

DIVYA RAMESH

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RESEARCH INTERESTS

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

EDUCATION

PhD in Computer Science & Engineering University of Michigan, Ann Arbor, Michigan <i>Advisor: Dr. Nikola Banovic</i> <i>Committee: Dr. Mark Guzdial, Dr. Shobita Parthasarathy, Dr. Min Kyung Lee</i>	2018-Present
Graduate Certificate in Science, Technology and Public Policy University of Michigan, Ann Arbor, Michigan	2022-Present
Master of Science in Electrical Engineering University of Southern California, Los Angeles, California	May 2015
Bachelor of Engineering in Electronics and Communication M. S. Ramaiah Institute of Technology, Bangalore, India	June 2013

AWARDS AND HONORS

Quad Fellow (\$50,000)	2023-24
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'19, FAccT'22

PEER-REVIEWED PUBLICATIONS

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 that shaped 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. (**Pragnesh Jay Modi Best Student Paper - Top 1%**)

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.

LIGHTLY PEER-REVIEWED PUBLICATIONS

Nel Escher, Jeffrey Bilik, Alexander Miller, Jennifer Jiyoun 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.

OTHER WRITING

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

INVITED PANELS & TALKS

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).

PATENTS

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

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.

INDUSTRY EXPERIENCE

Research Intern

Google Research, Mountain View, CA (remote).

Jun 2021 – Aug 2021

Host: Dr. Nithya Sambasivan

Research Intern

Microsoft Research, Redmond, Washington

Jun 2019 – Aug 2019

Host: Dr. Kori Inkpen

Mentors: Dr. Besmira Nushi, Dr. Ece Kamar

Research & Development Software Engineer

CloudSight Inc., Los Angeles, California

Aug 2015 - May 2018

Computer Vision Intern

CloudSight Inc., Los Angeles, California

May 2014 - June 2015

SKILLS

Quantitative: Experiments, Surveys, Crowdsourcing, Machine Learning, Reinforcement Learning.

Qualitative: Interviews, Ethnography, Diary Studies, Focus Groups.

Computer Languages: Python, Ruby, C/C++

Libraries & Packages: Tensorflow, Pytorch, Caffe, OpenCV, NLTK, Gensim, MATLAB, LaTeX

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

Co-Founder, VoiCSEs, University of Michigan.

2022-23

Chair, ECSEL+, University of Michigan.

2020-23

Reviewer, ACM SIGCHI, ACM CSCW, ACM UIST.

2019-23

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
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

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