

# Murat Kocaoglu

3400 N Charles St 339  
Baltimore, MD 21218

E-mail: [mkocaoglu@jhu.edu](mailto:mkocaoglu@jhu.edu)  
<https://www.muratkocaoglu.com>

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POSITIONS	<b>Assistant Professor</b>	Aug. 18, 2025 – present
	Department of Computer Science Johns Hopkins University <i>I conduct research on causal machine learning, causal structure discovery, deep generative models, information theory and online algorithms.</i>	
	<b>Assistant Professor</b>	Jan. 1, 2021 – Aug. 15, 2025
	School of Electrical and Computer Engineering Purdue University <i>I conduct research on causal machine learning, causal structure discovery, deep generative models, information theory and online algorithms.</i>	
	<b>Research Staff Member</b>	Sep. 2018 – Dec. 2021
	MIT-IBM Watson AI Lab IBM Research <i>I conduct research on causal machine learning, causal structure discovery, deep generative models, information theory and online algorithms.</i>	
TEACHING EXPERIENCE	<b>Co-instructor (jointly taught with Mathias Unberath)</b>	Fall 2025
	CS482/682 ML: Deep Learning Department of Computer Science, Johns Hopkins University <i>Fundamentals of Deep Learning methods and state of the art architectures.</i>	
	<b>Instructor</b>	Spring 2025
	ECE570: Artificial Intelligence School of Electrical and Computer Engineering, Purdue University <i>Unsupervised learning, probabilistic methods in AI/ML.</i>	
	<b>Instructor</b>	Fall 2021, Fall 2023
	ECE695-230: Probabilistic Causal Inference School of Electrical and Computer Engineering, Purdue University <i>Causal inference and discovery, ML applications.</i> <i>Fall 2021 Enrollment: 15 students. Fall 2023 Enrollment: 20 students</i>	
	<b>Instructor</b>	Spring 2022, Spring 2023, Spring 2024, Fall 2024
	ECE20875: Python for Data Science School of Electrical and Computer Engineering, Purdue University <i>Basics of data science and statistics, and Python.</i> <i>Spring 2022 Enrollment: 132 students. Spring 2023 Enrollment: 90 students.</i> <i>Spring 2024 Enrollment: 139 students. Fall 2024 Enrollment: 93 students.</i>	
	<b>Instructor</b>	Fall 2022
	ECE642: Information Theory and Source Coding School of Electrical and Computer Engineering, Purdue University <i>Encoding/decoding and transmission of information. Entropy, channel capacity, and source compression algorithms. Enrollment: 15.</i>	

**Co-Instructor**

Spring 2021

ECE302: Probabilistic Methods in Electrical and Computer Eng.  
 School of Electrical and Computer Engineering, Purdue University  
*Co-taught with Prof. Saul Gelfand. Enrollment: 261 students.*

EDUCATION	<b>The University of Texas at Austin,</b> PhD, Electrical and Computer Engineering. Thesis: Causality: From Learning to Generative Models Co-advisor: <i>Prof. Alexandros G. Dimakis</i> Co-advisor: <i>Prof. Sriram Vishwanath</i>	Sept. 2013 – Aug. 2018
	<b>Koc University,</b> Istanbul, Turkey Master of Science, Electrical Engineering. Thesis: Minimum Energy Channel and Network Coding with Applications in Nanoscale Communications Advisor: <i>Prof. Ozgur B. Akan</i>	Sept. 2010 – Aug. 2012
	<b>Middle East Technical University,</b> Ankara, Turkey Major: Bachelor of Science, Electrical and Electronics Engineering. Graduated with High-honors. Minor: Physics.	Sept. 2006 – Jun. 2010
PREV. POSITIONS	<b>Research Staff Member,</b> MIT-IBM Watson AI Lab, IBM Research MA, USA <i>I conducted research on causal inference and discovery, learning theory, deep generative models and information theory.</i>	Sept. 2018 – Dec. 2020
	<b>Research Assistant,</b> Wireless Networking and Communications Group, The University of Texas at Austin, Austin. USA. <i>I conducted research on causal discovery from observational data using information-theoretic methods, as well as causal discovery using interventions. I also worked on learning theory and online algorithms.</i>	Sept. 2013 – Aug. 2018
CURRENT RESEARCH INTERESTS	<ul style="list-style-type: none"> <li>• Causal Methods for Security</li> <li>• Trustworthy AI</li> <li>• Causal Inference and Structure Discovery</li> <li>• Generative Models</li> <li>• Information Theory</li> <li>• Online Algorithms</li> </ul>	
POST-DOC RESEARCHERS	Lai Wei	Fall 2022 - Summer 2023
PHD STUDENTS	Md. Musfiqur Rahman Kenneth Lee Ziwei Jiang Shanyun Gao Qasim Elahi Zihan Zhou	Fall 2021 - current Fall 2021 - current Fall 2022 - current Fall 2022 - current Fall 2022 - current Fall 2022 - current Fall 2023 - current
UNDERGRAD. RESEARCHERS	Ryan Wans	Fall 2024

ONLINE  
MSECE  
STUDENTS  
VISITING  
RESEARCHERS

Shaunak Mukherjee

2024

Suyeong Park

July - August 2021

PUBLICATIONS  
*Machine Learning, AI*

1. S. Gao, R. Addanki, T. Yu, R. A. Rossi, Q. Song, M. Kocaoglu, "Stationarity-Aware Causal Discovery in Time Series via Minimal Separating Sets," in **Proc. of AISTATS 2026**, Tangier, Morocco, May 2026.
2. Z. Zhou, Q. Elahi, M. Kocaoglu, "Characterization and Learning of Causal Graphs from Hard Interventions," in **Proc. of NeurIPS'25**, San Diego, CA, Dec. 2025.
3. J. Zhou, M. Wang, A. He, Y. Zhou, H. Olya, M. Kocaoglu, B. Ribeiro, "Differentiable Constraint-Based Causal Discovery," in **Proc. of NeurIPS'25**, San Diego, CA, Dec. 2025.
4. M. Q. Elahi, M. Ghasemi, M. Kocaoglu, "Identification of Average Treatment Effects in Confounded Additive Noise Models", in **Proc. of TMLR**, Oct. 2025.
5. M. M. Rahman, M. Kocaoglu, "FeDCM: Federated Learning of Deep Causal Generative Models," in **Proc. of UAI'25**, Rio de Janeiro, Brazil, July 2025.
6. A. Ikram, K. Lee, Shubham Agarwal, Subrata Mitra, Shiv Kumar Saini, Saurabh Bagchi, Murat Kocaoglu, "Root Cause Analysis of Failures from Partial Causal Structures," in **Proc. of UAI'25**, Rio de Janeiro, Brazil, July 2025.
7. K. Lee, B. Ribeiro, M. Kocaoglu, "Constraint-based Causal Discovery from a Collection of Conditioning Sets," in **Proc. of UAI'25**, Rio de Janeiro, Brazil, July 2025.
8. S. Gao, R. Addanki, T. Yu, R. A. Rossi, M. Kocaoglu, "Causal Discovery-Driven Change Point Detection in Time Series," in **Proc. of AISTATS'25**, Phuket, Thailand, May 2025.
9. M. M. Rahman, M. Jordan, M. Kocaoglu, "Conditional Generative Models are Sufficient to Sample from Any Causal Effect Estimand," in **Proc. of NeurIPS'24**, Vancouver, Canada, Dec. 2024.
10. Z. Zhou, M. Q. Elahi, M. Kocaoglu, "Sample Efficient Bayesian Learning of Causal Graphs from Interventions," in **Proc. of NeurIPS'24**, Vancouver, Canada, Dec. 2024.
11. M. Q. Elahi, M. Ghasemi, M. Kocaoglu, "Partial Structure Discovery is Sufficient for No-regret Learning in Causal Bandits," in **Proc. of NeurIPS'24**, Vancouver, Canada, Dec. 2024.
12. Z. Zhou, T. Liu, R. Bai, J. Gao, M. Kocaoglu, D. I. Inouye, "Counterfactual Fairness by Combining Factual and Counterfactual Predictions," in **Proc. of NeurIPS'24**, Vancouver, Canada, Dec. 2024.
13. M. Rahman, M. Kocaoglu, "Modular Learning of Deep Causal Generative Models for High-dimensional Causal Inference", in **Proc. of ICML'24**, Austria, Vienna, July 2024.
14. Q. Elahi, L. Wei, M. Kocaoglu, M. Ghasemi, "Adaptive Online Experimental Design for Causal Discovery," in **Proc. of ICML'24**, Austria, Vienna, July 2024.
15. Z. Jiang, M. Kocaoglu, "Conditional Common Entropy for Instrumental Variable Testing and Partial Identification," in **Proc. of ICML'24**, Austria, Vienna, July 2024.
16. S. Kulinski, Z. Zhou, R. Bai, M. Kocaoglu, D. I. Inouye, "Towards Characterizing Domain Counterfactuals for Invertible Latent Causal Models," in **Proc. of ICLR'24**, 2024.
17. M. Kocaoglu, "Characterization and Learning of Causal Graphs with Small Conditioning Sets", in **Proc. of NeurIPS'23**, New Orleans, LA, USA, 2023.
18. S. Gao, R. Addanki, T. Yu, R. A. Rossi, M. Kocaoglu, "Causal Discovery in Semi-Stationary Time Series," in **Proc. of NeurIPS'23**, New Orleans, LA, USA, 2023.
19. L. Wei, M. Q. Elahi, M. Ghasemi, M. Kocaoglu, "Approximate Allocation Matching for Structural Causal Bandits with Unobserved Confounders," in **Proc. of NeurIPS'23**, New Orleans, LA, USA, 2023.

20. A. Shah, K. Shanmugam, M. Kocaoglu, "Front-door Adjustment Beyond Markov Equivalence with Limited Graph Knowledge", in **Proc. of NeurIPS'23**, New Orleans, LA, USA, 2023.
21. K. Lee, M. Rahman, M. Kocaoglu, "Finding Invariant Predictors Efficiently via Causal Structure", in **Proc. of UAI'23**, Pittsburgh, Mar. 2023.
22. Z. Jiang, L. Wei, M. Kocaoglu, "Approximate Causal Effect Identification under Weak Confounding", in **Proc. of ICML'23**, Feb. 2023.
23. S. Compton, D. Katz, B. Qi, K. Greenewald, M. Kocaoglu, "Minimum-Entropy Coupling Approximation Guarantees Beyond the Majorization Barrier," in **Proc. of AISTATS'23**, Valencia, Spain, Apr. 2023.
24. M. A. Ikram, S. Chakraborty, S. Mitra, S. Saini, S. Bagchi, M. Kocaoglu, "Root Cause Analysis of Failures in Microservices through Causal Discovery," in **Proc. of NeurIPS'22**, Dec. 2022.
25. S. Compton, K. Greenewald, D. Katz, M. Kocaoglu, "Entropic Causal Inference: Graph Identifiability", in **Proc. of ICML'22**, Baltimore, USA, July 2022.
26. K. Ahuja, P. Sattigeri, K. Shanmugam, D. Wei, K. N. Ramamurthy, M. Kocaoglu, "Conditionally Independent Data Generation", in **Proc. of UAI'21**, Online, July 2021.
27. M. Kocaoglu, S. Shakkottai, A. G. Dimakis, C. Caramanis, S. Vishwanath, "Applications of Common Entropy for Causal Inference," in **Proc. of NeurIPS'20**, Online, Dec. 2020.
28. S. Compton, M. Kocaoglu, K. Greenewald, D. Katz, "Entropic Causality: Identifiability and Finite Sample Results," in **Proc. of NeurIPS'20**, Online, Dec. 2020.
29. A. Jaber, M. Kocaoglu, K. Shanmugam, E. Bareinboim, "Causal Discovery from Soft Interventions with Unknown Targets: Characterization and Learning," in **Proc. of NeurIPS'20**, Online, Dec. 2020.
30. C. Squires, S. Magliacane, K. Greenewald, D. Katz, M. Kocaoglu, K. Shanmugam, "Active Structure Learning of Causal DAGs via Directed Clique Trees," in **Proc. of NeurIPS'20**, Online, Dec. 2020.
31. M. Kocaoglu\*, A. Jaber\*, K. Shanmugam\*, E. Bareinboim, "Characterization and Learning of Causal Graphs with Latent Variables from Soft Interventions," in **Proc. of NeurIPS'19**, Vancouver, Canada, Dec. 2019.
32. K. Greenewald, D. Katz, K. Shanmugam, S. Magliacane, M. Kocaoglu, E. B. Adsera, G. Bresler, "Sample Efficient Active Learning of Causal Trees," in **Proc. of NeurIPS'19**, Vancouver, Canada, Dec. 2019.
33. E. Lindgren, M. Kocaoglu, A. G. Dimakis, S. Vishwanath, "Minimum Cost Intervention Design and Connections to Submodularity," in **Proc. of NeurIPS'18**, Montreal, Canada, Dec. 2018.
34. M. Kocaoglu\*, C. Snyder\*, A. G. Dimakis, S. Vishwanath, "CausalGAN: Learning Causal Implicit Generative Models with Adversarial Training," in **Proc. of ICLR'18**, Vancouver, May 2018.
35. M. Kocaoglu\*, K. Shanmugam\*, E. Bareinboim, "Experimental Design for Learning Causal Graphs with Latent Variables," in **Proc. of NIPS'17**, Dec. 2017.
36. M. Kocaoglu, A. G. Dimakis, S. Vishwanath, "Cost-Optimal Learning of Causal Graphs," in **Proc. of ICML'17**, 2017.
37. M. Kocaoglu, A. G. Dimakis, S. Vishwanath, B. Hassibi, "Entropic Causality and Greedy Minimum Entropy Coupling," in **Proc. of ISIT'17**, 2017.
38. R. Sen, K. Shanmugam, M. Kocaoglu, A. G. Dimakis, S. Shakkottai, "Contextual Bandits with Latent Confounders: An NMF Approach," in **Proc. of AISTATS'17**, Fort Lauderdale, USA, Apr. 2017.
39. M. Kocaoglu, A. G. Dimakis, S. Vishwanath, B. Hassibi, "Entropic Causal Inference," in **Proc. of AAAI'17**, San Francisco, USA, Feb. 2017.
40. K. Shanmugam\*, M. Kocaoglu\*, A. G. Dimakis, S. Vishwanath, "Learning Causal Graphs with Small Interventions," in **Proc. of NIPS'15**, Montreal, Canada, Dec. 2015.

41. M. Kocaoglu\*, K. Shanmugam\*, A. G. Dimakis, A. Klivans, "Sparse Polynomial Learning and Graph Sketching," in *Proc. of NIPS'14 (Oral)*, Montreal, Canada, Dec. 2014.

WORKSHOP  
PAPERS

1. M. Q. Elahi, M. Ghasemi and M. Kocaoglu, "Partial Structure Discovery is Sufficient for No-regret Learning in Causal Bandits," ICML 2024 Workshop: Foundations of Reinforcement Learning and Control– Connections and Perspectives, Jul. 2024.
2. M. M. Rahman, M. Jordan, M. Kocaoglu, "Conditional Generative Models are Sufficient to Sample from Any Causal Effect Estimand," in ICML 2024 Workshop on Structured Probabilistic Inference and Generative Modeling, Vienna, Austria, Jul. 2024.
3. Z. Jiang, M. Kocaoglu, "Conditional Common Entropy for Instrumental Variable Testing and Partial Identification," in ICML 2024 Workshop on Structured Probabilistic Inference and Generative Modeling, Austria, Vienna, July 2024.
4. K. Lee, B. Ribeiro, M. Kocaoglu, "Constraint-based Causal Discovery from a Collection of Conditioning Sets," 9th Causal Inference Workshop at UAI 2024, 2024.
5. K. Lee, M. Kocaoglu, "RCPC: A Sound Causal Discovery Algorithm under Orientation Unfaithfulness," 9th Causal Inference Workshop at UAI 2024, 2024.
6. S. Gao, R. Addanki, T. Yu, R. A. Rossi, M. Kocaoglu, "Causal Discovery in Semi-Stationary Time Series," UAI 2023 Workshop on Causal inference for Time-series Data, 2023.
7. Z. Jiang, L. Wei, M. Kocaoglu, "Approximate Causal Effect Identification under Weak Confounding," ICML 2023 Workshop on Spurious Correlations, Invariance, and Stability, 2023.
8. A. Shah, K. Shanmugam, M. Kocaoglu, "Front-door Adjustment Beyond Markov Equivalence with Limited Graph Knowledge," ICML 2023 Workshop on Spurious Correlations, Invariance, and Stability, 2023.
9. M. Rahman, M. Kocaoglu, "Towards Modular Learning of Deep Causal Generative Models," ICML 2023 Workshop on Spurious Correlations, Invariance, and Stability, 2023.
10. M. Rahman, M. Kocaoglu, "Towards Modular Learning of Deep Causal Generative Models," ICML 2023 Workshop on Structured Probabilistic Inference & Generative Modeling, 2023
11. S. Compton, M. Kocaoglu, K. Greenewald, D. Katz, "Entropic Causal Inference: Identifiability for Trees and Complete Graphs", in ITR3 Workshop at ICML-21, Online, July 2021.
12. E. Lindgren, M. Kocaoglu, A. G. Dimakis, S. Vishwanath, "Submodularity and Minimum Cost Intervention Design for Learning Causal Graphs," in DISCML'17 Workshop, NIPS'17, Dec. 2017.
13. M. Kocaoglu, A. G. Dimakis, S. Vishwanath, "Learning Causal Graphs with Constraints," in NIPS'16 Workshop: What If? Inference and Learning of Hypothetical and Counterfactual Interventions in Complex Systems, Barcelona, Spain, Dec. 2016.

INVITED  
TALKS &  
ACTIVITIES

*Organizer of AISTATS 2026 Workshop on Causality in the Age of AI Scaling, Tangier, Morocco, May 2026.*

*Invited Talk on "Causal Inference with Deep Generative Models," AI Keynote Series, Institute of AI in Management, LMU Munich, Online, Jan. 8, 2025.*

*Invited Talk on "Causal Inference with Deep Generative Models", MINDS/CIS Seminar Series, Nov. 4, 2025*

*Tutorial on "Causal Inference with Deep Learning and Generative Models," co-presented with Md. Musfiqur Rahman, UAI 2025, Rio de Janeiro, Brazil, July 2025.*

*Invited Talk on "Causal Machine Learning: Fundamentals and Applications," CCAIM Seminar Series, University of Cambridge, Nov. 22 2024.*

*Invited Talk on “Causal Machine Learning: Fundamentals and Applications,” Department of Computer Science, Johns Hopkins University, Nov. 14 2024.*

*Invited Talk on “High-dimensional Causal Inference via Deep Generative Models with Applications in Trustworthy AI”, Department of Statistics Colloquium, Purdue University, Oct. 2024.*

*Invited Talk on “Principled Causal Methods for Computer Security”, AI/Security Talks, Amazon Web Services, Online, Oct. 2024.*

*Invited Participant to “Expert Workshop on Building Calibrated Trust in Artificial Intelligence,” UA Ruhr, German House, NYC, New York, Oct. 2024.*

*Invited Talk on Entropic Methods for Causal Inference and Discovery, “Data-Driven Causal Inference: Information Theory Meets Dynamical Systems,” AFOSR Arlington BRICC, Arlington, VA, Aug. 2024.*

*Session Chair of Oral Session 1 on Deep Learning, UAI’24, Barcelona, Spain.*

*Invited Talk on “Causal Machine Learning: Fundamentals and Applications,” IDEAL Workshop on Graph Representation Learning Workshop, University of Illinois Chicago, May 2024.*

*Invited Talk on “Causal Machine Learning: Fundamentals and Applications,” Purdue University, Department of Computer Science, March 2024.*

*Invited Talk on “Causal Machine Learning: Fundamentals and Applications,” Middle East Technical University, Department of Electrical and Electronics Engineering, March 2024.*

*Invited Participant for “Semiconductor Industry Roundtable on Open and Scaled Data Sharing for Smart Manufacturing”, Seagate, Minneapolis, Feb. 2024.*

*Invited Talk on “Approximate Causal Effect Identification under Weak Confounding”, Information Theory Applications Workshop (ITA), San Diego, CA, Feb. 2024.*

*Invited Talk on “Causal Discovery via Common Entropy” at the Causal Inference & Quantum Foundations Workshop, Perimeter Institute, Waterloo, ON, Canada, Apr. 2023.*

*Invited Talk on “Entropic Causal Inference and Approximate Minimum Entropy Coupling”, Information Theory Applications Workshop (ITA), San Diego, CA, Feb. 2023.*

*TILOS Seminar Series Invited Talk on “Causal Discovery for Root-cause Analysis,” [Online], Jan. 2023.*

*Guest Editor for the Special Issue on “Information-theoretic Methods for Causal Inference and Discovery”, Entropy, MDPI, 2023.*

*ICON Seminar on “Causal Discovery for Root-cause Analysis”, Purdue University, October 2022.*

*Pacific Northwest National Laboratory (PNNL) Research Seminar on “Causal Discovery for Root-cause Analysis”, July 2022.*

*Invited Participant at Simons Institute Causality Workshop, UC Berkeley, February 2022.*

*General chair for The AAAI-22 Workshop on Information-Theoretic Methods for Causal Inference and Discovery (ITCI’22), Vancouver, Canada, February 2022.*

*Session Chair for ICERM Workshop on Advances in Theory and Algorithms for Deep Reinforcement Learning, [Online], Aug. 2, 2021.*

*Discussant in Causality Session at UAI'21 [Online], July 27, 2021.*

*Purdue ECE Talk: Entropic Methods for Causal Discovery, Online talk for graduate students and the faculty, Mar. 4, 2021.*

*Session chair for IJCAI'20 [Machine Learning] Learning Generative Models, Jan. 2021.*

*Lightning Talk in Young Researchers Workshop on CausalGAN, ORIE, Cornell University, Ithaca, NY, Oct. 2019.*

*Co-organized "Bridging Causal Inference, Reinforcement Learning and Transfer Learning Workshop" in IBM AI Research Week, 2019.*

*Invited Talk in AAI-WHY19 Spring Symposium on CausalGAN, Stanford, CA, March 25-27, 2019.*

*Shannon Channel Talk: Entropic Methods for Causal Discovery, Online talk hosted by Salim El Rouayheb, Mar. 1st, 2019.*

*Hands-on machine learning workshop (jointly with Alex Dimakis), 2018 North American School of Information Theory, Texas A&M University, May 20-23, 2018.*

*Invited Talk in Los Alamos National Laboratories (LANL) on Causality, Los Alamos, NM, Aug. 2017.*

*Organized student seminar series in machine learning in WNCG, UT Austin, 2015-2016.*

ORGANIZING Publicity Chair, UAI 2024  
COMMITTEE

AREA CHAIR, NeurIPS (since 2023),  
SENIOR PC, ICML (since 2025),  
META-REVIEWER AAI (since 2021),  
FOR ICLR (since 2023),  
AISTATS (since 2023),  
UAI (since 2023),  
ACML (since 2022),  
IJCAI (2020-2021).

ASSOCIATE IEEE Transactions on Signal Processing (since 2026).  
EDITOR FOR

REVIEWER NeurIPS (2016 - 2022), ICML (2018 - 2024), ICLR, AAI (2020), AISTATS (2019-2022), IJCAI (2019), UAI,  
FOR COLT, ISIT, CLear (since 2021) and many others.  
Journal of Machine Learning Research (JMLR), IEEE Transactions on Information Theory,  
IEEE Journal on Selected Areas in Information Theory (JSAIT), Neural Networks (ACM),  
Nature (Human Behavior), Annals of Statistics, Annals of Applied Statistics  
Artificial Intelligence (Elsevier), Data Mining and Knowledge Discovery (Springer)

PHD/MS Rahul Jain (PhD Thesis) *Nov. 2025*

ADVISORY *Advisor: Karthik Ramani*

COMMITTEE

MEMBER William Stephen Richards (PhD Prelim) *Nov. 2025*

*Advisor: Stylianos Chatzidakis*

William Stephen Richards (MS Thesis)

*2025*

*Advisor: Stylianos Chatzidakis*

	Zeyu Zhou (PhD Thesis) <i>Advisor: David Inouye</i>	Nov. 2025
	Osman Ali Mian (PhD Thesis) <i>Advisor: Jilles Vreeken</i>	Feb. 2025
	Jimmy Ian Gammell <i>Advisor: Kaushik Roy</i>	
	Sean Kulinsky (PhD Thesis) <i>Advisor: David Inouye</i>	Dec. 2023
	Teng-Hui Huang (PhD Thesis) <i>Advisor: Aly El Gamal</i>	2022
	Antesh Antesh (MS Candidate) <i>Advisor: Abolfazl Hashemi</i>	
	Hyungjun Doh (MS Candidate) <i>Advisor: Karthik Ramani</i>	
AWARDS & RECOGNITION	<b>Amazon Research Award</b>	Mar. 2024
	<b>NSF CAREER Award</b>	July 2023
	<b>Adobe Data Science Research Award</b>	Mar. 2022
	<b>Reviewer Award for NeurIPS 2022</b> Top Reviewer	Nov. 2022
	<b>Reviewer Award for UAI 2022</b> Top Reviewer	July 2022
	<b>Reviewer Award for ICLR 2022</b> <i>Highlighted Reviewer</i>	April 2022
	<b>Program Committee Board Member of IJCAI</b>	2022-2024
	<b>Reviewer Award for UAI 2021</b> Amongst Top 5% of Reviewers	May 2021
	<b>Reviewer Award for ICLR 2021</b> Outstanding Reviewer	Mar. 2021
	<b>Reviewer Award for ICML 2020</b> Amongst Top 33% of Reviewers	Sept. 2020
	<b>Reviewer Award for NeurIPS 2019</b> Amongst Top 50% of Reviewers	Sept. 2019
	<b>Reviewer Award for NeurIPS 2018</b> Amongst Top 218 Reviewers	Sept. 2018
	<b>Student Travel Award for ICLR 2018</b>	Mar. 2018
<b>Student Travel Award for NIPS 2017</b>	Oct. 2017	

	<b>Student Travel Award for ICML 2017</b>	June 2017
	<b>Student Travel Grant for ISIT 2017</b>	Apr. 2017
	<b>Short Course Travel Support</b> Center for Causal Discovery (CCD), Pittsburgh	May. 2016
	<b>Student Travel Award for NIPS 2015</b>	Oct. 2015
	<b>Best Senior Design Project</b> , Dept. of Electrical and Electronics Engineering Middle East Technical University, Ankara, Turkey. <i>A wireless helmet design to detect user's head movements and facial gestures to accomplish certain tasks on the computer.</i>	Spring, 2010
	<b>Bulent Kerim Altay Award</b> , Dept. of Electrical and Electronics Engineering. Middle East Technical University, Ankara, Turkey. <i>Ranked 1st in the Department of Electrical and Electronics Engineering</i>	Spring, 2009
	<b>Ranked Top 100 in National University Selection Exam of Turkey</b> , Among more than 1.5 million students nation-wide	Jun. 2006
OUTREACH	<b>Introduce A Girl to Engineering Day Activity</b> <i>Lemonade Stand: A hands-on activity that introduced the notion of causality to high school students.</i>	Feb. 2023
	<b>Engineering Academic Career Club Academic Mentor</b> <i>Biweekly mentorship meetings with 8 students interested in an academic career from a wide range of demographics, including several URM students.</i>	Summer 2021, 2022, 2023, 2024
	<b>Mentorship Session</b> <i>The AAAI-22 Workshop on Information-theoretic Causal Inference and Discovery</i>  <i>Mentorship Circles at ICLR'21 [Online], March 3, 2021.</i>	2022