Umang Bhatt

Contact Information	usb20@cam.ac.uk umangsbhatt.github.io	
Education	 University of Cambridge, Cambridge, UK Ph.D. in Engineering (Machine Learning) Advisor: Adrian Weller Affiliations: Machine Learning Group, Computation and Biological 	Sept 2019 – Present Learning Lab
	Carnegie Mellon University, Pittsburgh, PA M.S. in Electrical and Computer Engineering • Advisor: José M.F. Moura	Aug 2017 – May 2019
	B.S. in Electrical and Computer Engineering	Aug 2015 – May 2019
Positions	Enrichment Student, The Alan Turing Institute	Starting Jan 2021
	Fellow, Mozilla Foundation	Oct 2020 – Present
	Student Fellow, Leverhulme Center for the Future of Intelligence	Sept 2019 – Present
	PhD Candidate, University of Cambridge	Sept 2019 – Present
	Research Fellow, Partnership on AI	May 2019 – Present
	Research Assistant, Carnegie Mellon University • Mentors and Collaborators: Pradeep Ravikumar (MLD), Zico Kolter (C Radu Marculescu (ECE)	Jan 2017 – Aug 2019 SD), Fei Fang (ISR), and
Fellowships, Awards, and Honors	Mozilla Fellowship The Alan Turing Institute Enrichment Studentship Leverhulme Center for the Future of Intelligence PhD Scholarship Fully funded by DeepMind and the Leverhulme Trust Partnership on AI Research Fellowship Lovett Family Endowed Scholarship, The Andrew Carnegie Society Undergraduate Research Presentation Award, CMU NSF I-Corps Site Award, for research commercialization H. F. McCullough Memorial Scholarship, CMU	2020 - 2021 2020 - 2021 2019 - 2022 2019 - 2021 2019 2017 2017 2016
PEER-REVIEWED CONFERENCE PUBLICATIONS	[1] Evaluating and Aggregating Feature-based Explanations International Joint Conference on Artificial Intelligence (IJCAI) 2020 Umang Bhatt, Adrian Weller, José M.F. Moura	
	[2] Explainable Machine Learning in Deployment ACM Conference on Fairness, Accountability, and Transparency (FAccT Umang Bhatt, Alice Xiang, Shubham Sharma, Adrian Weller, Ankur T Ghosh, Ruchir Puri, José M.F. Moura, Peter Eckersley	
	[3] You Shouldn't Trust Me: Learning Models Which Conceal Unfa Explanation Methods European Conference on Artificial Intelligence (ECAI) 2020 Botty Dimanov, <i>Umang Bhatt</i> , Mateja Jamnik, Adrian Weller	airness From Multiple
	[4] On Network Science and Mutual Information for Explaining D IEEE Conference on Acoustics, Speech and Signal Processing (ICASSP) 2 Brian Davis*, Umang Bhatt*, Kartikeya Bhardwaj*, Radu Marculescu	020

[5] A Robot's Expressive Language Affects Human Strategy and Perceptions in a Competitive Game

IEEE Conference on Robot and Human Interactive Communication (ROMAN) 2019 Aaron Roth, Samantha Reig, Umang Bhatt, Johnathan Schulgach, Tamara Amin, Afsaneh Doryab, Fei Fang, Manuela Veloso

[6] Intelligent Pothole Detection and Road Condition Assessment

Bloomberg Data for Good Exchange (D4GX) 2017 Umang Bhatt, Edgar Xi, Shouvik Mani, J. Zico Kolter

BOOK CHAPTERS

[7] On Trustworthy Artificial Intelligence for Healthcare

Healthcare Information Technology for Cardiovascular Medicine. Ed: A. Maniar. Springer 2020 Umang Bhatt, Zohreh Shams

Publications

SELECT WORKSHOP [8] Machine Learning Explainability for External Stakeholders

IJCAI Workshop on Explainable AI 2020

Umang Bhatt, McKane Andrus, Alice Xiang, Adrian Weller

[9] Getting a CLUE: A Method for Explaining Uncertainty Estimates

ICLR Workshop on Machine Learning in Real Life 2020 (Oral)

Javier Antorán, Umang Bhatt, Tameem Adel, Adrian Weller, José Miguel Hernández-Lobato

[10] Counterfactual Accuracies for Alternative Models

ICLR Workshop on Machine Learning in Real Life 2020

Umang Bhatt, Adrian Weller, Muhammad Bilal Zafar, Krishna Gummadi

[11] Diagnostic Model Explanations: A Medical Narrative

AAAI Spring Symposium on Interpretable AI for Well-Being 2019 (Best Presentation Award) Umang Bhatt, Brian Davis, José M.F. Moura

[12] Building Human-Machine Trust via Interpretability (Extended Abstract)

AAAI Conference on Artificial Intelligence (AAAI) 2019 Umang Bhatt, Pradeep Ravikumar, José M.F. Moura

[13] Maintaining the Humanity of Our Models

AAAI Spring Symposium on AI, Society, and Ethics 2018 **Umang Bhatt**

INVITED TALKS

Challenges in Deploying Explainable Machine Learning

July 2020
July 2020
May 2020
Sept 2020
June 2020
Jan 2020
May 2019
Apr 2019
Mar 2019
Dec 2018
Oct 2018
Mar 2018
Oct 2017
Sept 2017

TEACHING EXPERIENCE	 Thesis Co-Supervisor, University of Cambridge Daniel Ley, MEng Thesis Teaching Assistant, Carnegie Mellon University Machine Learning for Engineers - Masters (18-661) for Gauri Joshi Machine Learning - PhD (10-701) for Ziv Bar-Joseph and Pradeep Ravikum Practical Data Science (15-688) for Zico Kolter Principles of Imperative Computation (15-122) for Illiano Cervesato Principles of Computing (15-110) for Margret Reid-Miller 	Aug 2020 – Present Spring 2019 nar Fall 2018 Spring 2018 Fall 2017 Spring 2017
Professional Service	 Co-Organizer ICML Workshop on Human Interpretability in Machine Learning IBM + Partnership on AI Workshop on Explainable AI 	July 2020 Feb 2020
	 Program Committee ACM Conference on Fairness, Accountability, and Transparency (FAccT) Conference on Artificial Intelligence (AAAI) International Conference on Learning Representations (ICLR) Conference on Neural Information Processing Systems (NeurIPS) ACM Conference on AI and Finance (ICAIF) ICLR Workshop on Debugging Machine Learning Models Reviewer IEEE Transactions on Artificial Intelligence 	2021 2021 2021 2020 2020 2019
Professional Experience	 Creating an AI auditing platform - in stealth Student Fellow, .406 Ventures, Boston, MA Sourced startups and performed first-round due diligence on ventures Program Management Intern, Microsoft, Redmond, WA Project: explainable conversational agents for technical hardware docume Co-Founder, Percepsense, Pittsburgh, PA Built products to harvest vehicular telematics data; pipeline acquired by International States 	Jan 2017 - May 2018
	• Project: personalized and targeted pricing algorithms to drive purchase for	requency June 2016 – Sept 2016