

DIVYA RAMESH

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RESEARCH INTERESTS

Human-Computer Interaction, Sociotechnical Systems, Algorithmic Accountability & Governance, Bias, Ethics, Fairness, Transparency, Artificial Intelligence, Science and Technology Studies.

EDUCATION

PhD in Computer Science & Engineering 2025 (expected)

University of Michigan, Ann Arbor, Michigan

Advisor: Dr. Nikola Banovic

Committee: Dr. Mark Guzdial, Dr. Shobita Parthasarathy, Dr. Joyojeet Pal

Graduate Certificate in Science, Technology and Public Policy 2025 (expected)

Gerard R. Ford School of Public Policy, University of Michigan, Ann Arbor, Michigan

Master of Science in Electrical Engineering May 2015

University of Southern California, Los Angeles, California

Bachelor of Engineering in Electronics and Communication June 2013

M. S. Ramaiah Institute of Technology, Bangalore, India

AWARDS AND RECOGNITION

University of Michigan Rackham Barbour Scholar (Tuition, Fees, & Stipend of \$36,084)	2024-25
Quad Fellow (\$50,000)	2023-24
Special Recognition for Outstanding Review	CHI 2024
Google Travel Grant (\$4000)	2022
Graduate Student Service Award for Excellence in Climate, Diversity, and Inclusion (\$1000)	2021
University of Michigan Nominee for Google PhD Fellowship	2021
Pragnesh Jay Modi Best Student Paper Award (\$1000)	AAMAS 2020
Best Paper Nomination	AAMAS 2020
Rackham Conference Travel Grant (\$2500)	CHI 2019, FAccT 2022

PUBLICATIONS

Peer-Reviewed Full Papers

Divya Ramesh, Caitlin Henning, Nel Escher, Haiyi Zhu, Min Kyung Lee, Nikola Banovic. Ludification as a Lens for Algorithmic Management: A Case Study of Gig Workers' Experiences of Ambiguity in Instacart Work. In *ACM Conference on Designing Interactive Systems Conference (DIS '23)*. Pittsburgh, PA, USA.

Divya Ramesh, Vaishnav Kameswaran, Ding Wang, Nithya Sambasivan. How Platform-User Power Relations Shape Algorithmic Accountability: A Case Study of Instant Loan Platforms and Financially Stressed Users in India. In *ACM Conference on Fairness, Accountability and Transparency (FAccT 2022)*.

Seoul, South Korea. (*Contributed to public conversation, shaping policy outcomes for Google. See Press*).

Kori Inkpen, Shreya Chappidi, Keri Mallari, Besmira Nushi, **Divya Ramesh** et al. Advancing Human-AI Complementarity: The Impact of User Expertise and Algorithmic Tuning on Joint Decision Making. In *ACM Transactions on Computer-Human Interaction* (TOCHI 2022).

Divya Ramesh, Anthony Liu, Jean Song, Andres Echeverria, Nicholas Waytowich, Walter Lasecki. Yesterday's Reward is Today's Punishment: Contrast Effects in Human Feedback to Reinforcement Learning Agents. In *Proceedings of the 19th International Conference on Autonomous Agents and Multiagent Systems* (AAMAS 2020). Auckland, New Zealand.

🏆 **Best Paper Award Nominee**

🏆 **Pragnesh Jay Modi Best Student Paper**

Keri Mallari, Kori Inkpen, Paul Johns, Sarah Tan, **Divya Ramesh**, Ece Kamar. Do I Look Like a Criminal? Examining How Race Information Presentation Impacts Human Judgement of Recidivism. In *Proceedings of the ACM Conference on Human Factors in Computing Systems* (CHI 2020). Honolulu, Hawaii.

Peer-Reviewed Short Papers

Nel Escher, Jeffrey Bilik, Alexander Miller, Jennifer Jiyoung Huseby, **Divya Ramesh**, Alice Liu, Sam Mikell, Nina Cahill, Ben Green, Nikola Banovic. 2022. Cod(e)ifying The Law. In *Programming Languages and the Law* (Prolala) 2022.

Divya Ramesh, Bradford A. Folkens. Towards Real-Time Image Captioning using Crowdsourcing and Computer Vision. In *HCOMP Workshop on Human Computation for Image and Video Analysis* (GroupSight 2017). Quebec City, Quebec.

Patents

Ramesh D. and Folkens B. A. 2020. Content Based Image Management and Selection. US Patent US10831820B2. (Assigned to CloudSight Inc.)

Technical Reports and White Papers

Madison Cutler, Erin Keith, Molly Kleinman, Marita Ky, Yvonne Navarette, Kaci Pellar, **Divya Ramesh**, and Eric Welsby. Community Partnerships Playbook: How to Create Equitable Partnerships Between Technical and Community Experts. 2024.

Joyojeet Pal, Soham De, Arshia Arya, **Divya Ramesh**, and Meg Young. Social Media and Society in India. 2023.

Invited Panels & Talks

On the Politics of Algorithmic Accountability: Comparing the Impacts of AI on Financially Vulnerable Communities in India and the US. In *HCIL Brown Bag Talks Lunch Series*. University of Maryland, College Park, USA. April 2024.

A Tiny Slice of Human-Centered AI. In *Building Bridges Talk Series*. Michigan State University, East Lansing, USA. April 2024.

Bridging Critique and Design to Enhance Responsible AI Innovation. In *EECS 593: Introduction to Human-Computer Interaction*. University of Michigan, Ann Arbor, USA. 2023.

Panel on Human-AI Interaction for CSCI 598: Social and Collaborative Computing, Colorado School of Mines, USA. October 2023.

Investing in the Next Generation of U.S.-India Ties: The Quad Fellowship in conversation with NSC Chief of Staff Curtis Ried. *USIBC 48th India Ideas Summit and Annual General Meeting*. Washington DC, USA. 2023.

Human-AI Interaction through an Empirical Lens. In *EECS 593: Introduction to Human-Computer Interaction*. University of Michigan, Ann Arbor, USA. 2021.

Human-AI Interaction for Accessibility. In *ECCV VizWiz Grand Challenge Workshop*. Germany. 2018. (declined).

Press

Shereen Bhan discusses the future of India-US ties, strategic importance of the Quad and how the Quad Fellowship is building the next generation of leaders with NSC Chief of Staff Curtis Ried & Quad Fellows Divya Ramesh and Parris Washington. *CNBC TV-18*. June 16, 2023.

Ford School STPP scholars receive inaugural Quad Fellowships, *U-M Ford School News*, January 3, 2023.

Divya Ramesh chosen for Quad Fellowship in interdisciplinary studies in STEM, *U-M CSE News*, December 15, 2022.

U-M students chosen for new STEM fellowship, *UM University Record*, December 12, 2022.

Risky teleoperation, rocket league simulation and zoologist multiplication, *TechCrunch Perceptron*, June 2022.

Research on human biases in AI learning earns best student paper award, *Michigan CSE News*, May 2020.

Invited Workshops and Consortia

The Consortium of Science of Sociotechnical Systems Summer Research Institute	2024
Data and Society Public Technology Leadership Collaborative Early Career Workshop	2024
Surfacing Structural Barriers to Community-Collaborative Approaches in HCI	2023

INDUSTRY EXPERIENCE

Research Intern

Google Research, Mountain View, CA (remote).	Jun 2021 – Aug 2021
<i>Host: Dr. Nithya Sambasivan</i>	

Research Intern

Microsoft Research, Redmond, Washington	Jun 2019 – Aug 2019
<i>Host: Dr. Kori Inkpen. Mentors: Dr. Besmira Nushi, Dr. Ece Kamar</i>	

Research & Development Software Engineer

CloudSight Inc., Los Angeles, California	Aug 2015 - May 2018
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Computer Vision Intern

CloudSight Inc., Los Angeles, California	May 2014 – June 2015
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TEACHING

Graduate Student Instructor, Introduction to Human-Computer Interaction Research	Fall 2021
Planning Committee, Introduction to Graduate Studies, University of Michigan.	Fall 2020

LEADERSHIP AND SERVICE

Program Committee, ACM CHI	2025
Program Committee, ACM FAccT	2024
Co-Founder, VoiCSEs, University of Michigan.	2022-23
Chair, ECSEL+, University of Michigan.	2020-23
Reviewer, ACM SIGCHI, ACM CSCW, ACM UIST, AAAI HCOMP.	2019-24
Student Volunteer, ACM FAccT Conference	2021-22
Co-Founder, Tech + Society Reading Group in CSE, University of Michigan.	2020
Committee Member, DEI Working Group in CSE, University of Michigan.	2020

MENTORING

Ananya Kasi, Undergraduate Student, University of Michigan.	2023- Present
Aatif Nisar Dar, Research Assistant, IIT Delhi, India	2023-24
Caitlin Henning, Undergraduate Student, University of Michigan.	2021-22
Tsedeniya Amare, Undergraduate Student, Addis Ababa University, Ethiopia.	2021-22
Andres Echeverria, Undergraduate Student, University of Michigan.	2018-19
Mujtaba Asif, Data Scientist, CloudSight Inc.	2017-18
Hengyue Liu, Computer Vision Intern, CloudSight Inc.	2016

OUTREACH

Mentor for underrepresented prospective graduate students, Bahujan Economists, India.	2023-24
After-school tutor for at-risk youth, Peace Neighborhood Center, Ann Arbor, Michigan.	2020
Scratch programming & Hummingbird robotics tutor for at-risk youth, NYA, California.	2017-18

SKILLS

Qualitative: Interviews, Ethnography, Diary Studies, Focus Groups, Discourse Analysis
Computational: Crowdsourcing, Machine Learning, Reinforcement Learning
Quantitative: Experiments, Surveys
Computer Languages: Python, Ruby, C/C++
Libraries & Packages: Tensorflow, Pytorch, Caffe, OpenCV, NLTK, Gensim, MATLAB, LaTeX