

Himabindu Lakkaraju

Contact Information	Science and Engineering Complex 150 Western Ave, Suite 6.220 Boston, MA 02134 E-mail: hlakkaraju@hbs.edu ; hlakkaraju@seas.harvard.edu Webpage: http://himalakkaraju.github.io	
Research Interests	Trustworthy Machine Learning (Explainability, Fairness, Robustness); Human-AI Interaction; Applications of AI/ML to Decision Making in Healthcare, Law, and Policy.	
Academic & Professional Experience	Harvard University Assistant Professor with appointments in the Business School and the Department of Computer Science (Affiliate) Faculty Affiliate, Harvard Data Science Initiative Fiddler AI AI Research Fellow Simons Institute for the Theory of Computing, UC Berkeley Visiting Scientist, Summer Cluster on Interpretable Machine Learning Visiting Graduate Student, Summer Cluster on Algorithmic Fairness Harvard University Postdoctoral Fellow, Business School & Department of Computer Science Stanford University Research Assistant, Department of Computer Science Microsoft Research, Redmond Visiting Researcher Research Intern University of Chicago Data Science for Social Good Fellow IBM Research - India, Bangalore Research Engineer SAP Research, Bangalore Visiting Researcher Adobe Systems Pvt. Ltd., Bangalore Software Engineer	01/2020 - Present 06/2021 - Present 06/2022 - 08/2022 07/2018 - 08/2018 11/2018 - 12/2019 9/2012 - 9/2018 5/2017 - 6/2017 6/2016 - 9/2016 6/2014 - 8/2014 7/2010 - 7/2012 7/2009 - 3/2010 7/2007 - 7/2008
Education	Stanford University Ph.D. in Computer Science Thesis: Human-Centric Machine Learning: Enabling Machine Learning for High-Stakes Decision Making Committee: Jure Leskovec (Advisor), Emma Brunskill, Eric Horvitz, Jon Kleinberg, Percy Liang, Cynthia Rudin Stanford University Master of Science (MS) in Computer Science Indian Institute of Science (IISc) Master of Engineering (MEng) in Computer Science & Automation	9/2012 - 9/2018 9/2012 - 9/2015 8/2008 - 7/2010
Selected Honors & Achievements	Best Paper Award, ICML Workshop on Interpretable ML in Healthcare Outstanding Paper Honorable Mention, NeurIPS Workshop on Trustworthy and Socially Responsible Machine Learning	2022 2022

JP Morgan Faculty Research Award	2022
Kavli Fellow 2023, Kavli Frontiers of Science at the National Academy of Sciences	2022
Selected as one of the members of the National AI Advisory Committee instituted by the US government (could not serve due to citizenship status)	2022
National Science Foundation (NSF) Amazon Fairness in AI Grant	2021
Google AI for Social Good Research Award	2021
Best Paper Runner Up, ICML Workshop on Algorithmic Recourse	2021
Google Research Award	2020
Amazon Research Award	2020
Co-founded Trustworthy ML Initiative with the goal of enabling easy access to resources on trustworthy ML & to build a community of researchers/practitioners	2020
Hoopes Prize for undergraduate thesis mentoring, Harvard University	2020
Named as one of the 35 Innovators Under 35 by MIT Tech Review	2019
Named as one of the Innovators to Watch by Vanity Fair	2019
Selected for the prestigious Cowles Fellowship by Yale University (declined)	2018
INFORMS Data Mining Best Paper Award	2017
Microsoft Research Dissertation Grant	2017
Named as one of the Rising Stars in Computer Science	2016
Outstanding Reviewer Award International World Wide Web Conference (WWW)	2016
Google Anita Borg Fellowship in recognition of research and leadership	2015
Stanford Graduate Fellowship for exceptional academic performance Awarded to top 3% of Stanford Ph.D. students	2013-17
Eminence and Excellence Award for outstanding contributions to research IBM Research	2012
Research Division Award recognizing research contributions IBM Research	2012
Best Paper Award, SIAM International Conference on Data Mining (SDM)	2011
SPOT Award for outstanding product contributions Adobe Systems Pvt. Ltd.	2009
All India Rank 32 (99.82%ile) Graduate Aptitude Test in Engineering (GATE) Entrance examination for IISc & IITs in Computer Science & Engineering	2008
University Rank 10 , Bachelor of Engineering, Computer Science Out of 8000 students from 175 colleges	2007

Selected Grants & Fellowships

As Faculty

JP Morgan Faculty Research Award (US\$110,000) – Sole PI	2022 - 2024
D3 Institute at Harvard Grant (US\$600,000) – Sole PI	2022 - 2025
NSF-Amazon Fairness in AI (FAI) grant (US\$375,000) – co-PI	2021 - 2024
Amazon Faculty Research Award (US\$70,000) – Sole PI	2021 - 2024
Google AI for Social Good Research Award (US\$10,000) – Sole PI	2021 - 2022
Google Research Award (US\$600,000) – PI	2020 - 2024

NSF IIS: Robust Intelligence (RI) Small (US\$450,000) – Harvard PI	2020 - 2023
Bayer Trust in Science Award (US\$100,000) – PI	2020 - 2021

As Student

Microsoft Research Dissertation Grant (US\$20,000)	2017
Stanford Graduate Fellowship (tuition + US\$41,700 p.a.)	2013 - 2017
Google Anita Borg Scholarship (US\$10,000)	2015
Facebook Graduate Fellowship Finalist (US\$500)	2013
Indian Institute of Science Graduate Scholarship (tuition + Rs.96,000 p.a.)	2008 - 2010
SAP India Research Grant (Rs.150,000)	2009 - 2010

Research Articles

Total Citations: 4778

(* below indicates equal contribution)

Book Chapters

- [59] Analyzing Human Decisions and Machine Predictions in Bail Decision Making
Jon Kleinberg, Himabindu Lakkaraju, Jure Leskovec, Jens Ludwig, Sendhil Mullainathan
(author names are ordered alphabetically)
[The Inequality Reader: Contemporary and Foundational Readings in Race, Class, and Gender](#); Third Edition, 2022.

Articles in Peer-Reviewed Journals

- [58] Evaluating Explainability for Graph Neural Networks
Chirag Agarwal, Owen Queen, Himabindu Lakkaraju, Marinka Zitnik
[Nature Scientific Data](#) - 2023.
- [57] Human Decisions and Machine Predictions
Jon Kleinberg, Himabindu Lakkaraju, Jure Leskovec, Jens Ludwig, Sendhil Mullainathan
[QJE - Quarterly Journal of Economics](#), 2018.
(author names are ordered alphabetically)
Featured in MIT Technology Review, Harvard Business Review, The New York Times, and as Research Spotlight on National Bureau of Economics front page
- [56] Mining Digital Footprints to Extract Patterns and Predict Real-Life Outcomes
Michal Kosinski, Yilun Wang, Himabindu Lakkaraju, Jure Leskovec
[Psychological Methods](#) - 2016.

Articles in Peer-Reviewed Conference Proceedings

- [55] Which Explanation Should I Choose? A Function Approximation Perspective to Characterizing Post hoc Explanations
Tessa Han, Suraj Srinivas, Himabindu Lakkaraju
[NeurIPS - Advances in Neural Information Processing Systems \(NeurIPS\)](#), 2022.
Best Paper Award, ICML Workshop on Interpretable ML in Healthcare, 2022.
- [54] Flatten the Curve: Efficiently Training Low-Curvature Neural Networks
Suraj Srinivas, Kyle Matoba, Himabindu Lakkaraju, Francois Fleuret
[NeurIPS - Advances in Neural Information Processing Systems \(NeurIPS\)](#), 2022.
- [53] OpenXAI: Towards a Transparent Evaluation of Model Explanations
Chirag Agarwal, Satyapriya Krishna, Eshika Saxena, Martin Pawelczyk, Nari Johnson, Isha Puri, Marinka Zitnik, Himabindu Lakkaraju
[NeurIPS - Advances in Neural Information Processing Systems \(NeurIPS\)](#), 2022.
- [52] Data Poisoning Attacks on Off-Policy Evaluation Methods
Elita Lobo, Harvineet Singh, Marek Petrik, Cynthia Rudin, Himabindu Lakkaraju
[UAI - Conference on Uncertainty in Artificial Intelligence](#), 2022.
Oral Presentation (Top 5%)

- [51] Exploring Counterfactual Explanations Through the Lens of Adversarial Examples: A Theoretical and Empirical Analysis
Martin Pawelczyk, Chirag Agarwal, Shalmali Joshi, Sohini Upadhyay, Himabindu Lakkaraju
[AISTATS](#) - International Conference on Artificial Intelligence and Statistics, 2022.
- [50] Probing GNN Explainers: A Rigorous Theoretical and Empirical Analysis of GNN Explanation Methods
Chirag Agarwal, Marinka Zitnik*, Himabindu Lakkaraju*
[AISTATS](#) - International Conference on Artificial Intelligence and Statistics, 2022.
- [49] Fairness via Explanation Quality: Evaluating Disparities in the Quality of Post hoc Explanations
Jessica Dai, Sohini Upadhyay, Ulrich Aivodji, Stephen Bach, Himabindu Lakkaraju
[AIES](#) - AAAI/ACM Conference on AI, Ethics, and Society, 2022.
- [48] Towards Robust Off-Policy Evaluation via Human Inputs
Harvineet Singh, Shalmali Joshi, Finale Doshi-Velez, Himabindu Lakkaraju
[AIES](#) - AAAI/ACM Conference on AI, Ethics, and Society, 2022.
- [47] A Human-Centric Perspective on Model Monitoring
Murtuza N Shergadwala, Himabindu Lakkaraju, Krishnaram Kenthapadi
[HCOMP](#) - AAAI Conference on Human Computation and Crowdsourcing, 2022.
- [46] Towards Robust and Reliable Algorithmic Recourse
Sohini Upadhyay*, Shalmali Joshi*, Himabindu Lakkaraju
[NeurIPS](#) - Advances in Neural Information Processing Systems (NeurIPS), 2021.
Best Paper Runner Up, ICML Workshop on Algorithmic Recourse, 2021.
- [45] Reliable Post hoc Explanations: Modeling Uncertainty in Explainability
Dylan Slack, Sophie Hilgard, Sameer Singh, Himabindu Lakkaraju
[NeurIPS](#) - Advances in Neural Information Processing Systems, 2021.
- [44] Counterfactual Explanations Can Be Manipulated
Dylan Slack, Sophie Hilgard, Himabindu Lakkaraju, Sameer Singh
[NeurIPS](#) - Advances in Neural Information Processing Systems, 2021.
- [43] Learning Models for Algorithmic Recourse
Alexis Ross, Himabindu Lakkaraju, Osbert Bastani
[NeurIPS](#) - Advances in Neural Information Processing Systems, 2021.
- [42] Towards the Unification and Robustness of Perturbation and Gradient Based Explanations
Sushant Agarwal, Shahin Jabbari, Chirag Agarwal*, Sohini Upadhyay*, Steven Wu, Himabindu Lakkaraju
[ICML](#) - International Conference on Machine Learning, 2021.
Shorter version presented at Foundations of Responsible Computing ([FORC](#)), 2022.
- [41] Towards a Unified Framework for Fair and Stable Graph Representation Learning
Chirag Agarwal, Himabindu Lakkaraju*, Marinka Zitnik*
[UAI](#) - Conference on Uncertainty in Artificial Intelligence, 2021.
Oral Presentation (Top 5%)
- [40] Does Fair Ranking Improve Minority Outcomes? Understanding the Interplay of Human and Algorithmic Biases in Online Hiring
Tom Suhr, Sophie Hilgard, Himabindu Lakkaraju
[AIES](#) - AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society, 2021.
- [39] Fair influence maximization: A welfare optimization approach
Aida Rahmattalabi, Shahin Jabbari, Himabindu Lakkaraju, Phebe Vayanos, Eric Rice, Milind Tambe
[AAAI](#) - AAAI International Conference on Artificial Intelligence, 2021.
- [38] Beyond Individualized Recourse: Interpretable and Interactive Summaries of Actionable Recourses
Kaivalya Rawal, Himabindu Lakkaraju
[NeurIPS](#) - Advances in Neural Information Processing Systems, 2020.

- [37] Incorporating Interpretable Output Constraints in Bayesian Neural Networks
Wanqian Yang, Lars Lorch, Moritz Gaule, Himabindu Lakkaraju, Finale Doshi-Velez
[NeurIPS](#) - *Advances in Neural Information Processing Systems*, 2020.
Spotlight Presentation (Top 3%)
- [36] Robust and Stable Black Box Explanations
Himabindu Lakkaraju, Nino Arsov, Osbert Bastani
[ICML](#) - *International Conference on Machine Learning*, 2020
- [35] How do I fool you?: Manipulating User Trust via Misleading Black Box Explanations
Himabindu Lakkaraju, Osbert Bastani
[AIES](#) - *AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society*, 2020.
Oral Presentation (Top 16.6%)
- [34] Fooling LIME and SHAP: Adversarial Attacks on Post hoc Explanation Methods
Dylan Slack, Sophie Hilgard, Emily Jia, Sameer Singh, Himabindu Lakkaraju
[AIES](#) - *AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society*, 2020.
Featured in [Harvard Business Review](#) and [deeplearning.ai](#)
Best Paper (Non-Archival) at AAAI Workshop on Safe AI, 2020
Oral Presentation (Top 16.6%)
- [33] Faithful and Customizable Explanations of Black Box Models
Himabindu Lakkaraju, Ece Kamar, Rich Caruana, Jure Leskovec
[AIES](#) - *AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society*, 2019.
Oral Presentation (Top 10%)
- [32] The Selective Labels Problem: Evaluating Algorithmic Predictions in the Presence of Unobservables
Himabindu Lakkaraju, Jon Kleinberg, Jure Leskovec, Jens Ludwig, Sendhil Mullainathan
[KDD](#) - *ACM SIGKDD Conference on Knowledge Discovery and Data Mining*, 2017.
Oral Presentation (Top 8.5%)
- [31] Learning Cost-Effective and Interpretable Treatment Regimes
Himabindu Lakkaraju, Cynthia Rudin
[AISTATS](#) - *International Conference on Artificial Intelligence and Statistics*, 2017.
INFORMS Data Mining Best Paper Award, 2017
- [30] Identifying Unknown-Unknowns in the Open World: Representations and Policies for Guided Exploration
Himabindu Lakkaraju, Ece Kamar, Rich Caruana, Eric Horvitz
[AAAI](#) - *AAAI International Conference on Artificial Intelligence*, 2017.
Featured in [Bloomberg Technology](#)
- [29] Confusions over Time: An Interpretable Bayesian Model for Characterizing Trends in Decision Making
Himabindu Lakkaraju, Jure Leskovec
[NIPS](#) - *Advances in Neural Information Processing Systems*, 2016.
- [28] Interpretable Decision Sets: A Joint Framework for Description and Prediction
Himabindu Lakkaraju, Stephen Bach, Jure Leskovec
[KDD](#) - *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, 2016.
- [27] A Machine Learning Framework to Identify Students at Risk of Adverse Academic Outcomes
Himabindu Lakkaraju, Everaldo Aguiar, Carl Shan, David Miller, Nasir Bhanpuri, Rayid Ghani, Kecia Addison
[KDD](#) - *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, 2015.
Oral Presentation (Top 8.2%)
- [26] A Bayesian Framework for Modeling Human Evaluations
Himabindu Lakkaraju, Jure Leskovec, Jon Kleinberg, Sendhil Mullainathan
[SDM](#) - *SIAM International Conference on Data Mining*, 2015.
Oral Presentation (Top 5%)

- [25] Who, When, and Why: A Machine Learning Approach to Prioritizing Students at Risk of not Graduating High School on Time
Everaldo Aguiar, Himabindu Lakkaraju, Nasir Bhanpuri, David Miller, Ben Yuhas, Kecia Addison, Shihching Liu, Marilyn Powell and Rayid Ghani
[LAK](#) - *Learning Analytics and Knowledge Conference*, 2015.
- [24] What's in a name? Understanding the Interplay between Titles, Content, and Communities in Social Media
Himabindu Lakkaraju, Julian McAuley, Jure Leskovec
[ICWSM](#) - *International AAAI Conference on Weblogs and Social Media*, 2013.
Featured in Time, Forbes, Phys.Org, Business Insider, New Scientist
Oral Presentation (Top 3%)
- [23] Dynamic Multi-Relational Chinese Restaurant Process for Analyzing Influences on Users in Social Media
Himabindu Lakkaraju, Indrajit Bhattacharya, Chiranjib Bhattacharyya
[ICDM](#) - *IEEE International Conference on Data Mining*, 2012.
Oral Presentation (Top 8.6%)
- [22] Attention prediction on social media brand pages
Himabindu Lakkaraju, Jitendra Ajmera
[CIKM](#) - *ACM Conference on Information and Knowledge Management*, 2011.
- [21] Exploiting Coherence for the Simultaneous Discovery of Latent Facets and associated Sentiments
Himabindu Lakkaraju, Chiranjib Bhattacharyya, Indrajit Bhattacharya, Srujana Merugu
[SDM](#) - *SIAM International Conference on Data Mining*, 2011.
Best Paper Award
- [20] TEM: A novel perspective to modeling content on microblogs
Himabindu Lakkaraju, Hyung-Il-Ahn
[WWW](#) - *International World Wide Web Conference*, 2011.
- [19] Smart news feeds for social networks using scalable joint latent factor models
Himabindu Lakkaraju, Angshu Rai, Srujana Merugu
[WWW](#) - *International World Wide Web Conference*, 2011.

Preprints and Workshop Articles

- [18] The Disagreement Problem in Explainable Machine Learning: A Practitioner's Perspective [\[PDF\]](#) (under review)
Satyapriya Krishna, Tessa Han, Alex Gu, Shahin Jabbari, Steven Wu, Himabindu Lakkaraju
Preliminary version presented at CHI Workshop on Trust and Reliance in Human-AI Teams, 2022; **Featured in Fortune Magazine**
- [17] Rethinking Explainability as a Dialogue: A Practitioner's Perspective [\[PDF\]](#) (under review)
Himabindu Lakkaraju, Dylan Slack, Yuxin Chen, Chenhao Tan, Sameer Singh
Preliminary version presented at NeurIPS Workshop on Human-Centered AI, 2022
- [16] TalkToModel: Explaining Machine Learning Models with Interactive Natural Language Conversations [\[PDF\]](#) (under review)
Dylan Slack, Satyapriya Krishna, Himabindu Lakkaraju*, Sameer Singh*
Outstanding Paper Honorable Mention, NeurIPS Workshop on Trustworthy and Socially Responsible Machine Learning, 2022.
- [15] Probabilistically Robust Recourse: Navigating the Trade-offs between Costs and Robustness in Algorithmic Recourse [\[PDF\]](#) (under review)
Martin Pawelczyk, Teresa Datta, Johannes van den Heuvel, Gjergji Kasneci, Himabindu Lakkaraju
Preliminary version presented at ICLR PAIR2Struct Workshop, 2022
- [14] On the Impact of Adversarially Robust Models on Algorithmic Recourse [\[PDF\]](#) (under review)

Satyapriya Krishna, Chirag Agarwal, Himabindu Lakkaraju
Preliminary version presented at NeurIPS Workshop on Trustworthy and Socially Responsible ML, 2022

- [13] Rethinking Stability for Attribution-Based Explanations [\[PDF\]](#) (under review)
Chirag Agarwal, Nari Johnson, Martin Pawelczyk, Satyapriya Krishna, Eshika Saxena, Marinka Zitnik, Himabindu Lakkaraju
Preliminary version presented at ICLR PAIR2Struct Workshop, 2022
- [12] When Does Uncertainty Matter?: Understanding the Impact of Predictive Uncertainty in ML Assisted Decision Making [\[PDF\]](#) (under review)
Sean McGrath, Parth Mehta, Alexandra Zyteck, Isaac Lage, Himabindu Lakkaraju
Featured in VentureBeat
- [11] On the Privacy Risks of Algorithmic Recourse [\[PDF\]](#) (under review)
Martin Pawelczyk, Himabindu Lakkaraju*, Seth Neel*
- [10] Analyzing and Addressing Long-Term Impacts of Algorithmic Recourse on Social Segregation [\[PDF\]](#) (under review)
Ruijiang Gao, Himabindu Lakkaraju
- [9] When Algorithms Explain Themselves: AI Adoption and Accuracy of Experts' Decisions [\[PDF\]](#) (under review)
Himabindu Lakkaraju, Chiara Farronato
- [8] Can Model Explanations Help Reduce Biases in Real-World Decision Making? [\[PDF\]](#) (under review)
Himabindu Lakkaraju, Sarah Tan
- [7] On the Incompatibility between the Right to Explanation and the Right to Be Forgotten [\[PDF\]](#) (working paper)
Paul Hamilton, Davor Ljubenkov, Himabindu Lakkaraju
- [6] Evaluating the Disagreement between Local Explanations and Natural Language Rationales of Large Language Models [\[PDF\]](#) (working paper)
Satyapriya Krishna, Jiaqi Ma, Dylan Slack, Sameer Singh, Himabindu Lakkaraju
- [5] Evaluating Causal Reasoning Capabilities of Language Models [\[PDF\]](#) (working paper)
Isha Puri, Eric Horvitz, Himabindu Lakkaraju
- [4] An Empirical Study of the Trade-offs between Interpretability and Fairness [\[PDF\]](#)
Shahin Jabbari, Han-Ching Ou, Himabindu Lakkaraju, Milind Tambe
ICML Workshop on Human Interpretability in Machine Learning, 2020
- [3] Aspect Specific Sentiment Analysis using Hierarchical Deep Learning [\[PDF\]](#)
Himabindu Lakkaraju, Richard Socher, Christopher Manning
NIPS Workshop on Deep Learning and Representation Learning, 2014

Patents

- [2] Extraction and Grouping of Feature Words
Chiranjib Bhattacharyya, Himabindu Lakkaraju, Sunil Aravindam, Kaushik Nath
[US8484228 B2](#)
- [1] Enhancing knowledge bases using rich social media
Jitendra Ajmera, Shantanu Godbole, Himabindu Lakkaraju, Ashish Verma
[US20130224714 A1](#)

Advising & Mentoring

Current Advisees:

Jiaqi Ma, Postdoctoral Fellow, Harvard University	2022 - Present
Suraj Srinivas, Postdoctoral Fellow, Harvard University	2022 - Present
Tessa Han, PhD Student, Harvard University	2020 - Present
Satyapriya Krishna, PhD Student, Harvard University	2021 - Present
Dan Ley, PhD Student, Harvard University	2022 - Present
Alex Oesterling, PhD Student, Harvard University	2022 - Present

Usha Bhalla, PhD Student, Harvard University	2022 - Present
Dylan Slack, PhD Student, UC Irvine	2019 - Present
Martin Pawelczyk, PhD Student, University of Tübingen	2021 - Present
Isha Puri, Undergrad, Harvard University	2022 - Present
Eshika Saxena, Undergrad, Harvard University	2021 - Present
Davor Ljubenkov, Fullbright Scholar, Harvard University	2022 - Present

Past Advisees, Visitors, and Interns:

Chirag Agarwal, Postdoctoral Fellow, Harvard University	2020 - 2022
Shahin Jabbari, Postdoctoral Fellow, Harvard University	2019 - 2021
Umang Bhatt, PhD Student, University of Cambridge	2022
Anna Meyer, PhD Student, University of Wisconsin Madison	2022
Ruijiang Gao, PhD Student, University of Texas at Austin	2022
Vishwali Mhasawade, PhD Student, New York University	2022
Sophie Hilgard, PhD Student, Harvard University	2019 - 2021
Elita Lobo, PhD Student, University of Massachusetts, Amherst	2020 - 2021
Harvineet Singh, PhD Student, New York University	2020 - 2021
Kaivalya Rawal, MS Student, Harvard University	2019 - 2021
Aditya Karan, MS Student, Harvard University	2019 - 2020
Tom Suhr, MS Student, University of Tübingen	2020 - 2022
Javin Pombra, Undergrad, Harvard University	2021 - 2022
Ethan Kim, Undergrad, Harvard University	2021
Alexis Ross, Undergrad, Harvard University	2019 - 2021
Jorma Gorns, Undergrad, Harvard University	2019 - 2020
Emily Jia, Undergrad, Harvard University	2019 - 2020
Nino Arsov, Visiting Researcher, Stanford University	2016, 2019 - 2020
Rishabh Bhargava, MS Student, Stanford University	2015
Yilun Wang, MS Student, Stanford University	2014 - 2015

**Teaching
Experience**

Instructor, Interpretability and Explainability in ML Department of Computer Science, Harvard University First ever course on this emerging topic	2019 - 2023
A Short Course on Explainable Machine Learning Stanford Center for AI Safety	2022
Instructor, Technology and Operations Management Harvard Business School	2020 - 2022
Instructor, Introduction to ML for Social Scientists Harvard Business School	Spring 2020
Instructor, Explainable and Accurate AI for High-Stakes Decision Making Harvard Business Analytics Program (HBAP)	2020 - 2022
Guest Lecture, Evaluating ML Models in the Presence of Unobservables Stanford University: Counterfactuals: The Science of What Ifs?	Spring 2021
Guest Lecture, Explainable Machine Learning Harvard University: AI for Social Impact Course	Spring 2021
Guest Lecture, Explainable Machine Learning Carnegie Mellon University: Advanced Introduction to Machine Learning Course	Autumn 2020
Guest Lecture, Explainable Machine Learning in Practice Carnegie Mellon University: Human-AI Interaction Course	Autumn 2020
Guest Lecture, Introduction to Data Science, Stanford Law School	Spring 2016
Co-instructor, Probability with Mathemagics, Stanford University: Splash Initiative for High School Students	Spring 2016
Guest Lecture, Algorithms for Submodular Optimization	Winter 2016

	Stanford University: Mining Massive Data Sets Course	
	Co-instructor, Introduction to Python Programming	Spring 2015
	Stanford University: Girls Teaching Girls to Code (GTGTC) Initiative	
	Mathematics and Science Tutor	Winter 2015
	DreamCatchers Nonprofit Organization , Palo Alto	
	Teaching Assistant for	
	Stanford University: Mining Massive Data Sets Course	Winter 2016
	Stanford University: Social & Information Network Analysis Course	Autumn 2014
	Indian Institute of Science: Machine Learning Course	Autumn 2010
Tutorials	Model Monitoring in Practice: Lessons Learned and Open Challenges	KDD, FAccT 2022
	Explaining Machine Learning Predictions: State-of-the-art, Challenges, and Opportunities	AAAI 2021
	Explainable ML in the Wild: When Not to Trust Your Explanations	FAccT 2021
	Explainable ML: Understanding the Limits and Pushing the Boundaries	CHIL 2021
	Invited Tutorial	
	Explaining Machine Learning Predictions: State-of-the-art, Challenges, and Opportunities	NeurIPS 2020
Invited Talks & Panel Discussions	NeurIPS Workshop on Women in Machine Learning (WiML)	2022
	NeurIPS Workshop on Machine Learning for Health (ML4H)	2022
	ICLR Workshop on Privacy, Accountability, Interpretability, Robustness, Reasoning on Structured Data	2022
	CVPR Workshop on Explainable AI for Computer Vision	2022
	Keynote at WWW Workshop on Explainable AI in Health	2022
	ECCV Workshop on Adversarial Robustness in the Real World	2022
	Panel Discussion on AI and the Economy, Jointly Organized by U.S. Department of Commerce, NIST, Stanford HAI, and the FinRegLab	2022
	Simons Institute (Berkeley) Workshop on Societal Considerations and Applications	2022
	Stanford Center for AI Safety Workshop on Explainable AI	2022
	Stanford Human-Centered Artificial Intelligence (HAI) Conference	2022
	Stanford Digital Econ Seminar	2022
	MIT Initiative on the Digital Economy (IDE) Seminar Series	2022
	Harvard Data Science Initiative's Annual Conference	2022
	Berkman Klein Center, Harvard University	2022
	Amazon Alexa Rising Star Speaker Series	2022
	University of Southern California	2022
	Fireside Chat on Explainability, Fiddler AI	2022
	INFORMS Annual Meeting	2016 - 2022
	Keynote at ACM CIKM Conference	2021
	NIST AI Risk Management Framework Workshop	2021
	Pinterest Distinguished Lecture	2021
	NeurIPS Workshop on Algorithmic Fairness through the Lens of Causality and Robustness	2021
	NeurIPS Workshop on Explainable AI Approaches for Debugging and Diagnosis	2021
	NeurIPS Workshop on Human and Machine Decisions	2021
	Keynote at ICML Workshop on Interpretable ML in Healthcare	2021
	Keynote at KDD Workshop on ML in finance	2021
	AI for Good Summit organized by International Telecommunications Union & the United Nations	2021
	Keynote at CVPR Workshop on Responsible Computer Vision	2021
	Keynote at ICLR Workshop on Responsible AI	2021
	Keynote at ASPLOS Workshop on Systems Architecture for Robust, Safe, and Resilient Software	2021

Keynote at MLSys Workshop on Personalized Recommender Systems & Algorithms	2021
University of Cambridge	2021
Neurosym Webinar Series, Jointly Organized by UPenn, MIT, Caltech, and Stanford	2021
Voices of Data Science, UMass Amherst	2021
Max Planck Symposium on Computing and Society	2021
Keynote at CVPR Workshop on Fair, Data-Efficient and Trusted Computer Vision	2020
Keynote at MICCAI Workshop on Interpretability in Medical Imaging	2020
ETH - Center for Law and Economics, Zurich	2020
University of Michigan, Ann Arbor	2019
Harvard CRCS Seminar, Cambridge	2019
AI World Conference & Expo, Cambridge	2019
EmTech MIT Conference, Cambridge	2019
Google DeepMind Annual Summit, Cambridge	2019
Women in Machine Learning Workshop, Boston	2019
ICLR Workshop on Safe Machine Learning, New Orleans	2019
Harvard Data Science Conference, Cambridge	2018
South Park Commons, San Francisco	2018
Computer Science Departmental Seminars at Carnegie Mellon University, UIUC,	2018
Harvard University, Georgia Tech, Yale University, UC San Diego,	
USC, UCLA, UC Irvine, Duke University, Brown University,	
University of Michigan, University of Maryland	
Machine Learning Departmental Seminar at Carnegie Mellon University	2018
Operations Research Departmental Seminars at Columbia University,	2018
Cornell University, Princeton University	
NYU Stern School of Business, New York	2018
MIT Sloan School of Management, Cambridge	2018
Harvard Business School, Boston	2018
UC Berkeley School of Public Health, San Francisco	2018
Microsoft Research, Redmond	2017, 2018
IBM Thomas J. Watson Research Center, New York	2017
Machine Learning Seminar at Duke University, Durham	2017
Keynote at ICML Workshop on Automatic Machine Learning, Sydney, Australia	2017
Stanford Biomedical Data Science Lecture Series, Palo Alto	2017
Stanford Symbolic Systems Coffee Chat Series, Palo Alto	2017
Stanford Data Science Workshop, Palo Alto	2017
Rising Stars Workshop in EECS, Pittsburgh	2016
CodeX Center, Stanford Law School, Palo Alto	2016
KDD Workshop on Data Science for Social Good, New York	2014
University of Chicago Computation Institute, Chicago	2014
Grace Hopper India Chapter, Bangalore, India	2011

Community Service	Co-Founder & Chair: Trustworthy ML Initiative	2020 - Present
	We launched this initiative to enable easy access to resources on trustworthy ML, to showcase and promote the work of researchers from underrepresented groups, and to build a community of researchers and practitioners working on the topic.	
	Advisory Board Member:	2020 - Present
	Computational Antitrust Project, CODEX , The Stanford Center for Legal Informatics	
	Panelist and Reviewer:	2020 - Present
	4 National Science Foundation (NSF) Review Panels, Directorate for Computer and Information Science and Engineering (CISE)	
	Co-Chair:	
	KDD Trustworthy AI Day	2022
	ICML Workshop on New Frontiers in Adversarial Machine Learning	2022
	KDD Deep Learning Day	2021
	ICML Workshop on Algorithmic Recourse	2021
	ELLIS Human-Centric Machine Learning Workshop	2021
	Session on Trustworthy Machine Learning at INFORMS	2020

Session on Fairness in Machine Learning at INFORMS	2019
ICLR Workshop on Debugging Machine Learning Models	2019
Workshop for spreading awareness about STEM fields among middle school girls	2016
Stanford's Girls Teaching Girls To Code (GTGTC)	2015
Grace Hopper India Conference	2011

Sponsorship Chair:

FACCT - ACM Conference on Fairness, Accountability, and Transparency	2023
--	------

Area Chair:

NeurIPS - <i>Advances in Neural Information Processing Systems</i>	2019 - 2022
ICLR - <i>International Conference on Learning Representations</i>	2020 - 2023
AISTATS - <i>International Conference on Artificial Intelligence and Statistics</i>	2021 - 2023
ICML - <i>International Conference on Machine Learning</i>	2019 - 2022

Program Committee:

AISTATS - <i>International Conference on Artificial Intelligence and Statistics</i>	2019 - 2020
FACCT - ACM Conference on Fairness, Accountability, and Transparency	2019 - 2020
AAAI - AAAI International Conference on Artificial Intelligence	2019
ICML - <i>International Conference on Machine Learning</i>	2018
ICLR - <i>International Conference on Learning Representations</i>	2018 - 2019
IJCAI - <i>International Joint Conference on Artificial Intelligence</i>	2018 - 2019
WWW - <i>International World Wide Web Conference</i>	2017 - 2018
NIPS - <i>Advances in Neural Information Processing Systems</i>	2016 - 2017
KDD - ACM SIGKDD Conference on Knowledge Discovery and Data Mining	2015 - 2017
CIKM - ACM Conference on Information and Knowledge Management	2011, 2017
SDM - SIAM International Conference on Data Mining	2015
UAI - <i>Conference on Uncertainty in Artificial Intelligence</i>	2011
AAAI - AAAI conference on Artificial Intelligence	2011

Journal Reviewing and Editing:

Frontiers in Big Data (Associate Editor)	2021 - 2022
JMLR - <i>Journal of Machine Learning Research</i>	2020 - 2022
MS - <i>Management Science</i>	2021 - 2022
OR - <i>Operations Research</i>	2021 - 2022
TWEB - <i>ACM Transactions on the Web</i>	2017
PLOS ONE - <i>Public Library of Science ONE</i>	2017
TKDD - <i>ACM Transactions on Knowledge Discovery from Data</i>	2016
TKDE - <i>IEEE Transactions on Knowledge and Data Engineering</i>	2015

Other:

Member, Faculty Hiring Committee, Harvard University	2020 - 2022
Member, Ph.D. Student Selection Committee, Harvard University	2020 - 2022
Member, Ph.D. Student Selection Committee, Stanford University	2016

Selected Media Coverage

Fortune: [Explainable AI & The Disagreement Problem](#)
Harvard Business Review: [The AI transparency paradox](#)
MIT Technology Review: [How to upgrade judges with machine learning](#)
Harvard Business Review: [Solving social problems with machine learning](#)
The New York Times: [Even Imperfect Algorithms Can Improve the Criminal Justice System](#)
VentureBeat: [Confidence, uncertainty, and trust in AI affect how humans make decisions](#)
Wired: [This Agency Wants to Figure Out Exactly How Much You Trust AI](#)
Bloomberg Technology: [Researchers combat gender and racial bias in AI](#)
Forbes: [How to craft the perfect Reddit posting](#)
Time: [How to succeed on Reddit](#)
Business Insider: [How to execute the perfect Reddit submission](#)
Phys.org: [Stanford Trio explore success formula for Reddit posts](#)
International Business Times: [The secret to what makes something go viral](#)
New Scientist: [Things that make a meme explode](#)
The Verge: [The math behind successful Reddit submissions](#)
ACM TechNews: [Stanford trio explore success formula for Reddit posts](#)