

Usha Bhalla

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EDUCATION	Harvard University <i>Ph.D. in Computer Science</i> <i>Advised by Prof. Hima Lakkaraju</i>	2022 – Present GPA: 4.00
	Brown University <i>Sc.B. in Computer Science, with Honors</i> <i>Magna Cum Laude, highest honor awarded at Brown</i> <i>Advised by Prof. Chen Sun</i>	2018 – 2022 GPA: 4.00
FELLOWSHIPS & AWARDS	Kempner Institute Graduate Research Fellowship <i>Full funding for tuition and stipend from second through sixth year of graduate studies</i>	2023
	Brown CS Senior Award , Brown <i>Monetary prize awarded for “academic accomplishments as well as service to the department”</i>	2022
	Sigma Xi <i>International science and engineering honor society member with high academic standing and research potential.</i>	2022
INVITED TALKS	INFORMS Annual Meeting	10/2024
	Kempner Institute All-Hands Meeting	01/2025
PUBLICATIONS	U. Bhalla, S. Srinivas, A. Ghandeharioun, H. Lakkaraju. “Towards Unifying Interpretability and Control: Evaluation via Intervention” <i>Under review, PDF upon request</i> , 2024	
	U. Bhalla*, A. Oesterling*, S. Srinivas, F. P. Calmon, H. Lakkaraju. “Interpreting CLIP with Sparse Linear Concept Embeddings (SpLiCE)” <i>NeurIPS 2024</i> , 2024	
	A. Oesterling*, U. Bhalla*, S. Venkatasubramanian, H. Lakkaraju. “Operationalizing the Blueprint for an AI Bill of Rights: Recommendations for Practitioners, Researchers, and Policy Makers” <i>Preprint</i> , 2024	
	J. So*, U. Bhalla*, S. Warchol*, H.B. Tedasse, H. Das, K. Gajos. “Patient & Provider Centered Trustworthy ML: An Interview Study on Birth Control Recommendation Systems” <i>Preprint, PDF upon request</i> , 2024	
	U. Bhalla*, S. Srinivas*, H. Lakkaraju. “Discriminable Feature Attributions: A Bridge between Post Hoc Explainability and Inherent Interpretability” <i>NeurIPS</i> , 2023	
	C. Badrinath, U. Bhalla, A. Oesterling, S. Srinivas, H. Lakkaraju. “All Roads Lead to Rome? Exploring Representational Similarities Between Latent Spaces of Generative Image Models” <i>ICML 2024 Workshops GRaM, SPIGM, HiLD</i> , 2024	
	T. Yun, U. Bhalla, E. Pavlick, C. Sun. “Do Vision-Language Pretrained Models Learn Compositional Concepts?” <i>TMLR</i> , 2023	

U. Bhalla*, N. Sehgal*, I. Puri*. “Reconsidering the Algorithmic Fairness of Race Adjustment in Pulmonary Function Equations” *AAAI AI For Social Good Workshop*, 2023

N. Semmineh*, **U. Bhalla***, L. Bell, A. Stokes, M. Lee, L. Hu, J.L. Boxerman, C. Quarles. “Analysis of Accuracy and Precision of Recommended Protocols for Dynamic Susceptibility Contrast MRI for Brain Metastases.” *ISMRM 2020*.

** denotes equal contribution*

RESEARCH EXPERIENCE	Microsoft Research <i>Research Intern</i>	Summer 2021
	NSF REU - Rosetta Commons <i>REU Fellow</i>	Summer 2020
	Barrow Neurological Institute <i>Research Intern, Translation Bioimaging Lab</i>	Summer 2019
TEACHING	Graduate Teaching Fellow <i>APCOMP 297R - Computational Science and Engineering Capstone</i>	Fall 2023
	Head Undergraduate Teaching Assistant <i>CS1470 - Deep Learning</i> <i>CS0030 - CS for Social Sciences</i>	Fall 2021
		Fall 2020
	Undergraduate Teaching Assistant <i>CS0220 - Discrete Math and Probability</i>	Spring 2021
SERVICE & MENTORING	Program Chair / Organizer NeurIPS Workshop on Regulatable ML	2023, 2024
	Reviewer NeurIPS, ICLR, ICML	2024
	Program Committee ICML Workshop on Mechanistic Interpretability NeurIPS Workshop on XAI in Action NeurIPS Workshop on Attribution at Scale	2024
		2023, 2024
		2023, 2024
	Mentoring Women in STEM Mentor (Harvard)	2022 - Present
	Women in Science & Engineering Mentor (Brown)	2020 - 2022
	Women in Computer Science Mentor (Brown)	2020 - 2022