Harmanpreet Kaur

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Employment

09/2023 – present	University of Minnesota - Twin Cities . Minneapolis, MN Assistant Professor, Department of Computer Science & Engineering
05/2020 - 08/2020	Allen Institute for Artificial Intelligence. Seattle, WA Research Intern, Semantic Scholar Team Mentors: Jonathan Bragg, Doug Downey, Dan Weld
05/2019 – 08/2019	Microsoft Research. New York City, NY Research Intern, Fairness, Accountability, Transparency and Ethics in AI Team Mentors: Jenn Wortman Vaughan, Hanna Wallach, Rich Caruana
05/2018 - 08/2018	Microsoft Research. Redmond, WA Research Intern, Information and Data Sciences Group Mentors: Shamsi Iqbal, Jaime Teevan
05/2017 – 08/2017	Microsoft Research. Redmond, WA Research Intern, Productivity Team Mentors: Shamsi Iqbal, Jaime Teevan
05/2015 - 08/2015	Epic Systems Corporation . Verona, WI Software Development Intern

Education

07/2023	University of Michigan. Ann Arbor, MI
	Ph.D. in Information and Computer Science & Engineering
	Thesis: Where are the Humans in Human-AI Interaction: The Missing Human-Centered
	Perspective on Interpretability Tools for Machine Learning
	Advisors: Cliff Lampe and Eric Gilbert
	Committee: Mark Ackerman, Eytan Adar, Shamsi Iqbal, Jenn Wortman Vaughan
12/2019	University of Michigan. Ann Arbor, MI
	M.S. in Computer Science & Engineering
05/2016	University of Minnesota - Twin Cities. Minneapolis, MN
	B.S. in Computer Science (summa cum laude)
	Thesis Advisors: Loren Terveen and Brent Hecht
05/2013	Indiana University - Purdue University Indianapolis. Indianapolis, IN
	Worked towards a B.S. in Computer Engineering; transferred out after 1st year

Awards & Honors

2022	Rising Star in EECS
2022	FAccT Doctoral Consortium Funding
2021-2023	Google PhD Fellowship in HCI
2021	University of Michigan Teh-Hsun Lee Award
2020	Best Paper Honorable Mention, CHI 2020 for [c9]
2020	Best Paper Honorable Mention, IUI 2020 for [c10]
2018	HCOMP Doctoral Consortium Funding
2015–2016	University of Minnesota Hopper-Dean Scholarship
2012-2013	IUPUI Dean's Recognition Scholarship

Publications

Heavily Refereed Conference and Journal Papers

- [c19] Daniel Runningen, Malik Khadar, Julia Tang, Stevie Chancellor*, and **Harmanpreet Kaur***. Wisdom of the Crowd, Without the Crowd: A Socratic LLM for Asynchronous Deliberation on Perspectivist Data. *In Proceedings of the ACM Human Computer Interaction (PACM-HCI), to be presented at CSCW* 2025. (*denotes equal contribution last authors)
- [c18] Malik Khadar, Amoligha Timma, Luka Ludden, and **Harmanpreet Kaur**. Explain it Like I'm Me: User Characteristics in XAI Decision-Making. *In Proceedings of the ACM Conference on Fairness, Accountability, and Transparency (FAccT 2025)*
- [c17] Syeda Masooma Naqvi, Ruichen He, and **Harmanpreet Kaur**.

 Catalyst for Creativity or a Hollow Trend?: A Cross-Level Perspective on The Role of Generative AI in Design. *In Proceedings of the ACM Conference on Human Factors in Computing Systems* (CHI 2025)
- [c16] **Harmanpreet Kaur**, Matthew Conrad, Davis Rule, Cliff Lampe, and Eric Gilbert. Interpretability Gone Bad: The Role of Bounded Rationality in How Practitioners Understand Machine Learning. *In Proceedings of the ACM Human Computer Interaction (PACM-HCI)*, presented at **CSCW 2024**
- [c15] Harmanpreet Kaur, Doug Downey, Amanpreet Singh, Evie Yu-Yen Cheng, Daniel Weld, and Jonathan Bragg. FeedLens: Polymorphic Lenses for Personalizing Exploratory Search over Knowledge Graphs. *In Proceedings of the ACM Conference on User Interface Software and Technology* (*UIST 2022*)
- [c14] **Harmanpreet Kaur**, Eytan Adar, Eric Gilbert, and Cliff Lampe. Sensible AI: Re-imagining Interpretability and Explainability using Sensemaking Theory. *In Proceedings of the ACM Conference on Fairness, Accountability, and Transparency* (FAccT 2022)
- [c13] **Harmanpreet Kaur**, Daniel McDuff, Alex Williams, Jaime Teevan, and Shamsi Iqbal. "I Didn't Know I Looked Angry": Characterizing Observed Emotion and Reported Affect at Work. *In Proceedings of the ACM Conference on Human Factors in Computing Systems* (CHI 2022)

- [c12] Oana Inel, Tomislav Duricic, **Harmanpreet Kaur**, Elisabeth Lex, and Nina Tintarev. Design Implications for Explanations: Supporting Reflective Assessment of Videos on Controversial Topics. *Frontiers in Artificial Intelligence* 2021
- [c11] David Alvarez Melis, **Harmanpreet Kaur**, Hal Daumé, Hanna Wallach, and Jenn Wortman Vaughan. A Human-Centered Approach to Interpretability Using Weight of Evidence. *In Proceedings of the AAAI Conference on Human Computation and Crowd-sourcing* (**HCOMP 2021**)
- [c10] Harmanpreet Kaur, Cliff Lampe, and Walter Lasecki. Using Affordances to Improve AI Support of Social Media Posting Decisions. In Proceedings of the 25th ACM International Conference on Intelligent User Interfaces (IUI 2020)
 [Best Paper Honorable Mention]
- [c9] Harmanpreet Kaur, Harsha Nori, Samuel Jenkins, Rich Caruana, Hanna Wallach, and Jenn Wortman Vaughan. Interpreting Interpretability: Understanding Data Scientists' Use of Interpretability Tools for Machine Learning. *In Proceedings of the ACM Conference on Human Factors in Computing Systems* (CHI 2020)

 [Best Paper Honorable Mention]
- [c8] **Harmanpreet Kaur**, Alex Williams, Daniel McDuff, Mary Czerwinski, Jaime Teevan, and Shamsi Iqbal. Optimizing for Happiness and Productivity: Modeling Opportune Moments for Task Transitions and Breaks at Work. *In Proceedings of the ACM Conference on Human Factors in Computing Systems* (CHI 2020)
- [c7] Alex Williams, **Harmanpreet Kaur**, Jaime Teevan, Ryen White, Shamsi Iqbal, and Adam Fourney. Mercury: Empowering Programmers' Mobile Work Practices with Microproductivity. *In Proceedings of the 32nd ACM User Interface Software and Technology Symposium* (**UIST 2019**)
- [c6] **Harmanpreet Kaur**, Alex Williams, Anne Loomis Thompson, Walter Lasecki, Shamsi Iqbal, and Jaime Teevan. Creating Better Action Plans for Writing Tasks via Vocabulary-Based Planning. *In Proceedings of the International ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW 2018)*
- [c5] Raymond Fok, **Harmanpreet Kaur**, Skanda Palani, Martez Mott, and Walter Lasecki. Towards More Robust Speech Interactions for Deaf and Hard of Hearing Users. *In Proceedings of the 20th International ACM SIGACCESS Conference on Computers and Accessibility* (ASSETS 2018)
- [c4] Akshay Rao, **Harmanpreet Kaur**, Walter Lasecki. Plexiglass: Multiplexing Passive and Active Tasks for More Efficient Crowdsourcing. *In Proceedings of the AAAI Conference on Human Computation and Crowdsourcing* (**HCOMP 2018**)
- [c3] Alex Williams, **Harmanpreet Kaur**, Gloria Mark, Anne Loomis Thompson, Shamsi Iqbal, and Jaime Teevan. Supporting Workplace Detachment and Reattachment with Conversational Intelligence. *In Proceedings of the ACM Conference on Human Factors in Computing Systems* (CHI 2018)
- [c2] Harmanpreet Kaur, Mitchell Gordon, Yiwei Yang, Jeffrey Bigham, Jaime Teevan, Ece Kamar, Walter Lasecki. CrowdMask: Using Crowds to Preserve Privacy in Crowd-Powered Systems via Progressive Filtering. In Proceedings of the 5th AAAI Conference on Human Computation and Crowdsourcing (HCOMP 2017)

[c1] F. Maxwell Harper, Funing Xu, **Harmanpreet Kaur**, Kyle Condiff, Shuo Chang, and Loren Terveen. Putting users in control of their recommendations. *In Proceedings of the 9th ACM Conference on Recommender Systems* (*RecSys* 2015)

Refereed Short Papers, Late-Breaking Works, and Posters

- [s2] **Harmanpreet Kaur**, Alex Williams, Anne Loomis Thompson, Walter Lasecki, Shamsi Iqbal, and Jaime Teevan. Using Vocabularies to Collaboratively Create Better Plans for Writing Tasks. *In Proceedings of 2018 Extended CHI Conference on Human Factors in Computing Systems Late Breaking Works Track.* (CHI 2018)
- [s1] **Harmanpreet Kaur**, Isaac Johnson, Hannah Miller, Loren Terveen, Cliff Lampe, Brent Hecht, and Walter Lasecki. Oh The Places You'll Share: An Affordances-Based Model of Social Media Posting Behaviors. *In Proceedings of 2018 Extended CHI Conference on Human Factors in Computing Systems Late Breaking Works Track. (CHI 2018)*

Refereed Workshop Submissions

- [w8] Syeda Masooma Naqvi, Malik Khadar, and **Harmanpreet Kaur**. Computational Reification of Creativity: How Generative AI Reshapes Creative Cognition. *In the Tools for Thought Workshop at the ACM Conference on Human Factors in Computing Systems* (CHI 2025)
- [w7] **Harmanpreet Kaur**. The Role of Bounded Rationality in Human-AI Collaboration. In the Understanding and Mitigating Cognitive Biases in Human-AI Collaboration Workshop at the ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW 2023)
- [w6] Harmanpreet Kaur, Harsha Nori, Samuel Jenkins, Rich Caruana, Hanna Wallach, and Jenn Wortman Vaughan. Interpreting Interpretability: Understanding Data Scientists' Use of Interpretability Tools for Machine Learning. In the Data Science with Human in the Loop Workshop at the ACM Conference on Knowledge Discovery and Data Mining (KDD 2021)
- [w5] Davis Alvarez Melis, **Harmanpreet Kaur**, Hal Daumé, Hanna Wallach, and Jenn Wortman Vaughan. A Human-Centered Interpretability Framework Based on Weight of Evidence. In the Human-Centered Perspectives in Explainable AI Workshop at the ACM Conference on Human Factors in Computing Systems (CHI 2021)
- [w4] Harmanpreet Kaur, Alex Williams and Walter Lasecki. Building Shared Mental Models Between Humans and AI for Effective Collaboration. In the Where is the Human? Bridging the Gap Between AI and HCI Workshop at the ACM Conference on Human Factors in Computing Systems (CHI 2019)
- [w3] Alex Williams, **Harmanpreet Kaur**, Edith Law, and Ed Lank. Guiding Attention with Tasks and Emotions in Conversational Agents. In the Conversational Agents: Acting on the Wave of Research and Development Workshop at the ACM Conference on Human Factors in Computing Systems (CHI 2019)

- [w2] Sai Gouravajhala, **Harmanpreet Kaur**, Raymond Fok, and Walter Lasecki. Challenges in Making Situated Interactions Accessible to Motor-Impaired Users. *In the Accessible Voice Interfaces Workshop at the International ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW 2018)*
- [w1] **Harmanpreet Kaur**, Cliff Lampe, and Walter Lasecki. Crowdsourcing Law and Policy via Crowd-Civic Systems. *In the Crowdsourcing Law and Policy: A Design-Thinking Approach to Crowd-Civic Systems Workshop at the International ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW 2017)*

Invited Posters

- [p5] **Harmanpreet Kaur**. Leveraging Human Cognition for AI Interaction. *EECS Rising Stars*, Austin TX, 2023
- [p4] **Harmanpreet Kaur**. Designing to Support Cognitive and Social Heuristics in Human-AI Interaction. *Microsoft Research AI Breakthroughs Workshop*, Redmond WA, 2020
- [p3] **Harmanpreet Kaur**. Characterizing Shared Mental Models for Human-AI Collaboration. *Microsoft Research AI Breakthroughs Workshop*, Redmond WA, 2019
- [p2] Harmanpreet Kaur, Brent Hecht, Cliff Lampe, and Walter Lasecki. To Share or Not to Share: An Affordances-Based Modeling of Social Media Usage For Posting Content. CRA-W Grad Cohort, Washington DC, 2017
- [p1] Harmanpreet Kaur, Hannah Miller, and Loren Terveen. Building Feeds Without Friends. University of Minnesota Undergraduate Research Symposium, Minneapolis, MN. April 2016

Refereed Workshop, SIGs, Panels Organized

[01] Wesley Hanwen Deng, Glen Berman, **Harmanpreet Kaur**, Reva Schwartz, Memunat A. Ibrahim, Motahhare Eslami, Kenneth Holstein, and Michael Madaio. Collaboratively Designing and Evaluating Responsible AI Interventions. *Special Interest Group organized at the ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW 2024)*

Doctoral Consortia

- [d2] **Harmanpreet Kaur**. The Role of Human Cognition in Interpretability and Explainability. *Doctoral Consortium at the ACM Conference on Fairness, Accountability, and Transparency (FAccT 2022)*
- [d1] **Harmanpreet Kaur**. Hybrid Intelligence Organizations. *Doctoral Consortium at the AAAI Conference on Human Computation and Crowdsourcing* (HCOMP 2018)

Misc Posters and Presentations

[m1] Maryam Bacchus and **Harmanpreet Kaur**. Understanding the Impact of Generative AI Assistance in Writing-Based Tasks. *University of Minnesota Research Showcase* (2024)

Grants and Research Awards

2024	PI: Google Academic Research Award (co-PI: Loren Terveen), unrestricted gift. \$100,000.
2024	PI: Microsoft AI and the New Future of Work Award, unrestricted gift. \$50,000.
2024	PI: TikTok Academic Research Award, unrestricted gift. \$100,000.

Invited Talks

Seminar Talks

12/2024	Learning Informatics Lab, CEHD, University of Minnesota
05/2024	CSE 50th and Golden Medallion Society Reunion, University of Minnesota
04/2024	Twin Cities Software Process Improvement Network (TwinSPIN)
09/2023	Human-Computer Interaction Seminar, Stanford University
03/2023	Computer Science Seminar, University of Maryland
03/2023	Computer Science Seminar, Northeastern University
03/2023	Computer Science Seminar, Brown University
02/2023	Computer Science Seminar, University of Illinois - Urbana Champaign
02/2023	Computer Science Seminar, University of Minnesota - Twin Cities
02/2023	People + AI Research Group, Google
02/2023	Computer Science Seminar, Emory University
01/2023	Computer Science Seminar, University of California - Los Angeles
12/2022	Data Science / Computational Social Science Seminar, University of Michigan
08/2021	Deep Learning Day at KDD 2021
12/2020	AI Seminar, Ohio State University
09/2020	Microsoft Research AI Breakthroughs Workshop

Other Talks and Panels

04/2025	The Computation in Citizen Science [Invited Talk] CCC Workshop on the Grand Challenges for the Convergence of Computational and Citizen Science Research
10/2024	Perceptions of Higher Education in an Era of Artificial Intelligence [Panelist] Academy of Distinguished Teachers Retreat, University of Minnesota
04/2024	Artificial Intelligence: What is it and what will it mean to us? [Panelist] America's Service Commissions (ASC) National Service Training Conference
04/2024	In Your PhD Era?: A PhD Panel for Honors Students [Panelist] University Honors Program, University of Minnesota
12/2023	Job Market Information Panel [Organizer] Computer Science & Engineering, University of Minnesota
10/2023	A Human-Centered Approach to AI [Panelist] Thirst for Knowledge, University of Minnesota

Teaching

University of Minnesota

Fall 2023 CSci 8980 - Human-Centered AI
Fall 2024 CSci 8115 - Theoretical Foundations of Human-Centered Computing

Guest Lectures

04/2024	COMP 440 – Collective Intelligence, Macalester College Designing Human-Centered Explainable AI
04/2024	CSci 3901 – Intro to Research for Undergraduates, University of Minnesota Designing Human-Centered Artificial Intelligence
09/2022	CS 279R – Human-AI Interaction Seminar, Harvard University Leveraging Human Cognition in AI Interaction
02/2021	CSci 8115 – Graduate Research Methods in HCI, University of Minnesota Experimental Design Methods for Human-AI Interaction
10/2019	EECS 598 – Human-AI Interaction Seminar, University of Michigan Shared and Team Mental Models for Human-AI Collaboration

Certificates

05/2022 -	Center for Research on Learning and Teaching (CRLT) Certificate
06/2022	Preparing Future Faculty Seminar, University of Michigan
	Certificate designed to teach future faculty about higher education opportunities,
	course design and assessment, and equity-focused teaching.

Teaching Assistantships

Winter 2019	SI 106 - Programs, Information, People (Introduction to Programming University of Michigan Graduate Student Instructor
Winter 2018	EECS 498/598 – Social Computing University of Michigan Graduate Student Instructor
Fall 2015	CSci 1901H – Introduction to Python Programming for Honors Students University of Minnesota - Twin Cities Undergraduate Teaching Assistant
Winter 2013	CHEM-C 105 - Principles of Chemistry I Indiana University - Purdue University Indianapolis Peer-Led Team Learning Mentor

Student Advising and Mentorship

PhD Student Advising

Anna Martin-Boyle Malik Khadar Syeda Masooma Naqvi

Dissertation Committee

Ruixuan (Sophia) Sun (expected graduation: 2026) Smitha Muthya Sudheendra (expected graduation: 2026)

PhD Oral and Written Exam Committees

Vishal Kuvar, Educational Psychology, 2025 Jaeeun (Jen) Lee, Psychology, 2025 Yongtian (Tia) Ou, Psychology, 2025 Nuredin Ali, CS&E, 2024 Jenny Bauer, Nursing, 2024 Anna Martin-Boyle, CS&E, 2024 Moyan Zhou, CS&E, 2023

Undergraduate Honors Thesis Committees

Omar Elgohary, 2025 Gunnar Jagodzinske (Thesis Advisor), 2024 Harshini Bellamkonda, 2024

Master's Students

Gayathri Balaji, 2024-2025 Ruichen He, 2024 Luka Ludden, 2024

Undergraduate Research Assistants

University of Minnesota
Will Beaumaster, 2025
Angelique Laju, 2024-2025
Amoligha Timma, 2024-2025
Gunnar Jagodzinske, 2024
Maryam Bacchus (REU student from Vassar College), 2024

University of Michigan
Davis Rule [c16]
Matthew Conrad [c16]

Annolin

Anne Lin

Kayla Wiggins

Kayleigh Merz

Shaily Fozdar

Akshay Rao [c4]

Emmie Zhang

Raymond Fok [c5, w2]

Spencer Hanson

Professional Activities and Service

Conference Chair Roles

Tutorials Co-Chair, FAccT 2025 Works-in-Progress and Demos Co-Chair, HCOMP 2024 Publicity Co-Chair, HCOMP 2020 Documentation Chair, UIST 2020 CrowdCamp Co-Chair, HCOMP 2019

Program Committee/Associate Editor

Associate Chair, CHI 2024-2025 – Understanding People (Statistical and Quantitative Methods) Area Chair, FAccT 2025 – HCI Formal Reviewer, FAccT 2022-2024 – HCI Formal Reviewer, HCOMP 2024

Conference and Journal Reviewing

CHI 2018-2025 (Special Recognition for Outstanding Reviews: 2023x2, 2024, 2025)
CSCW 2017-2020, 2022-2025 (Special Recognition for Outstanding Reviews: 2020, 2024, 2025)
UIST 2019-2020, 2022-2023 (Special Recognition for Outstanding Reviews: 2023)
International Journal of Human-Computer Studies 2023
ECSCW 2024
CHI Late Breaking Works 2020-2022
ACM Transactions on Computer-Human Interaction (ToCHI) 2020, 2022
Human-Computer Interaction Journal 2022
DIS 2021, 2025
HCOMP 2017-2020
CIKM 2020

Other Service

IMWUT 2019

NSF CISE Review Panel, 2025 Assistant to Subcommittee Chairs – Specific Application Areas, CHI 2023 Assistant to General Chairs, CHI 2017 Student Volunteer, CHI 2017-2018

Service to University of Minnesota

Human-Centered Computing Seminar Series, Co-Organizer, 2024 Bystander Intervention Training Planning Committee, 2024 Written Preliminary Examinations and PhD Evaluations Committee, 2024 Computer Science Inclusiveness, Diversity, Equity, and Advocacy (CS-IDEA) Committee, 2023

Service to University of Michigan

Michigan Interactive and Social Computing (MISC) Seminar Series, Student Organizer, 2019-2020 PhD Student Mentor, 2018-2019 CSE and School of Information, Student Liaison, 2017-2018 HCI Faculty Recruitment in CSE, Student Host, 2017-2018

Research Experience

11/2019 –	University of Michigan. Ann Arbor, MI
08/2023	Interactive Systems Lab (CSE) and comp.social lab (SI)
	Graduate Student Research Assistant
09/2016 -	University of Michigan. Ann Arbor, MI
10/2019	CROMA (Crowds + Machines) Lab
	Graduate Student Research Assistant
08/2014 -	University of Minnesota - Twin Cities. Minneapolis, MN
08/2016	GroupLens Research Lab
	Undergraduate Researcher