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   2018-Present
University of Michigan, Ann Arbor, Michigan
Advisor: Dr. Nikola Banovic

Graduate Certificate in Science, Technology and Public Policy   2022-Present
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 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. *(To Appear).*

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 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.*

INVITED PANELS & TALKS

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

Computer Vision Intern   May 2014 - June 2015
CloudSight Inc., Los Angeles, California

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