# Himabindu Lakkaraju

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	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 (Interpretability, Fairness, Robustness, a Language Models; Human-Al Interaction; Applications of Al/ML to Di Healthcare and Business.	,
Academic &	Harvard University	
Professional Experience	Assistant Professor, Harvard Business School Faculty Affiliate, Department of Computer Science, Harvard University	01/2020 - Present
	Postdoctoral Fellow	11/2018 - 12/2019
	Microsoft Research, Redmond	
	Visiting Researcher Research Intern	5/2017 - 6/2017 6/2016 - 9/2016
	University of Chicago	0/2010 - 3/2010
	Data Science for Social Good Fellow	6/2014 - 8/2014
	IBM Research, Bengaluru, India Research Engineer	7/2010 - 7/2012
	<b>Adobe</b> , Bengaluru, India Software Engineer	7/2007 - 6/2008
Education	Stanford University Ph.D. in Computer Science	9/2012 - 9/2018
	Stanford University Master of Science (MS) in Computer Science	9/2012 - 9/2015
	Indian Institute of Science (IISc) Master of Engineering (MEng) in Computer Science & Automation	8/2008 - 7/2010
Selected Honors &	Al2050 Early Career Fellowship by Schmidt Sciences	2024
Achievements	NSF CAREER Award	2023
	Named Kavli Fellow by the National Academy of Sciences	2023
	Adobe Data Science Research Award	2023
	Best Paper Award, ICML Workshop on Interpretable ML in Healthcare	
	Outstanding Paper Award Honorable Mention NeurIPS Workshop on Trustworthy and Socially Responsible Machine	2022
	JP Morgan Faculty Research Award	2022
	Selected as a member of the National Al Advisory Committee instituted by the US government (could not serve due to citizenship stat	2022

	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
	Amazon Research Award	2020
	Co-founded <b>Trustworthy ML Initiative</b> with the goal of enabling easy access tresources on trustworthy ML & to build a community of researchers/practition	
	Hoopes Prize for undergraduate thesis mentoring, Harvard University	2020
	Named as one of the 35 Innovators Under 35 (Global) by MIT Tech Review	2019
	Named as an Innovator to Watch by Vanity Fair	2019
	Selected for the prestigious <b>Cowles Fellowship</b> by Yale University (declined)	2018
	INFORMS Data Mining Best Paper Award	2017
	Microsoft Research Dissertation Grant	2017
	Named as a Rising Star 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
	<b>Stanford Graduate Fellowship</b> for exceptional academic performance Awarded to top 3% of Stanford Ph.D. students	2013-17
	<b>Eminence and Excellence Award</b> for outstanding research contributions IBM Research	2012
	Best Paper Award, SIAM International Conference on Data Mining (SDM)	2011
	All India Rank 32 (99.82%ile) Graduate Aptitude Test in Engineering (GATE) Entrance examination for IISc & IITs in Computer Science & Engineering	2008
Selected Grants	As Faculty	
& Fellowships	NSF CAREER Award (US\$550,664) – Sole PI Al2050 Early Career Fellowship by Schmidt Sciences (US\$300,00) – Sole PI Adobe Data Science Research Award (US\$50,000) – PI D'3 Institute at Harvard Grant (US\$600,000) – Sole PI JP Morgan Faculty Research Award (US\$110,000) – 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 Bayer Trust in Science Award (US\$100,000) – PI	2023 - 2028 2023 - 2026 2023 - 2024 2022 - 2025 2022 - 2024 2021 - 2024 2021 - 2022 2020 - 2024 2020 - 2023 2020 - 2021
	As Student  Microsoft Research Dissertation Grant (US\$20,000)  Stanford Graduate Fellowship (tuition + US\$41,700 p.a.)  Google Anita Borg Scholarship (US\$10,000)  Facebook Graduate Fellowship Finalist (US\$500)  Indian Institute of Science Graduate Scholarship	2017 2013 - 2017 2015 2013 2008 - 2010
	(tuition + Rs.96,000 p.a.)	

Research Articles Total Citations: 8655 h-index: 40 i10-index: 60

(\* below indicates equal contribution)

## **Book Chapters**

[77] 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**

[76] The Disagreement Problem in Explainable Machine Learning: A Practitioner's Perspective

Satyapriya Krishna\*, Tessa Han\*, Alex Gu, Steven Wu, Shahin Jabbari, Himabindu Lakkaraju

TMLR - Transactions on Machine Learning Research, 2024.

### **Featured in Fortune Magazine**

[75] TalkToModel: Explaining Machine Learning Models with Interactive Natural Language Conversations

Dylan Slack, Satyapriya Krishna, Himabindu Lakkaraju\*, Sameer Singh\* Nature Machine Intelligence - 2023.

Outstanding Paper Award Honorable Mention, NeurIPS Workshop on Trustworthy and Socially Responsible ML, 2022.

- [74] Evaluating Explainability for Graph Neural Networks Chirag Agarwal, Owen Queen, Himabindu Lakkaraju, Marinka Zitnik Nature Scientific Data - 2023.
- [73] When Does Uncertainty Matter?: Understanding the Impact of Predictive Uncertainty in ML Assisted Decision Making

Sean McGrath, Parth Mehta, Alexandra Zytek, Isaac Lage, Himabindu Lakkaraju TMLR - Transactions on Machine Learning Research, 2023.

### **Featured in VentureBeat**

[72] 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

[71] 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**

- [70] In-context Unlearning: Language Models as Few Shot Unlearners Martin Pawelczyk, Seth Neel, Himabindu Lakkaraju ICML - International Conference on Machine Learning, 2024.
- [69] Understanding the Effects of Iterative Prompting on Truthfulness Satyapriya Krishna, Chirag Agarwal, Himabindu Lakkaraju ICML International Conference on Machine Learning, 2024.
- [68] Characterizing Data Point Vulnerability as Average-Case Robustness Tessa Han, Suraj Srinivas, Himabindu Lakkaraju UAI - International Conference on Uncertainty in Artificial Intelligence, 2024.
- [67] Quantifying Uncertainty in Natural Language Explanations of Language Models Sree Harsha Tanneru, Chirag Agarwal, Himabindu Lakkaraju AISTATS - International Conference on Artificial Intelligence and Statistics, 2024. Spotlight Presentation, NeurIPS Workshop on Robustness of Few-shot and Zero-shot Learning in Foundation Models, 2023.
- [66] Fair Machine Unlearning: Data Removal while Mitigating Disparities Alex Oesterling, Jiaqi Ma, Flavio Calmon, Himabindu Lakkaraju AISTATS - International Conference on Artificial Intelligence and Statistics, 2024.
- [65] Certifying LLM Safety against Adversarial Prompting Aounon Kumar, Chirag Agarwal, Suraj Srinivas, Aaron Li, Soheil Feizi, Himabindu Lakkaraju COLM - Conference on Language Modeling, 2024
- [64] Investigating the Fairness of Large Language Models for Predictions on Tabular Data Yanchen Liu, Srishti Gautam, Jiaqi Ma, Himabindu Lakkaraju NAACL - The North American Chapter of the Association for Computational Linguistics, 2024.
- [63] A Study on the Calibration of In-context Learning Hanlin Zhang, Yi-Fan Zhang, Yaodong Yu, Dhruv Madeka, Dean Foster, Eric Xing, Himabindu Lakkaraju, Sham Kakade NAACL - The North American Chapter of the Association for Computational Linguistics, 2024.
- [62] On the Impact of Adversarially Robust Models on Algorithmic Recourse Satyapriya Krishna, Chirag Agarwal, Himabindu Lakkaraju AIES AAAI/ACM Conference on AI, Ethics, and Society, 2024.
- [61] Post hoc Explanations of Language Models can Improve Language Models Satyapriya Krishna, Jiaqi Ma, Dylan Slack, Asma Ghandeharioun, Sameer Singh, Himabindu Lakkaraju NeurIPS - Advances in Neural Information Processing Systems, 2023.
- [60] Which Models have Perceptually-Aligned Gradients? An Explanation via Off-Manifold Robustness

Suraj Srinivas\*, Sebastian Bordt\*, Himabindu Lakkaraju NeurIPS - Advances in Neural Information Processing Systems, 2023. **Spotlight Presentation (Top 3%)** 

- [59] Verifiable Feature Attributions: A Bridge between Post Hoc Explainability and Inherent Interpretability
  - Usha Bhalla\*, Suraj Srinivas\*, Himabindu Lakkaraju NeurlPS - Advances in Neural Information Processing Systems, 2023.
- [58] M4: A Unified XAI Benchmark for Faithfulness Evaluation of Feature Attribution Methods across Metrics, Modalities, and Models Xuhong Li, Mengnan Du, Jiamin Chen, Yekun Chai, Himabindu Lakkaraju, Haoyi
  - NeurlPS Advances in Neural Information Processing Systems, 2023.

- [57] Towards Bridging the Gaps between the Right to Explanation and the Right to be Forgotten
  - Satyapriya Krishna\*, Jiaqi Ma\*, Himabindu Lakkaraju ICML International Conference on Machine Learning, 2023.
- [56] On the Impact of Actionable Explanations on Social Segregation Ruijiang Gao, Himabindu Lakkaraju ICML - International Conference on Machine Learning, 2023.
- [55] On Minimizing the Impact of Dataset Shifts on Actionable Explanations Anna Meyer\*, Dan Ley\*, Suraj Srinivas, Himabindu Lakkaraju UAI - Conference on Uncertainty in Artificial Intelligence, 2023. Oral Presentation (Top 5%)
- [54] Probabilistically Robust Recourse: Navigating the Trade-offs between Costs and Robustness in Algorithmic Recourse Martin Pawelczyk, Teresa Datta, Johannes van den Heuvel, Gjergji Kasneci, Himabindu Lakkaraju ICLR - International Conference on Learning Representations, 2023.
- [53] On the Privacy Risks of Algorithmic Recourse Martin Pawelczyk, Himabindu Lakkaraju\*, Seth Neel\* AISTATS - International Conference on Artificial Intelligence and Statistics, 2023.
- [52] 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.
- [51] 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.
- [50] 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.
- [49] 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%)
- [48] 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.
- [47] 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.
- [46] 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.
- [45] 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.
- [44] A Human-Centric Perspective on Model Monitoring Murtuza N Shergadwala, Himabindu Lakkaraju, Krishnaram Kenthapadi HCOMP - AAAI Conference on Human Computation and Crowdsourcing, 2022.

- [43] 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.
- [42] Reliable Post hoc Explanations: Modeling Uncertainty in Explainability Dylan Slack, Sophie Hilgard, Sameer Singh, Himabindu Lakkaraju NeurlPS Advances in Neural Information Processing Systems, 2021.
- [41] Counterfactual Explanations Can Be Manipulated Dylan Slack, Sophie Hilgard, Himabindu Lakkaraju, Sameer Singh NeurIPS - Advances in Neural Information Processing Systems, 2021.
- [40] Learning Models for Algorithmic Recourse Alexis Ross, Himabindu Lakkaraju, Osbert Bastani NeurIPS - Advances in Neural Information Processing Systems, 2021.
- [39] 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.
- [38] 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%)
- [37] 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.
- [36] 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.
- [35] Beyond Individualized Recourse: Interpretable and Interactive Summaries of Actionable Recourses
  Kaivalya Rawal, Himabindu Lakkaraju
  NeurIPS Advances in Neural Information Processing Systems, 2020.
- [34] 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%)
- [33] Robust and Stable Black Box Explanations Himabindu Lakkaraju, Nino Arsov, Osbert Bastani ICML - International Conference on Machine Learning, 2020
- [32] 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%)
- [31] 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%)

- [30] 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%)
- [29] 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%)** 

- [28] 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
- [27] 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**

- [26] 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.
- [25] 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.
- [24] 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%)**

- [23] 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%)
- [22] 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.
- [21] 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%)

[20] 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%)** 

- [19] Attention prediction on social media brand pages Himabindu Lakkaraju, Jitendra Ajmera CIKM - ACM Conference on Information and Knowledge Management, 2011.
- [18] 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
- [17] TEM: A novel perspective to modeling content on microblogs Himabindu Lakkaraju, Hyung-Il-Ahn WWW International World Wide Web Conference, 2011.
- [16] 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.

### Selected Preprints, Working Papers, and Workshop Articles

- [15] Interpreting CLIP with Sparse Linear Concept Embeddings (SpLiCE) [PDF] (under review) Usha Bhalla, Alex Oesterling, Suraj Srinivas, Flavio Calmon, Himabindu Lakkaraju
- [14] On the Hardness of Faithful Chain-of-Thought Reasoning in Large Language Models [PDF] (under review)

  Sree Harsha Tanneru, Dan Ley, Chirag Agarwal, Himabindu Lakkaraju
- [13] Towards Safe Large Language Models for Medicine [PDF] (under review) Tessa Han, Aounon Kumar, Chirag Agarwal, Himabindu Lakkaraju
- [12] Are Large Language Models Post Hoc Explainers? [PDF] (under review) Nicholas Kroeger, Dan Ley, Satyapriya Krishna, Chirag Agarwal, Himabindu Lakkaraju Preliminary version presented at NeurIPS Workshop on XAI in Action: Past, Present, and Future Applications, 2023.
- [11] Accurate, Explainable, and Private Models: Providing Recourse While Minimizing Training Data Leakage [PDF] (under review)

  Catherine Huang, Chelsea Swoopes, Christina Xiao, Jiaqi Ma, Himabindu Lakkaraju Preliminary version presented at ICML Workshop on New Frontiers in Adversarial Machine Learning, 2023.
- [10] Manipulating Large Language Models to Increase Product Visibility [PDF] (working paper) Aounon Kumar, Himabindu Lakkaraju
- [9] Operationalizing the Blueprint for an Al Bill of Rights: Recommendations for Practitioners, Researchers, and Policy Makers [PDF] (working paper)

  Alex Oesterling, Usha Bhalla, Suresh Venkatasubramanian, Himabindu Lakkaraju
- [8] When Algorithms Explain Themselves: Al Adoption and Accuracy of Experts' Decisions (working paper)
  Himabindu Lakkaraju, Chiara Farronato
- [7] Can Model Explanations Help Reduce Biases in Real-World Decision Making? (working paper) Himabindu Lakkaraju, Paul Hamilton, Sarah Tan
- [6] Enforcing Right to Explanation: Bridging the Gaps between ML Research and Policy (working paper) Himabindu Lakkaraju, Jiaqi Ma
- [5] On the Incompatibility Between AI Regulatory Guidelines (working paper) Paul Hamilton, 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:**

Aounon Kumar, Postdoctoral Fellow, Harvard University	2023 - Present
Martin Pawelczyk, Postdoctoral Fellow, Harvard University	2023 - Present
Shichang Zhang, Postdoctoral Fellow, Harvard University	2024 - Present
Tessa Han, PhD Student, Harvard Medical School	2020 - Present
Satyapriya Krishna, PhD Student, Harvard CS	2021 - Present
Dan Ley, PhD Student, Harvard CS	2022 - Present
Alex Oesterling, PhD Student, Harvard CS	2022 - Present
Usha Bhalla, PhD Student, Harvard CS	2022 - Present
Zidi Xiong, PhD Student, Harvard CS	2024 - Present
Paul Hamilton, PhD Student, Harvard Business School	2023 - Present
Elita Lobo, PhD Student, UMass Amherst CS	2023 - Present
Aaron Li, Masters Student, Harvard University	2023 - Present
Yanchen Liu, Masters Student, Harvard University	2023 - Present
Charu Badrinath, Undergrad, Harvard University	2023 - Present
Eric Shen, Undergrad, Harvard University	2023 - Present
Catherine Huang, Undergrad, Harvard University	2023 - Present
Christina Xiao, Undergrad, Harvard University	2023 - Present

#### Past Advisees and Interns:

Jiaqi Ma (Postdoc, Harvard University => Assistant Professor, UIUC)
Chirag Agarwal (Postdoc, Harvard University => Assistant Professor, University of Virginia)
Suraj Srinivas (Postdoc, Harvard University => Research Scientist, Robert Bosch AI)
Dylan Slack (PhD, UC Irvine => Research Scientist, Scale AI)
Aditya Karan (MS, Harvard University => PhD Student, UIUC CS)
Sree Harsha Tanneru (MS, Harvard University => Research Engineer, Google DeepMind)
Kaivalya Rawal (MS, Harvard University => Research Fellow, Oxford University)
Alexis Ross (Undergraduate, Harvard University => PhD Student, MIT EECS)
Isha Puri (Undergraduate, Harvard University => PhD Student, MIT EECS)
Emily Jia (Undergraduate, Harvard University => Data Scientist, Figma)
Umang Bhatt (Research Intern, Harvard University => Assistant Professor, NYU CDS)
Ruijiang Gao (Research Intern, Harvard University => Postdoc, UCSF/UC Berkeley)
Jessica Dai (Research Intern, Harvard University => PhD Student, UC Berkeley EECS)
Tom Suhr (Research Intern, Harvard University => PhD Student, Max Planck Institute)

# Teaching Experience

Instructor, Explainable Artificial Intelligence
Department of Computer Science, Harvard University
(First ever full-fledged course on this topic)

2020 - Present

2019, 2021, 2023

Instructor, Introduction to Data Science and Machine Learning

Instructor, A Short Course on Explainable Machine Learning 2022 Stanford Center for AI Safety Instructor, Introduction to ML for Social Scientists Spring 2020 Harvard Business School & Department of Computer Science Instructor, Explainable and Accurate AI for High-Stakes Decision Making 2020 - 2023 Harvard Online Analytics Program Guest Lecture, Explainable ML in the Era of Foundation Models Spring 2024 Cornell University: Algorithmic Fairness Course Guest Lecture, User Evaluations in Explainable Machine Learning Spring 2023 UC Berkeley: Human-Centered Al Course Guest Lecture, Explainable ML in the Era of Foundation Models Spring 2023 Carnegie Mellon University: Trustworthy Al Course Guest Lecture, Evaluating ML Models in the Presence of Unobservables Spring 2021 Stanford University: Counterfactuals: The Science of What Ifs? Guest Lecture, An Overview of Explainable Machine Learning Spring 2021 Harvard University: Al for Social Impact Course Guest Lecture, Algorithms for Explainable Machine Learning Autumn 2020 Carnegie Mellon University: Advanced Introduction to Machine Learning Course Guest Lecture, Explainable Machine Learning in Practice Autumn 2020 Carnegie Mellon University: Human-Al Interaction Course Spring 2016 Guest Lecture, Introduction to Data Science, Stanford Law School 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 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** Trustworthy Machine Learning in the Era of Foundation Models ICML, FAccT, KDD 2023 Model Monitoring in Practice: Lessons Learned and Open Challenges KDD, FAccT 2022 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:** NeurIPS 2020, AAAI 2021 State-of-the-art, Challenges, and Opportunities **Invited Talks** Princeton University Workshop on Understanding in Natural and Artificial Minds 2024 Johns Hopkins CS Seminar Series 2024 **US Securities and Exchange Commission** 2024 MIT Data Science Seminar Series 2024 UPenn Center for Safe, Explainable, and Trustworthy AI Seminar Series 2024 AAAI Workshop on Privacy-Preserving Artificial Intelligence 2024 NSF Workshop on Advanced Automated Systems, Contestability, and the Law 2024 Google, Stanford, and UW Madison Workshop on Securing the Future of GenAl 2023 Yale and Google Joint Workshop on Theory and Practice of Foundation Models 2023

Harvard Business School

ICML Workshop on Interpretable ML in Healthcare	2023
ICML Workshop on Counterfactuals in Minds and Machines	2023
ICLR Workshop on Trustworthy & Reliable Large-Scale Machine Learning Models	2023
RSS Workshop on Safe Autonomy	2023
Mind and Machine Intelligence Summit, UC Santa Barbara	2023
Cornell University and Weill Cornell Medicine	2023
Kavli Frontiers of Science Symposium	2023
Cohere Al	2023
<b>Keynote</b> at AAAI Workshop on Representation Learning for	2023
Responsible Human-Centric Al	_0_0
<b>Keynote</b> at AAAI Workshop on Deployable AI	2023
, , ,	- 2023
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,	2022
Reasoning on Structured Data	2022
CVPR Workshop on Explainable AI for Computer Vision	2022
<b>Keynote</b> 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	2022
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 Al Safety Workshop on Explainable Al	2022
Stanford Human-Centered Artificial Intelligence (HAI) Conference	2022
<u> </u>	2022
Stanford Digital Econ Seminar	
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 Al	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	2021
Causality and Robustness	
NeurIPS Workshop on Explainable AI Approaches for Debugging and Diagnosis	2021
NeurIPS Workshop on Human and Machine Decisions	2021
<b>Keynote</b> at ICML Workshop on Interpretable ML in Healthcare	2021
Keynote at KDD Workshop on ML in finance	2021
Al for Good Summit organized by International Telecommunications Union &	2021
the United Nations	
<b>Keynote</b> at CVPR Workshop on Responsible Computer Vision	2021
<b>Keynote</b> at ICLR Workshop on Responsible AI	2021
<b>Keynote</b> at ASPLOS Workshop on Systems Architecture for Robust, Safe,	2021
and Resilient Software	
<b>Keynote</b> at MLSys Workshop on Personalized Recommender Systems & Algorithms	2021
University of Cambridge	2021
Neurosym Webinar Series, Jointly Organized by UPenn, MIT, Caltech, and Stanford	
Voices of Data Science, UMass Amherst	2021
Max Planck Symposium on Computing and Society	2021
<b>Keynote</b> at CVPR Workshop on Fair, Data-Efficient and Trusted Computer Vision	2020
<b>Keynote</b> 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
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, UII	JC, 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	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
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	a 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
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We launched this initiative to enable easy access to resources on trustworthy	)20 - Present ML,
We launched this initiative to enable easy access to resources on trustworthy to showcase and promote the work of researchers from underrepresented groups.	020 - Present ML, ups,
We launched this initiative to enable easy access to resources on trustworthy	020 - Present ML, ups,
We launched this initiative to enable easy access to resources on trustworthy to showcase and promote the work of researchers from underrepresented ground to build a community of researchers and practitioners working on the top.  Panelist and Reviewer:	020 - Present ML, ups,
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**Community Service** 

2019 - 2024

ICML - International Conference on Machine Learning

NeurIPS - Advances in Neural Information Processing Systems	2019 - 2023
ICLR - International Conference on Learning Representations	2020 - 2023
AISTATS - International Conference on Artificial Intelligence and Statistics	2021 - 2023
Program Committee:	
AISTATS - International Conference on Artificial Intelligence and Statistics	2019 - 2020
FAccT - ACM Conference on Fairness, Accountability, and Transparency	2019 - 2020
AAAI - AAAI International Conference on Artificial Intelligence	2019
ICML - International Conference on Machine Learning	2018
ICLR - International Conference on Learning Representations	2018 - 2019
IJCAI - International Joint Conference on Artificial Intelligence	2018 - 2019
WWW - International World Wide Web Conference	2017 - 2018
NIPS - Advances in Neural Information Processing Systems	2016 - 2017
KDD - ACM SIGKDD Conference on Knowledge Discovery and Data Mining	g 2015 - 2017
CIKM - ACM Conference on Information and Knowledge Management	2011, 2017
SDM - SIAM International Conference on Data Mining	2015
UAI - Conference on Uncertainty in Artificial Intelligence	2011
AAAI - AAAI conference on Artificial Intelligence	2011
Journal Reviewing and Editing:	
Frontiers in Big Data (Associate Editor)	2021 - 2023
JMLR - Journal of Machine Learning Research	2020 - 2023
JMLR - Journal of Machine Learning Research MS - Management Science	2020 - 2023 2021 - 2023
MS - Management Science OR - Operations Research TWEB - ACM Transactions on the Web	2021 - 2023
MS - Management Science OR - Operations Research TWEB - ACM Transactions on the Web PLOS ONE - Public Library of Science ONE	2021 - 2023 2021 - 2023 2017 2017
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	2021 - 2023 2021 - 2023 2017 2017 2016
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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	2021 - 2023 2021 - 2023 2017 2017 2016
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	2021 - 2023 2021 - 2023 2017 2017 2016
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:	2021 - 2023 2021 - 2023 2017 2017 2016 2015
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 Business School	2021 - 2023 2021 - 2023 2017 2017 2016 2015

## Selected Media Coverage

TIME: Chuck Schumer wants AI to be explainable. It's harder than it sounds Science News: AI chatbots can be tricked into misbehaving. Can scientists stop it?

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 Al Bloomberg Technology: Researchers combat gender and racial bias in Al

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