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); tion; Applications of Al/ML to Decision Making in Healthcare, Law, and		nterac-
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	01/2020 - F	Present
	Fiddler AI AI Research Fellow	06/2021 - F	Present
	Harvard University Postdoctoral Fellow, Business School & Department of Computer Scien	11/2018 - 12/2019 Computer Science	
	Stanford University Research Assistant, Department of Computer Science	9/2012 - 9	9/2018
	Microsoft Research, Redmond Visiting Researcher	5/2017 - 6	5/2017
	Microsoft Research, Redmond Research Intern	6/2016 - 9	9/2016
	University of Chicago Data Science for Social Good Fellow	6/2014 - 8	3/2014
	IBM Research - India , Bangalore Research Engineer	7/2010 - 7	7/2012
	SAP Research , Bangalore Visiting Researcher	7/2009 - 3	3/2010
	Adobe Systems Pvt. Ltd., Bangalore Software Engineer	7/2007 - 7	7/2008
Education	Stanford University Ph.D. in Computer Science	9/2012 - 9	9/2018
	Thesis: Human-Centric Machine Learning: Enabling Machine Learning High-Stakes Decision Making	; for	
	Stanford University Master of Science (MS) in Computer Science	9/2012 - 9	9/2015
	Indian Institute of Science (IISc) Master of Engineering (MEng) in Computer Science & Automation	8/2008 - 7	7/2010
Selected Honors &	Best Paper Award, ICML Workshop on Interpretable ML in Healthcar	e	2022
Achievements	Outstanding Paper Honorable Mention, 2022 NeurIPS Workshop on Trustworthy and Socially Responsible Machine Learning		
	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
	Amazon Research Award	2021
	National Science Foundation (NSF) Amazon Fairness in Al Grant	2021
	Google AI for Social Good Research Award	2021
	Best Paper Runner Up, ICML Workshop on Algorithmic Recourse	2021
	Google 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/practitioner.	
	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	D'3 Institute at Harvard Grant (US\$600,000) – Sole PI NSF-Amazon Fairness in AI (FAI) grant (US\$375,000) – co-PI Amazon Faculty Research Award (US\$70,000) – Sole PI Google AI for Social Good Research Award (US\$10,000) – Sole PI Google Research Award (US\$600,000) – PI NSF IIS: Robust Intelligence (RI) Small (US\$450,000) – Harvard PI	2022 - 2024 2022 - 2025 2021 - 2024 2021 - 2024 2021 - 2022 2020 - 2024 2020 - 2023 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	2008 - 2010
(tuition + Rs.96,000 p.a.)	
SAP India Research Grant (Rs.150,000)	2009 - 2010

Research Articles

Total Citations: 4643

(* below indicates equal contribution)

Book Chapters

[58] 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 (Forthcoming).

Articles in Peer-Reviewed Journals

[57] Human Decisions and Machine Predictions Jon Kleinberg, Himabindu Lakkaraju, Jure Leskovec, Jens Ludwig, Sendhil Mullainathan OIE - 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

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 Re-

sponsible 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 Zytek, 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 Seggregation [PDF] (under review) Ruijiang Gao, Himabindu Lakkaraju
- [9] When Algorithms Explain Themselves: Al 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, Ben Roden 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

	awelczyk, PhD Student, University of Tubingen	2021 - Present
Isha Puri,	Undergrad, Harvard University	2022 - Present
	xena, Undergrad, Harvard University	2021 - Present
Davor Lju	ubenkov, Fullbright Scholar, Harvard University	2022 - Present
	isees, Visitors, and Interns:	
	garwal, Postdoctoral Fellow, Harvard University	2020 - 2022
	bbari, Postdoctoral Fellow, Harvard University	2019 - 2021
_	shatt, PhD Student, University of Cambridge	2022
	yer, PhD Student, University of Wisconsin Madison	2022
	Gao, PhD Student, University of Texas at Austin	2022
	Mhasawade, PhD Student, New York University	2022
•	lilgard, PhD Student, Harvard University	2019 - 2021
	p, PhD Student, University of Massachussetts, Amherst	2020 - 2021
	t Singh, PhD Student, New York University	2020 - 2021
•	Rawal, MS Student, Harvard University	2019 - 2021
•	aran, MS Student, Harvard University	2019 - 2020
	r, MS Student, University of Tubingen	2020 - 2022 2021 - 2022
	nbra, Undergrad, Harvard University	
	n, Undergrad, Harvard University oss, Undergrad, Harvard University	2021 2019 - 2021
	orns, Undergrad, Harvard University	2019 - 2020
-	Undergrad, Harvard University	2019 - 2020
	ov, Visiting Researcher, Stanford University	2019 - 2020
	Bhargava, MS Student, Stanford University	2015, 2015 - 2020
	ing, MS Student, Stanford University	2014 - 2015
Departme	r, Interpretability and Explainability in ML ent of Computer Science, Harvard University course on this emerging topic	2019 - 2023
	Course on Explainable Machine Learning Center for Al Safety	2022
	r, Technology and Operations Management Business School	2020 - 2022
	r, Introduction to ML for Social Scientists Business School	Spring 2020
	r, Explainable and Accurate AI for High-Stakes Decision Mak Business Analytics Program (HBAP)	ing 2020 - 2022
	cture, Evaluating ML Models in the Presence of Unobservabl University: Counterfactuals: The Science of What Ifs?	es Spring 2021
	cture, Explainable Machine Learning University: Al for Social Impact Course	Spring 2021
	cture, Explainable Machine Learning Mellon University: Advanced Introduction to Machine Learn	Autumn 2020 ning Course
	cture, Explainable Machine Learning in Practice Mellon University: Human-Al Interaction Course	Autumn 2020
Guest Lec	cture, Introduction to Data Science, Stanford Law School	Spring 2016
	ctor, Probability with Mathemagics, University: Splash Initiative for High School Students	Spring 2016
	cture, Algorithms for Submodular Optimization University: Mining Massive Data Sets Course	Winter 2016

Teaching Experience

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

	University of Cambridge	2021
	Neurosym Webinar Series, Jointly Organized by UPenn, MIT, Caltech, and Stanford	ord 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	
	Keynote at MICCAI Workshop on Interpretability in Medical Imaging	2020
	ETH - Center for Law and Economics, Zurich	2020
		2019
	University of Michigan, Ann Arbor	
	Harvard CRCS Seminar, Cambridge	2019
	Al 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 Harvard University, Georgia Tech, Yale University, UC San Diego,	2018
	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	2010
	·	2018
	NYU Stern School of Business, New York	
	MIT Sloan School of Management, Cambridge	2018
	Harvard Business School, Boston	2018
	UC Berkeley School of Public Health, San Francisco	2018
		017, 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
	Disruptive Innovation in Law Conference, Sydney, Australia	2017
	Rising Stars Workshop, 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
	Yahoo IR Summer School, Bangalore, India	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.	5,
	,) - Present
	Computational Antitrust Project, CODEX, The Stanford Center for Legal Informat	ICS
	Co-Chair:	2022
	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 Stanford's Girls Teaching Girls To Code (GTGTC) Grace Hopper India Conference		2016 2015 2011
Sponsorship Chair: FAccT - ACM Conference on Fairness, Accountability, and Transparency		2023
Area Chair: NeurIPS - Advances in Neural Information Processing Systems ICLR - International Conference on Learning Representations AISTATS - International Conference on Artificial Intelligence and Statistics ICML - International Conference on Machine Learning	2019 - 2020 - 2021 - 2019 -	2023 2023
Program Committee: AISTATS - International Conference on Artificial Intelligence and Statistics FAccT - ACM Conference on Fairness, Accountability, and Transparency AAAI - AAAI International Conference on Artificial Intelligence ICML - International Conference on Machine Learning ICLR - International Conference on Learning Representations IJCAI - International Joint Conference on Artificial Intelligence WWW - International World Wide Web Conference NIPS - Advances in Neural Information Processing Systems KDD - ACM SIGKDD Conference on Knowledge Discovery and Data Mining CIKM - ACM Conference on Information and Knowledge Management SDM - SIAM International Conference on Data Mining UAI - Conference on Uncertainty in Artificial Intelligence AAAI - AAAI conference on Artificial Intelligence	2018 - 2018 - 2017 - 2016 - 3 2015 - 2011,	2020 2019 2018 2019 2019 2018 2017 2017
Journal Reviewing and Editing: Frontiers in Big Data (Associate Editor) JMLR - Journal of Machine Learning Research MS - Management Science OR - Operations Research TWEB - ACM Transactions on the Web PLOS ONE - Public Library of Science ONE TKDD - ACM Transactions on Knowledge Discovery from Data TKDE - IEEE Transactions on Knowledge and Data Engineering Other: Member, Faculty Hiring Committee, Harvard University Member, Ph.D. Student Selection Committee, Harvard University	2020 - 2020 -	2022 2022 2022 2017 2017 2016 2015 2022 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

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