Rahimian, M.A.**[†] "Seeding with Costly Network Information." *Operations Research*, 2022, 70(4), pp. 2318–2348. DOI: <https://doi.org/10.1287/opre.2022.2290>. [34 citations.]
 13. Hązła, J., Jadbabaie, A., Mossel, E., **Rahimian, M.A.** "Bayesian decision making in groups is hard." *Operations Research*, 2021, 69(2), pp. 632–654. DOI: <https://doi.org/10.1287/opre.2020.2000>. [61 citations.]
 12. Holtz, D., Zhao, M., Benzell, S.G., Cao, C.Y., **Rahimian, M.A.**, Yang, J., Allen, J., Collis, A., Moehring, A., Sowrirajan, T., Ghosh, D., Zhang, Y., Dhillon, P.S., Nicolaides, C., Eckles, D., Aral, S. "Interdependence and the cost of uncoordinated responses to COVID-19." *Proceedings of the National Academy of Sciences*, 2020, 117(33), pp. 19837–19843. DOI: <https://doi.org/10.1073/pnas.2009522117>. [254 citations.]
 11. Preciado, V.M., **Rahimian, M.A.** "Moment-based spectral analysis of random graphs with given expected degrees." *IEEE Transactions on Network Science and Engineering*, 2017, 4(4), pp. 215–228. DOI: <https://doi.org/10.1109/TNSE.2017.2712064>. [14 citations.]
 10. **Rahimian, M.A.**, Jadbabaie, A. "Bayesian learning without recall." *IEEE Transactions on Signal and Information Processing over Networks*, 2017, 3(3), pp. 592–606. DOI: <https://doi.org/10.1109/TSIPN.2016.2631943>. [34 citations.]
 9. Tzoumas, V., **Rahimian, M.A.**, Pappas, G.J., Jadbabaie, A. "Minimal actuator placement with bounds on control effort." *IEEE Transactions on Control of Network Systems*, 2016, 3(1), pp. 67–78. DOI: <https://doi.org/10.1109/TCNS.2015.2444031>. [255 citations.]
 8. **Rahimian, M.A.**, Preciado, V.M. "Detection and isolation of failures in directed networks of LTI systems." *IEEE Transactions on Control of Network Systems*, 2015, 2(2), pp. 183–192. DOI: <https://doi.org/10.1109/TCNS.2014.2378873>. [29 citations.]
 7. **Rahimian, M.A.**, Ajorlou, A., Aghdam, A.G. "Digraphs with Distinguishable Dynamics Under the Multi-Agent Agreement Protocol." *Asian Journal of Control*, 2014, 16(5), pp. 1300–1311. DOI: <https://doi.org/10.1002/asjc.868>. [9 citations.]
 6. **Rahimian, M.A.**, Tavazoei, M.S. "Improving integral square error performance with implementable fractional-order PI controllers." *Optimal Control Applications and Methods*, 2014, 35(3), pp. 303–323. DOI: <https://doi.org/10.1002/oca.2069>. [47 citations.]
 5. **Rahimian, M.A.**, Aghdam, A.G. "Structural controllability of multi-agent networks: Robustness against simultaneous failures." *Automatica*, 2013, 49(11), pp. 3149–3157. DOI: <https://doi.org/10.1016/j.automatica.2013.06.023>. [99 citations.]

4. **Rahimian, M.A.**, Tavazoei, M.S. “Optimal tuning for fractional-order controllers: An integer-order approximating filter approach.” *Journal of Dynamic Systems, Measurement, and Control*, 2013, 135(2), p. 021017. DOI: <https://doi.org/10.1115/1.4023066>. [14 citations.]
3. **Rahimian, M.A.**, Tavazoei, M.S. “Constrained tuning of two-parameter controllers: a centroid approach.” *Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering*, 2012, 226(5), pp. 685–698. DOI: <https://doi.org/10.1177/0959651811427002>. [5 citations.]
2. **Rahimian, M.A.**, Tavazoei, M.S. “Application of stability region centroids in robust PI stabilization of a class of second-order systems.” *Transactions of the Institute of Measurement and Control*, 2012, 34(4), pp. 487–498. DOI: <https://doi.org/10.1177/0142331211400117>. [29 citations.]
1. **Rahimian, M.A.**, Tavazoei, M.S. “Stabilizing fractional-order PI and PD controllers: an integer-order implemented system approach.” *Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering*, 2010, 224(8), pp. 893–903. DOI: <https://doi.org/10.1243/09596518JSCE1043>. [26 citations.]

Papers in Fully Refereed Conference Proceedings

18. Liu, Y.¹, **Rahimian, M.A.**[†], Garimella, K.[†] “Structural Dynamics of Harmful Content Dissemination on WhatsApp.” Proc. International AAAI Conference on Web and Social Media (ICWSM 2026), May 27–29, 2026, Los Angeles, CA, Vol. 20, pp. 1505–1517, DOI: <https://doi.org/10.1609/icwsml.v20i1.42709>. [1 citation.]
17. **Rahimian, M.A.**[†], Panny, B.¹, Joshi, J.B.D. “Privacy at Scale in Networked Healthcare.” Proc. IEEE 7th International Conference on Trust, Privacy and Security in Intelligent Systems, and Applications (TPS-ISA), November 11, 2025, pp. 551–560. IEEE, DOI: <https://doi.org/10.1109/TPS-ISA67132.2025.00067>.
16. Liu, Y.¹, **Rahimian, M.A.**[†] “Differentially Private Sequential Learning.” Proc. Sixth Annual Symposium on Foundations of Responsible Computing (FORC 2025), June 4–6, 2025, LIPIcs Vol. 329, pp. 18:1–18:6, DOI: <https://doi.org/10.4230/LIPIcs.FORC.2025.18>.
15. Ahmed, A.A.¹, **Rahimian, M.A.**[†], Roberts, M.S. “Optimized Model Selection for Estimating Treatment Effects from Costly Simulations of the US Opioid Epidemic.” Proc. Annual Modeling and Simulation Conference (ANNSIM), May 20–23, 2024, pp. 1–13, DOI: <https://doi.org/10.23919/ANNSIM61499.2024.10732300>. [2 citations.]
14. Ahmed, A.A.¹, **Rahimian, M.A.**[†], Roberts, M.S. “Inferring Epidemic Dynamics Using Gaussian Process Emulation of Agent-based Simulations.” Proc. Winter Simulation Conference (WSC), December 10–13, 2023, San Antonio, TX, pp. 770–780, DOI: <https://doi.org/10.1109/WSC60868.2023.10408157>. [10 citations.]
13. Ahmed, A.A.¹, **Rahimian, M.A.**[†], Roberts, M.S. “Estimating Treatment Effects Using Costly Simulation Samples from a Population-Scale Model of Opioid Use Disorder.” Proc. IEEE International Conference on Biomedical and Health Informatics (BHI), October 15–18, 2023, Pittsburgh, PA, pp. 1–4 (oral, 12% acceptance rate), DOI: <https://doi.org/10.1109/BHI58575.2023.10313496>. [9 citations.]

12. **Rahimian, M.A.[†]**, Yu, F.Y., Hurtado, C. “Differentially Private Network Data Collection for Influence Maximization.” Proc. 2023 International Conference on Autonomous Agents and Multiagent Systems (AAMAS), May 29–June 2, 2023, London, UK, pp. 2795–2797, URL: <https://dl.acm.org/doi/10.5555/3545946.3599081>. [8 citations.]
11. Sassine, J., **Rahimian, M.A.**, Eckles, D. “Influence of repetition through limited recall.” Proc. International AAAI Conference on Web and Social Media (ICWSM), June 6–9, 2022, Vol. 16, pp. 863–872, DOI: <https://doi.org/10.1609/icwsml.v16i1.19341>. [3 citations.]
10. Burton, J.W., Almaatouq, A., **Rahimian, M.A.**, Hahn, U. “Rewiring the Wisdom of the Crowd.” Proc. Annual Meeting of the Cognitive Science Society, July 2021, Vol. 43, Seattle, WA, pp. 1802–1808, URL: <https://escholarship.org/uc/item/7tj34969>. [10 citations.]
9. H  zla, J., Jadbabaie, A., Mossel, E., **Rahimian, M.A.** “Reasoning in Bayesian opinion exchange networks is PSPACE-hard.” Conference on Learning Theory, June 2019, PMLR Vol. 99, pp. 1614–1648, URL: <https://proceedings.mlr.press/v99/hazla19a.html>. [20 citations.]
8. **Rahimian, M.A.**, Jadbabaie, A. “Group decision making and social learning.” IEEE 55th Conference on Decision and Control (CDC), December 2016, pp. 6783–6794, DOI: <https://doi.org/10.1109/CDC.2016.7799314>. [13 citations.]
7. Mahdavi, S., **Rahimian, M.A.** “Hindsight bias impedes learning.” Imperfect Decision Makers: Admitting Real-World Rationality (NIPS 2016 Workshop), Proc. Machine Learning Research, 2017, Vol. 58, pp. 111–127, URL: <https://proceedings.mlr.press/v58/mahdavi17a.html>. [11 citations.]
6. **Rahimian, M.A.**, Jadbabaie, A. “Distributed estimation and learning over heterogeneous networks.” 54th Annual Allerton Conference on Communication, Control, and Computing, September 2016, pp. 1314–1321. IEEE, DOI: <https://doi.org/10.1109/ALLERTON.2016.7852386>. [8 citations.]
5. **Rahimian, M.A.**, Jadbabaie, A. “Learning without recall from actions of neighbors.” American Control Conference (ACC), July 2016, pp. 1060–1065. IEEE, DOI: <https://doi.org/10.1109/ACC.2016.7525055>. [8 citations.]
4. Preciado, V.M., **Rahimian, M.A.** “Controllability Gramian spectra of random networks.” American Control Conference (ACC), July 2016, pp. 3874–3879. IEEE, DOI: <https://doi.org/10.1109/ACC.2016.7525517>. [14 citations.]
3. **Rahimian, M.A.**, Jadbabaie, A. “Learning without recall: A case for log-linear learning.” Proc. 5th IFAC Workshop on Estimation and Control of Networked Systems, IFAC-Papers-OnLine, 2015, 48(22), pp. 46–51, DOI: <https://doi.org/10.1016/j.ifacol.2015.10.305>. [19 citations.]
2. Shahrampour, S., **Rahimian, M.A.**, Jadbabaie, A. “Switching to learn.” American Control Conference (ACC), July 2015, pp. 2918–2923. IEEE, DOI: <https://doi.org/10.1109/ACC.2015.7171178>. [22 citations.]
1. Enyioha, C., **Rahimian, M.A.**, Pappas, G.J., Jadbabaie, A. “Controllability and fraction of

leaders in infinite networks.” 53rd IEEE Conference on Decision and Control, December 2014, pp. 1359–1364, DOI: <https://doi.org/10.1109/CDC.2014.7039571>. [19 citations.]

Papers Submitted for Peer Review (or in Revision)

10. Liu, Y.¹, **Rahimian, M.A.**, Sridhar, A., Gao, J. “Approximate Pufferfish Privacy: Chance-Constrained Mechanism Design for Correlated Data.”
9. Liu, Y.¹, **Rahimian, M.A.** “Mechanism Design for Privacy-Preserving Information Sharing in Oligopoly Competition.” arXiv: <https://arxiv.org/abs/2606.02348>.
8. Papachristou, M., **Rahimian, M.A.** “Differentially Private Distributed Inference for Multi-center Clinical Studies.” *INFORMS Journal on Data Science*, under review, arXiv: <https://arxiv.org/abs/2402.08156>. [4 citations.]
7. Tiwari, K.¹, **Rahimian, M.A.**[†], Charpignon, M.-L., Giabbanelli, P.J., Kumar, P. “Socio-Spatial Patterns of Suicide Mortality in the United States.” arXiv: <https://arxiv.org/abs/2603.02131>.
6. Ahmed, A.A.¹, **Rahimian, M.A.**[†], Chen, Q., Kumar, P. “Computationally Efficient Estimation of Localized Treatment Effects for Multi-Level, Multi-Component Interventions to Address the Opioid Crisis.” arXiv: <https://arxiv.org/abs/2601.03105>.
5. Papachristou, M., **Rahimian, M.A.**[†], Azadegan, A. “Structural Measures of Resilience for Supply Chains.” arXiv: <https://arxiv.org/abs/2303.12660>. [5 citations.]
4. He, P., Tang, L., **Rahimian, M.A.**, Joshi, J.B.D. “Conformal-DP: A Density-Aware Mechanism for Differential Privacy over Riemannian Manifolds via Conformal Transformation.” arXiv: <https://arxiv.org/abs/2504.20941>. [4 citations.]
3. Liu, Y.¹, **Rahimian, M.A.**[†], Yu, F.-Y. “Seeding with Differentially Private Network Information.” arXiv: <https://arxiv.org/abs/2305.16590>. [9 citations.]
2. Rutter, T.A., Liu, Y.¹, **Rahimian, M.A.**[†] “Differential Privacy for Network Connectedness Indices.” arXiv: <https://arxiv.org/abs/2603.15609>.
1. Potter, A., Zhang, Y., Hamilton, R., Abildayeva, A., Smith, B., Kahanavitage Don, K., Xu, R., Zarei, M., Rahman, M.³, Al Mahmood, A., Sovare, V., Tkachenko, Y., Shata, S., He, H., Raju, S., Lu, L.-T., Ovaith, S., Scheller-Wolf, A., **Rahimian, M.A.**, Wilkinson, C., Heath, G., Schoenung, J.M., Leu, P.W. “Recovering Intact, High-Quality Silicon Cells from End-of-Life Glass–Glass Solar Panels.”

Pre-Prints in the Pipeline

4. Liu, Y.¹, **Rahimian, M.A.** “Privacy-Aware Sequential Learning.” arXiv: <https://arxiv.org/abs/2502.19525>. (Extended abstract published at FORC 2025.)
3. Shamsaddini, V., **Rahimian, M.A.** “Extended Persistent Homology Distinguishes Simple and Complex Contagions with High Accuracy.” arXiv: <https://arxiv.org/abs/2505.00958>.

2. Li, Z., **Rahimian, M.A.**, Fang, L. “Social Learning Moderates the Tradeoffs between Efficiency, Stability, and Equity in Group Foraging.” arXiv: <https://arxiv.org/abs/2510.27683>.
1. Ahmed, A.A.¹, **Rahimian, M.A.**[†], Chen, Q., Kumar, P. “County-Level Heterogeneity in Opioid Harm Reduction and Treatment Effects: A Calibrated Markov Model.” medRxiv preprint, <https://doi.org/10.64898/2026.05.11.26352900>.

Non-Archival Contributions and Other Published Works

Invited Talks and Presentations

29. “From Data for Social Good to AI for Social Good: Integrating LLMs into the Classroom,” Pitt AI Scholar-Teacher Alliance (PASTA) monthly meeting, University of Pittsburgh, August 4, 2026. PASTA page: <https://pasta.pitt.edu/>.
28. “PV Recycling in Circular Economy,” Sustainable Operations track, session on Closed-Loop Supply Chains and Circular Economy Business Models (organizers: N. Uzunlar, CMU Tepper; S. Singh, UCL School of Management), POMS Annual Conference, May 9, 2026, Reno, NV.
27. “Sharing (Network) Data (Over Networks): Privacy Mechanisms and Sharing Incentives in Complex Network Environments,” Department of Statistics Seminar, University of Pittsburgh, February 16, 2026. Seminar page (Spring 2026 listing with abstract): <https://www.stat.pitt.edu/news/seminars>.
26. “Differential Privacy for Strategic Information Sharing and Learning” (tutorial), WINE 2025: 21st Conference on Web and Internet Economics, Rutgers University, December 8, 2025. Tutorial materials: <https://sites.google.com/pitt.edu/wine-2025-tutorial-yuxin>.
25. “Establishing a Career (in/with Social Impact),” EAAMO Conference Doctoral Consortium, University of Pittsburgh, November 5, 2025. Recording: <https://youtu.be/QjctGLd5EqA>.
24. “Privacy-Aware Sequential Learning,” Current Topics in Privacy Seminar, Carnegie Mellon University, September 23, 2025. Recording: <https://www.youtube.com/watch?v=zxglkcHdbHo>.
23. “Privacy-Preserving Sequential Learning,” Department of Systems Engineering and Operations Research, George Mason University, September 19, 2025.
22. “Critical Probabilities for Two-State Bootstrap Percolation,” Dynamics on Networks Conference, University of Pittsburgh Department of Mathematics, April 5–6, 2025 (organizers: J. Rubin and S. Streipert). Conference page: <https://www.mathematics.pitt.edu/event/dynamics-networks-conference>.
21. “Measuring Network Dynamics of Opioid Overdose Deaths in the United States,” INFORMS Annual Meeting (special session on data-driven modeling and analytics for opioid and substance use-related public health challenges), October 20, 2024 (presented by K. Tiwari).
20. “Distributed Estimation and Social Learning in Privacy-Critical Environments,” CMU Tepper OR Seminar, September 13, 2024.

19. “Long ties accelerate noisy threshold-based contagions,” Clubhouse Quantum Photonics club (virtual), May 15, 2024.
18. “Data Ethics Across the Disciplines: Ethical Tensions between Privacy and Access for Human-Subjects Data,” invited panelist, University of Pittsburgh Libraries, March 25, 2024, Pittsburgh, PA.
17. “Mutual Potentials of AI and OR in Supply Chain Systems,” AI/OR Workshop III, INFORMS and Computing Community Consortium, March 21–22, 2024, Washington, DC.
16. “Distributed Estimation and Social Learning in Privacy-Critical Environments,” ToC for Fairness Seminar Series, Simons Collaboration on the Theory of Algorithmic Fairness, March 13, 2024 (online). Seminar page: <https://toc4fairness.org/toc4fairness-seminar-amin-rahimian-2/>.
15. “Long ties accelerate noisy threshold-based contagions,” Graphs and Networks Seminar, Department of Mathematics, University of Pittsburgh, November 30, 2023.
14. “Information Aggregation and Distributed Learning in Privacy-Critical Environments,” Department of Management Science & Information Systems, Rutgers School of Business, November 2, 2023.
13. “Peer Influence and Spread of Opioid Epidemic: A Data-Driven Social Network Analysis Approach Using Facebook’s Social Connectedness Index,” INFORMS Annual Meeting, session on “Interpretable Models for Health & Treatment Management and Policy Design,” October 17, 2023, Phoenix, AZ.
12. “Seeding with Costly Network Information,” Digital Emotions (Goldenberg) Lab, Harvard University, September 27, 2023.
11. “Modeling Peer Influence for Public Health Decisions,” INFORMS Healthcare Conference, session on “Data-driven Decision-making in Response to a Pandemic,” July 28, 2023, Toronto.
10. “Mediating social influence and network effects for public health interventions,” Data Science / Computational Social Science Seminar Series, University of Michigan School of Information and MIDAS, April 28, 2023.
9. “Designing Network Interventions with Costly and Private Data,” ISP AI Forum, Intelligent Systems Program, University of Pittsburgh, February 10, 2023.
8. “Differentially Private Network Data Collection for Influence Maximization,” INFORMS Annual Meeting, session on “Network Optimization and Analysis,” October 17, 2022, Indianapolis, IN.
7. “Mediating Social Influence and Network Effects with Targeted Interventions, Descriptive Norms Messaging and Algorithmic Rewiring,” Rotman Young Scholar Seminar Series, Rotman School of Management, University of Toronto, July 4, 2022.
6. “Decision Support and Operation Design in Mission Critical Applications,” International Cost Estimating & Analysis Association Workshop, May 17, 2022, Pittsburgh, PA (invited visiting presenter).

5. “Mediating Social Influence and Network Effects with Targeted Interventions, Descriptive Norms Messaging and Algorithmic Rewiring,” DINS Speaker Series, Department of Informatics and Networked Systems, University of Pittsburgh, February 18, 2022. Seminar page: <https://www.moshi.pitt.edu/events/dr-amin-rahimian-mediating-social-influence-and-network-effects-targeted-interventions>.
4. “Welfare-Guided Seeding with Time-Constrained Data Collection,” Introduction to Network Science (invited lecture), University of Minnesota, December 9, 2021.
3. “Welfare-Guided Seeding with Time-Constrained Data Collection,” INFORMS Annual Meeting, session on “Social Media Analytics,” October 27, 2021, Anaheim, CA.
2. “Social Network Interventions for Faster and Further Diffusions,” Topics in Computational Social Science Seminar (invited lecture), MIT Sloan, April 2, 2020.
1. “Social Network Interventions for Faster and Further Diffusions,” Visiting Speaker Series, Network Science Institute, Northeastern University, February 27, 2020.

Presentations at Conferences without Associated Proceedings

38. Liu, Y.¹, **Rahimian, M.A.**, Lin, Y.-R., Garimella, K. “Tracing User Reliance on ChatGPT: A Longitudinal Analysis of Interaction Histories.” INFORMS Annual Meeting 2026, session on Large Language Models (LLMs) and Their Interaction with Social Systems, November 1–4, 2026, San Francisco, CA. Forthcoming oral presentation.
37. Spencer, O.⁴, **Rahimian, M.A.**, Streipert, S., Rubin, J. “Multi-State Bootstrap Percolation for Neuronal Networks.” International School and Conference on Network Science (NetSci 2026), June 1–5, 2026 (oral presentation), Boston, MA.
36. Liu, Y.¹, **Rahimian, M.A.** “Privacy-Preserving Information Sharing in Oligopoly Competitions.” Poster presentation, Seventh Annual Symposium on Foundations of Responsible Computing (FORC 2026), Harvard University, June 3–5, 2026, Allston, MA.
35. Liu, Y.¹, **Rahimian, M.A.** “Privacy-Preserving Information Sharing in Oligopoly Competitions.” Theory and Practice of Differential Privacy Workshop (TPDP 2026), Northeastern University, June 1–2, 2026, Boston, MA.
34. **Rahimian, M.A.**, Zhang, Y., Rahman, M., Scheller-Wolf, A., Leu, P., et al. “Closed-Loop Remanufacturing of Bifacial PV Modules via Intact Wafer Harvesting.” IISE Annual Conference & Expo, May 16–19, 2026, Arlington, TX.
33. Liu, Y.¹, **Rahimian, M.A.** “Privacy-Preserving Information Sharing in Oligopoly Competitions.” Conference on Network Science and Economics (NET ECON 2026), University of Miami, April 10–12, 2026, Miami, FL.
32. Liu, Y.¹, **Rahimian, M.A.** “Privacy-Preserving Information Sharing in Oligopoly Competitions.” 2026 IOE-ISyE-MS&E Rising Stars Workshop, University of Michigan, March 27, 2026, Ann Arbor, MI.
31. Rutter, T.A., Liu, Y.¹, **Rahimian, M.A.** “Differential Privacy for Network Connectedness Indices.” Privacy and Public Policy Conference (PPPC 2026), Georgetown University, Febru-

- ary 9, 2026, Washington, DC. Slides: https://privacypublicpolicy-conference.github.io/website/misc_files/2026_files/slides/S1-02-Slides-Rahimian-Updated.pdf.
30. Liu, Y.¹, **Rahimian, M.A.**, Papachristou, M. "Optimal Resolution of a Data Sharing Trilemma: Statistical Power, Sample Complexity, and Privacy Budget." Privacy and Public Policy Conference (PPPC 2026), Georgetown University, February 9–10, 2026, Washington, DC (poster). Abstract: https://privacypublicpolicy-conference.github.io/website/misc_files/2026_files/abstracts/P-02-Abstract-Liu-Updated.pdf.
 29. Liu, Y.¹, **Rahimian, M.A.** "Privacy-Aware Sequential Learning." 3rd Annual Philadelphia Operations and Technology Day, Villanova University, November 14, 2025, Villanova, PA. Schedule: <https://sites.google.com/view/2025philadelphiaotd/schedule>.
 28. Liu, Y.¹, **Rahimian, M.A.** "Privacy-Aware Sequential Learning." INFORMS Annual Meeting 2025, October 26–29, 2025, Atlanta, GA.
 27. Hu, B.³, **Rahimian, M.A.** "Privacy-Preserving Location Sharing for Crowd-Sourced Deliveries." INFORMS Annual Meeting 2025, October 26–28, 2025, Atlanta, GA.
 26. Liu, Y.¹, **Rahimian, M.A.** "Differentially Private Sequential Learning." NYC Privacy Day 2025, October 17, 2025, New York, NY.
 25. Papachristou, M., **Rahimian, M.A.** "Differentially Private Distributed Inference," Incentives for Collaborative Learning and Data Sharing Workshop, Toyota Technological Institute at Chicago, August 13–15, 2025 (Session 1 poster). Accepted presentations: <https://sites.google.com/ttic.edu/incentivesdatasharing/accepted-presentations>.
 24. Liu, Y.¹, **Rahimian, M.A.** "Differentially Private Sequential Learning." INFORMS Applied Probability Society Conference, Georgia Institute of Technology, June 30–July 3, 2025, Atlanta, GA.
 23. Liu, Y.¹, **Rahimian, M.A.**, Yu, F.-Y. "Seeding with Differentially Private Network Information." Poster presentation, Google Research Conference on Ads Privacy 2025, Google, June 4, 2025, Mountain View, CA.
 22. Rutter, T.A., **Rahimian, M.A.** "Differential Privacy for Connectedness Indices." Theory and Practice of Differential Privacy Workshop (TPDP 2025), Google, June 2–3, 2025, Mountain View, CA.
 21. Papachristou, M., **Rahimian, M.A.** "Differentially Private Distributed Inference." Theory and Practice of Differential Privacy Workshop (TPDP 2025), Google, June 2–3, 2025, Mountain View, CA.
 20. Hu, B.³, **Rahimian, M.A.** "Privacy-Preserving Location Sharing in Crowd-Sourced Shipping." IISE Annual Conference & Expo, June 1, 2025 (oral presentation), Atlanta, GA.
 19. Liu, Y.¹, **Rahimian, M.A.** "Differentially Private Sequential Learning." Conference on Network Science and Economics (NetSci-Econ 2025), Stanford Graduate School of Business, April 2025, Stanford, CA.

18. Liu, Y.¹, **Rahimian, M.A.**, Yu, F.-Y. "Seeding with Differentially Private Network Information." Conference on Network Science and Economics (NetSci-Econ 2025), Stanford Graduate School of Business, April 12, 2025, Stanford, CA.
17. Liu, Y.¹, **Rahimian, M.A.** "Differentially Private Sequential Learning." PPAI-25: The 6th AAAI Workshop on Privacy-Preserving Artificial Intelligence (PPAI-2025), March 3, 2025, Philadelphia, PA.
16. Liu, Y.¹, **Rahimian, M.A.**, Yu, F.-Y. "Seeding with Differentially Private Network Information." PPAI-25: The 6th AAAI Workshop on Privacy-Preserving Artificial Intelligence (PPAI-2025), March 3, 2025, Philadelphia, PA.
15. Hurtado, C., **Rahimian, M.A.** "Target Collection Using Efficient Reinforcement Learning Algorithms via Posterior Sampling in Environments with Hierarchical Target Distributions." INFORMS Annual Meeting 2024, October 22, 2024.
14. Liu, Y.¹, Garimella, K., **Rahimian, M.A.** "Structural Dynamics of Harmful Content Dissemination on WhatsApp." 2024 Purdue Operations Conference, Purdue University, August 23–25, 2024, West Lafayette, IN.
13. Eckles, D., Mossel, E., **Rahimian, M.A.**, Sen, S. "Long ties accelerate noisy threshold-based contagions." 24th CanQueue Workshop, August 24, 2024, Edmonton, AB, Canada.
12. Liu, Y.¹, **Rahimian, M.A.** "Differentially Private Sequential Learning." Theory and Practice of Differential Privacy Workshop (TPDP 2024), Harvard University, August 20–21, 2024, Cambridge, MA.
11. Papachristou, M., **Rahimian, M.A.** "Group Decision-Making among Privacy-Aware Agents." Theory and Practice of Differential Privacy Workshop (TPDP 2024), Harvard University, August 20–21, 2024, Cambridge, MA.
10. Liu, Y.¹, Garimella, K., **Rahimian, M.A.** "Virality of Information Diffusion on WhatsApp." International Conference on Computational Social Science (IC2S2 2024), July 18–20, 2024 (oral presentation), Philadelphia, PA.
9. Shamsaddini, V., **Rahimian, M.A.** "Extended Persistent Homology Distinguishes Simple and Complex Contagions with High Accuracy." International School and Conference on Network Science (NetSci 2024), June 16–21, 2024, Québec City, QC, Canada (oral presentation).
8. **Rahimian, M.A.** "Privacy-Preserving Information Sharing Among Competing Suppliers," Privacy, Security and Resilience session, IISE Annual Conference & Expo, May 18–21, 2024, Montréal, QC, Canada.
7. Papachristou, M., **Rahimian, M.A.** "Production Networks Resilience: Cascading Failures, Power Laws and Optimal Interventions." Conference on Network Science and Economics (NetSci-Econ 2024), April 2024, Twin Cities, MN.
6. Papachristou, M., **Rahimian, M.A.** "Group Decision-Making among Privacy-Aware Agents." PPAI-24: The 5th AAAI Workshop on Privacy-Preserving Artificial Intelligence (PPAI-2024), February 26, 2024, Vancouver, BC, Canada.

5. Papachristou, M., **Rahimian, M.A.** “Information Aggregation and Distributed Learning in Privacy-critical Environments.” Information Theory and Applications (ITA) Workshop, UC San Diego, February 2024, San Diego, CA.
4. Papachristou, M., **Rahimian, M.A.** “Production Networks Resilience: Cascading Failures, Power Laws And Optimal Interventions.” INFORMS Annual Meeting 2023, October 2023, Phoenix, AZ.
3. **Rahimian, M.A.**, Colaresi, M. “Harassment, Civic Unraveling, and Democratic Resilience in the Face of Technology Shocks,” Center for Informed Democracy & Social-cybersecurity (IDeaS) Conference, Carnegie Mellon University, September 20, 2023.
Conference papers page: https://www.cmu.edu/ideas-social-cybersecurity/events/conference_papers_2023.html.
2. Hurtado, C., **Rahimian, M.A.**, Sherwin, M.D. “Adaptive Robust Stochastic Optimization of Product–Supply Chain Co-Design Subject to Shocks.” IISE Annual Conference & Expo 2022, May 21–24, 2022, Seattle, WA.
1. **Rahimian, M.A.**, Yu, F.-Y. “Differentially Private Influence Maximization with Limited Data.” Theory and Practice of Differential Privacy Workshop (TPDP 2022), colocated with ICML 2022, July 22, 2022, Baltimore, MD.

Expository and Invited Writing

2. **Rahimian, M.A.**[†], Liu, Y.¹ “Differential Privacy for Strategic Information Sharing and Learning: An Annotated Reading List.” *ACM SIGecom Exchanges*, 2026, 24(1), pp. 123–126.
https://www.sigecom.org/exchanges/volume_24/1/RAHIMIAN.pdf.
1. “Long Ties Across Networks Accelerate the Spread of Social Contagions.” *Nature Human Behaviour*, 2024, 8(6), pp. 1012–1013. DOI: <https://doi.org/10.1038/s41562-024-01866-z>. Editorial *Research Briefing* commissioned by *Nature Human Behaviour* summarizing Eckles, Mossel, **Rahimian**[†], & Sen, “Long ties accelerate noisy threshold-based contagions,” *Nat. Hum. Behav.* 8(6):1057–1064, same issue.

Media

Selected External Coverage

- 2025 “Privacy-Preserving Information Exchange for Collective Inference and Learning,” *ISE Magazine* (IISE), *Inside IISE Journals* column, June 2025, pp. 44–45 — editors’ feature on Papachristou & **Rahimian**, “Differentially Private Distributed Estimation and Learning,” *IISE Transactions* 57(7):756–772. [\[feature\]](#)
- 2024 “Algorithms in the Wild: Pitt’s New Class Uses Real-World Data to Impact Positive Social Change,” *Technical.ly*, Atiya Irvin-Mitchell, February 26, 2024 (the *Data for Social Good* course, now *AI for Social Good*). [\[article\]](#)

Selected Institutional Coverage

- 2025 “Who Sees Who?,” *Pitt Engineering News*, July 2025 — feature on **Rahimian**’s differential-privacy research, spanning distributed estimation and inference with Marios Papachristou and privacy-aware social learning with Ph.D. student Yuxin Liu. [\[article\]](#)
- 2024 “Infected: Understanding the Spread of Behavior,” *Pitt Engineering News*, April 2024; syndicated by *Phys.org*, *ScienceDaily*, and *Neuroscience News* — on Eckles, Mossel, **Rahimian** & Sen, “Long ties accelerate noisy threshold-based contagions,” *Nature Human Behaviour*. [\[Pitt\]](#) [\[Phys.org\]](#) [\[ScienceDaily\]](#) [\[Neuroscience News\]](#)
- 2023 “Meet Your Social Media Mediator: Artificial Intelligence,” *Pitt Engineering News*, 2023 (algorithmic mediation; ACM Collective Intelligence Most Inspiring Paper Award). [\[article\]](#)
- 2021 “3 Questions: Vaccines and the Power of Positive Reinforcement,” *MIT News*, March 10, 2021 (also *MIT Sloan*, *Ideas Made to Matter*) — on Moehring, Collis, Garimella, **Rahimian**, Aral & Eckles, “Providing normative information increases intentions to accept a COVID-19 vaccine,” *Nature Communications* 14:126 (2023). [\[MIT News\]](#) [\[MIT Sloan\]](#)

Grants

External

- 2024–2027 **National Science Foundation (NSF), Emerging Mathematics in Biology (eMB).** *Multi-state Bootstrap Percolation on Digraphs as a Framework for Neuronal Network Analysis.* Co-PI.
- 2024–2026 **Centers for Disease Control and Prevention (CDC).** *A Discourse-Aware, Community-Informed Toolkit to Predict Virality and Impact of Vaccine Misinformation Contents.* Co-I.
- 2023–2025 **National Science Foundation (NSF), Secure and Trustworthy Cyberspace (SaTC).** *Towards a Privacy-Preserving Framework for Research on Private, Encrypted Social Networks.* Pitt PI.
- 2023 **Meta Foundational Integrity Research Award.** *Identifying Macro and Micro Factors in Spreading Conspiratorial Content.* Co-PI.
- 2022–2025 **U.S. Army DEVCOM Analysis Center.** *Improving Cooperation and Coordination in Heterogeneous Crowds of Soldiers and Robots.* Task PI.
- 2021–2025 **Centers for Disease Control and Prevention (CDC).** *Advancing Analytics Using Simulation Modeling to Improve Actionable Changes in the Opioid Overdose Epidemic.* Co-I.

Internal, University of Pittsburgh

- 2024 **Pitt Cyber Accelerator Grant.** *Examining Privacy Practices and Adaptations in Health Research Following the 2023 NIH Data Sharing Policy.* Co-PI.
- 2022 **Pitt Momentum Funds — Seeding Grant.** *Socially Responsible Data Collection and Network Intervention Codesigns.* PI.
- 2022 **Pitt Cyber Accelerator Grant.** *Modeling Threats to Sustainability of Social Networks as Critical Infrastructure.* PI.
- 2021 **Pitt Year of Data & Society Grant.** *Complementing the Engineering Curriculum with Data for Social Good.* PI.

Teaching

University of Pittsburgh, Pittsburgh, PA

Course creator & sole instructor

Fall 2022 – present	IE 1171 — AI for Social Good (undergraduate elective; formerly <i>Data for Social Good</i>). New course developed under Pitt’s Year of Data and Society, introducing machine learning and modern AI through <i>project-based learning</i> with real-world data, paired with readings on fairness, privacy, accountability, and data ethics. Redesigned for Fall 2026 around <i>mastery-based learning</i> and LLM-integrated tutorials — a required guided technical core with optional deeper extensions — coupling hands-on coding with model auditing, output verification, and agentic GitHub workflows. IE 1171 supports cross-school curricular initiatives, including Engineering Data Analytics Certificate , Pitt Business’s Certificate in Foundations of AI for Business , and the university-wide Learning Sciences and Emergent Technologies (LSET) Hub inventory of AI-related courses. Public repository: https://github.com/aminrahimian/ai-for-social-good .
Fall 2023 – present	IE 3080 — Probabilistic Analysis of Algorithms and Randomized Algorithms (advanced Ph.D. elective). New course developed on concentration bounds, the probabilistic method, random graphs, MCMC and mixing times, optimal stopping, multi-armed bandits, sample complexity, and inference on networks; built around a typeset lecture-notes book and problem sets that extend textbook tools toward open research questions. Public repository: https://github.com/aminrahimian/probabilistic-analysis-of-algorithms-and-randomized-algorithms .
Spring 2021 – present	IE 1072 — Design of Experiments and Quality Assurance (undergraduate core). Design of experiments and statistical quality control with an R companion. Public repository of typeset lecture notes and R scripts: https://github.com/aminrahimian/design-of-experiments-and-quality-assurance .
Spring 2024 – present	IE 2117 — Foundations of Statistics (Ph.D. core). New qualifier course developed to cover mathematical statistics across frequentist, Fisherian, and Bayesian approaches; supports the Industrial Engineering statistics Ph.D. qualifying examination.
Spring 2023, 2027	IE 2007 — Statistics and Data Analysis (M.S. core, Data Science concentration). Statistical modeling and data analysis through inference, ANOVA and factorial experiments, regression, Bayesian estimation, and computational analysis in R; emphasizes applying statistical methods to data and interpreting results.
Fall 2021, 2022	IE 2084 — Stochastic Processes (Ph.D. core). Qualifier course supporting the Industrial Engineering stochastic-processes Ph.D. qualifying examination.

University of Pennsylvania, Philadelphia, PA*Teaching assistant & staff to Prof. Santosh S. Venkatesh*

- Fall 2013–2015 **ESE 530 — Elements of Probability Theory and Random Processes** (Ph.D. core). Penn’s graduate probability course, based on *The Theory of Probability: Explorations and Applications* (Cambridge University Press, 2013), covering probability foundations, random variables and their convergence, limit theorems, and random (stochastic) processes. Led recitations, developed and graded problem sets, and held office hours across three fall offerings.
- Summer 2013, 2014 **ENM 503 — Introduction to Probability and Statistics** (M.S. core). Penn engineering master’s course introducing probability together with statistical inference. Developed and graded problem sets and held office hours across two summer offerings.
- Spring 2013–2016 **ESE 301 — Engineering Probability** (undergraduate core). Penn’s undergraduate probability course — combinatorial probability, conditioning and independence, random variables and standard distributions, expectation, and the limit theorems. Ran recitations and office hours and developed and graded problem sets across four spring offerings.
- 2013–2015 **Probability** (Penn open online course, Coursera). Undergraduate-probability MOOC — twelve thematic units, first offered on Coursera in 2015 and now freely available. Authored on-platform content, developed and worked out problem sets, and moderated the discussion forum.

Students

Doctoral Students (Sole Advisor Role)

- 2021 – 2025 Kushagra Tiwari, Ph.D., Industrial Engineering.
Dissertation: “[Socio-Spatial Network Dynamics of Public Health Crises in the US.](#)”

First Position: Senior Design for Supply Chain Engineer at Micron Technology, Boise, ID.
- 2022 – 2026 Abdulrahman Ahmed, Ph.D., Industrial Engineering.
Dissertation: “[Computationally Efficient Simulation-Based Policy Evaluation for Epidemic Interventions: Metamodeling, Sequential Design, and Localized Effect Estimation.](#)”

First Position: Data Scientist at Citizens Bank, Cleveland, OH.
- 2023 – 2026 Yuxin Liu, Ph.D., Industrial Engineering.
Dissertation: “[Privacy-Preserving Information Design for Learning, Strategic Interaction, and Networked Platforms.](#)”

First Position: Research Scientist at Huawei Technologies, Shenzhen, China.
- 2024 – Benjamin Panny, Ph.D., Intelligent Systems Program.
Dissertation working title: “Sample-Efficient Intelligence for Public Health Forecasting and Material Design.”

With 20+ other undergraduate and master’s researchers in [Sociotechnical Systems Research Lab](#).

Dissertation/Thesis Committees (Non-Advisor Role)

- 2026 – Edison Hauptman, Ph.D. Committee, Pitt Mathematics. “Simultaneous Bootstrap Percolation in Small-World Networks with High Clustering.”
- 2026 – Abdullah AboHussein, Ph.D. Committee, Pitt Industrial Engineering. “Electromechanical Coupling in Liquid Crystal Elastomers.”
- 2026 – João Correa, Ph.D. Dissertation Prospectus Defense, Pitt Political Science. “Essays on Causal Inference and Interference.”
- 2026 – Zhiwei Gong, Ph.D. Preliminary Exam Committee, Pitt ISP. “Unsupervised Domain Adaptation for Diagnostic Model Resilience on Heterogeneous Medical Imaging Data.”

- 2025 – Melody Chen, Ph.D. Committee, Pitt Industrial Engineering. “Quickest Change Detection in Machine Learning Applications.”
- 2022 – 2025 Marios Papachristou, Ph.D. Committee, Cornell University. “From Contagion to Stability: Insights into Network Dynamics, Resilience, and Stability.”
- 2023 Yao Fan, M.S. Thesis Committee, Pitt ISP. “Personalized Decision Support with ToM Modeling and Explainable Reinforcement Learning.”

Awards

2023	Meta Foundational Integrity Research Award (with Yu-Ru Lin, PI).
2022	Pitt Momentum Funds Award.
2021	Finalist, Facebook Statistics for Improving Insights, Models, and Decisions Proposal Competition.
2021	Most Inspiring Research Paper Award, ACM Collective Intelligence Conference.
2016	ESE Graduate Award for Best Teaching Assistant at the Doctoral Level, University of Pennsylvania.
2016	ACC Best Student Paper Award (Finalist).
2016	Outstanding Poster Award, Stochastic Networks Conference.
2015	Finalist, Facebook Fellowship Competition.

Service

Institutional Service, University of Pittsburgh

2025 –	Member, Research Ethics Consultation Service (RECS) team, Research Ethics & Society Initiative (RESI).
2023 –	IE Department Graduate Committee (continuous participation including PhD qualifier exams in Statistics and Stochastic Processes, and PhD admission and recruitment).
2024	Member, Ph.D. Admissions Committee, Intelligent Systems Program (ISP); reviewed machine-learning and analytics applicants and participated in admissions deliberations.
2023	SSOE Systems Engineering Committee.
2021, 2025	Tenure-Stream Faculty Search Committee, IE (both resulting in new hires).

Conference Organization and Leadership

2027	Senior Program Committee/Area Chair, Special Track on AI for Social Impact (AISI) at the 41st AAAI Conference on Artificial Intelligence.
2026	Program Co-Chair, 2nd IEEE Workshop on Healthcare and Medical Device Security, Privacy, Resilience, and Trust (IEEE HMD-SPiRiT).
2026	Session Co-Chair and Organizer, “LLMs and Social Systems,” INFORMS Annual Meeting, November 1–4, 2026, San Francisco, CA.
2025	Program Co-Chair, 1st IEEE Workshop on Healthcare and Medical Device Security, Privacy, Resilience, and Trust (IEEE HMD-SPiRiT).
2025	Tutorial Organizer, “Differential Privacy for Strategic Information Sharing and Learning,” WINE 2025 (21st Conference on Web and Internet Economics), Rutgers University.
2024	US/Canada Publicity Chair, 2024 IEEE/ACM Annual Modeling and Simulation Conference (ANNSIM).
2022	Operations Research Track Co-Chair, 2022 IIE Annual Meeting.
2019	Session Co-Chair and Organizer, “Seeding and value of network information in social network applications,” INFORMS Annual Meeting, October 20–23, 2019, Seattle, WA.

Editorial Service

2026	Invited non-member editor (direct handling editor for one paper), <i>Proceedings of the National Academy of Sciences</i> (PNAS).
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2021 Invited consultant, book proposal on experimental design, *Cambridge University Press*.

Advisory and Federal Panel Service

2024, 2026 Panelist, U.S. National Science Foundation review panels (4 panels).

2021 Advisory council member, Alliance for Advancing Health Online, Vaccine Confidence Fund.

Conference Program Committees

2028 American Control Conference (ACC).

2026 INFORMS Workshop on Data Science (DS).

2024– Theory and Practice of Differential Privacy (TPDP).

2024, 2025 Privacy-Preserving Artificial Intelligence Workshop (PPAI).

2024, 2025 The Web Conference (WWW).

2021, 2023 ACM Conference on Economics and Computation (EC).

2022 ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO).

2022 International Workshop on Social Sensing (SocialSens).

Journal Reviewing

2022 – *Management Science*.

2022, 2024 *Operations Research*.

2025 – *INFORMS Journal on Computing*.

2024, 2026 *INFORMS Journal of Applied Analytics*.

2025 *Production and Operations Management*.

2022 *Manufacturing & Service Operations Management*.

2025 *Naval Research Logistics*.

2023, 2026 *IIE Transactions*.

2025 – *IIE Transactions on Healthcare Systems Engineering*.

2026 *Health Care Management Science*.

2025 *Statistical Methods in Medical Research*.

2026 *Journal of Educational and Behavioral Statistics*.

2025 *IEEE Transactions on Information Forensics and Security*.

2025	<i>IEEE Transactions on Dependable and Secure Computing.</i>
2025	<i>IEEE Transactions on Big Data.</i>
2025	<i>IEEE Internet of Things Journal.</i>
2025	<i>ACM Transactions on Knowledge Discovery from Data.</i>
2016 – 2024	<i>IEEE Transactions on Network Science and Engineering.</i>
2022 – 2023	<i>IEEE Control Systems Letters.</i>
2016 – 2022	<i>IEEE Transactions on Signal Processing.</i>
2020	<i>IEEE Transactions on Information Theory.</i>
2020, 2021	<i>IEEE Transactions on Control of Network Systems.</i>
2024 – 2025	<i>Proceedings of the National Academy of Sciences.</i>
2022 – 2023	<i>Scientific Reports.</i>

Professional Society Memberships

2016 –	Institute for Operations Research and the Management Sciences (INFORMS); Senior Member since 2026.
2015–	ACM Special Interest Group on Economics and Computation (ACM SIGecom).
2020 –	Institute of Industrial and Systems Engineers (IISE).
2026	Production and Operations Management Society (POMS).
2025	Canadian Operational Research Society (CORS).
2007 – 2018	Institute of Electrical and Electronics Engineers (IEEE).