

Mahika Phutane

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Research Interests

My research aims to study, design, and evaluate inclusive AI technologies with people with disabilities, bridging insights from Accessibility, Human-Computer Interaction (HCI), and Artificial Intelligence (AI).

Education

- 2020 – Present **Cornell University**
PhD, Computer Science
Committee: Dr. Aditya Vashistha (chair), Dr. Nicki Dell, Dr. Tapo Bhattacharjee
Dissertation: AI Safety for People with Disabilities
- 2015 – 2020 **University of Toronto**
BSc, Computer Science
Additional Major: Communication, Culture, Information, and Technology (CCIT)
Mentors: Dr. Cosmin Munteanu, Dr. Rhonda McEwen, Dr. Daniel Zingaro

Publications

- 2025 **Phutane M.***, Jung H.*, Kim M., Mitra T., Vashistha A. *ABLEIST: Intersectional Disability Bias in LLM-Generated Hiring Scenarios*. [Submitted to ACL] [\[preprint\]](#)
- 2025 **Phutane M.**, Vashistha A. *Disability Across Cultures: A Human-Centered Audit of Ableism in Western and Indic LLMs*.
AAAI/ACM Conference on AI, Ethics, and Society (AIES '25) [\[link\]](#)
- 2025 **Phutane M.**, Seelam A., Vashistha A. *"Cold, Calculated, and Condescending": How AI Identifies and Explains Ableism Compared to Disabled People*
ACM Conference on Fairness, Accountability, and Transparency (FAccT '25) [\[link\]](#)
- 2024 Jiang L., Jung C., **Phutane M.**, Stangl A., Azenkot S. *"It's Kind of Context Dependent": Understanding Blind and Low Vision People's Video Accessibility Preferences*.
ACM Conference on Human Factors in Computing (CHI '24) [\[link\]](#)
- 2023 **Phutane M.**, Chen N., Jung C., Azenkot S. *Speaking with My Screen Reader: Using Audio Fictions to Explore Conversational Access to Interfaces*.
ACM Conference on Computers and Accessibility (ASSETS '23) [\[link\]](#)

- 2023 Jiang L., **Phutane M.**, Azenkot S. *Beyond Audio Description: Exploring 360° Video Accessibility with Blind and Low Vision Users Through Collaborative Creation*. ACM Conference on Computers and Accessibility (ASSETS '23) [\[link\]](#)
- 2023 Zhao Y., **Phutane M.**, Singh S., Lepecki F., Zhou W., McEwen R., Zihayat M. *Bridging the Divide: A Comparative Analysis of the Discourse on Anxiety in Academic Research, Social Media, and Blogging Platforms* [In Review].
- 2022 **Phutane M.**, Wright J., Castro B., Shi L., Stern S., Lawson H., Azenkot S. *Tactile Materials in Practice: Understanding the Experiences of Teachers of the Visually Impaired*. ACM Transactions on Accessible Computing, 15(3), 1-34. (TACCESS '22). [\[link\]](#)
- 2022 Heung S., **Phutane M.**, Azenkot S., Marathe M., Vashistha A. *Nothing Micro About It: Examining Ableist Microaggressions*. ACM Conference on Computers and Accessibility (ASSETS '22). [\[link\]](#)
- 2021 Singhal T., **Phutane, M.** *Elevating Haptics: An Accessible and Contactless Elevator Concept with Tactile Mid-Air Controls*. ACM Extended Abstracts on Human Factors in Computing (CHI EA '21). [\[link\]](#)
- 2021 Hartel, J., **Phutane, M.**, Posa, S., Shi, S., Xu, A., & Bradshaw, S. *Somewhere Over the Rainbow: The Use of Color in the Draw-and-Write Technique*. Visual Methodologies, 8(1), 16 - 36. [in press]

Honors, Awards, and Fellowships

- 2023 Digital Life Initiative Doctoral Fellowship. \$5000 in research funding
- 2023 Siegel Public Interest Tech Impact Fellowship. \$10,000 in stipend
- 2020 Dennis Washington Graduate Fellowship. \$120,000
Awarded for academic excellence and strength of character in face of adversity
Full support for 5 years, including tuition, health insurance, and stipend
[Appeared in Wall Street Journal](#)
- 2020 Cornell Computer Science Department Fellowship. \$36,750
First year support awarded for outstanding application & exceptional promise
- 2020 Beyond Touchscreens Competition Runner-Up.
Developed mid-air haptic braille with [UltraLeap](#) for a post-COVID world
- 2020 Winner of Google Magenta ML & Music Series for [AI Vocal Coach](#)
- 2017 Jackman Humanities Institute Scholar-in-Residence. \$1,000
Intensive summer residence fellowship for social science research
Curated an [Art Exhibition](#) to share research findings
- 2017 Hacking Arts: First Place. MIT Media Lab. \$2,500

Professional experience

- 2024 **Microsoft Research India.** Bengaluru, India
PhD Research Intern
- 2023 – 2024 **NYC Mayor's Office of People with Disabilities.** New York, NY
Academic Fellow
Creating an interactive AI assistant/chatbot to facilitate communication between the NYC government website and individuals with disabilities.

Teaching Experience

- Spring 2023 **Cornell Tech.** Teaching Assistant.
Spring 2022 INFO 5305: User Experience and User Research Methods.
Held office hours, created supplemental lecture materials, led grading sessions
Prof: Dr. Shiri Azenkot
- Spring 2020 – **University of Toronto.** Teaching Assistant.
Spring 2016 CSC373: Algorithm Design and Analysis
CSC263: Data Structures and Analysis
CSC236: Introduction to Computational Theory
CSC148: Introduction to Computer Science
Prof: Dr. Daniel Zingaro, Dr. Andrew Petersen, Dr. Arnold Rosenbloom

Invited Talks and Panels

- 2025 AI for Accessibility Panel. *Intro to Accessibility, University of Michigan*
- 2025 Can AI Identify Ableism? *Accessibility Lunch Seminar, CMU*
- 2025 Disability Across Cultures (Paper Talk). *AIES '25, Madrid, Spain*
- 2025 Reimagining Access through Emerging Design Approaches (Panel) *ACM COMPASS*
- 2025 How AI Identifies and Explains Ableism (Paper Talk) *FACCT '25, Athens, Greece*
- 2024 Quantitative HCI Methods: Data & Statistics (Lecture) *University of Toronto, Canada*
- 2024 Conversational AI for People with Disabilities. *Microsoft Research, Bangalore, India*
- 2023 Speaking with My Screen Reader (Paper Talk) *ASSETS '23, New York City*
- 2023 LLMs and Ableism. *Digital Life Initiative, Cornell Tech*

Service and Leadership

- 2024 – 2025 **Milstein Program in Technology and Humanity,** Research Mentor
Advised Milstein undergraduate scholars on independent research

- 2021 **NSF Undergraduate Research Program**, Research Mentor
Supported a NSF REU Site with Dr. Shiri Azenkot (Cornell Tech), Dr. Steven Fiener (Columbia), and Dr. Brian Smith (Columbia), led a lecture series of good research practice and methods, and mentored upcoming undergraduate researchers.
- 2021 – 2023 **CS PhD Admissions Committee**, Application Reviewer

Mentorship

- 2025 Jimin Kim, Milstein Scholar, *Cornell*
- 2025 Anthony Ahn, Milstein Scholar, *Cornell*
- 2025 Molly Jones, Milstein Scholar, *Cornell*
- 2025 Matthew Kim, Research Assistant, *Cornell BURE*
- 2025 Sumit Gawali, Research Assistant, *Cornell*
- 2025 Hadi Saif, Research Assistant, *Cornell*
- 2025 Joice Chen, Milstein Scholar, *Cornell*
- 2025 Oscar Wang, Milstein Scholar, *Cornell*
- 2024 Ananya Seelam, Research Assistant, *Cornell*
- 2024 Krystal Ohuabunwa, Milstein Scholar, *Cornell*
- 2024 Joy Alemu, Milstein Scholar, *Cornell*
- 2022 Cyrus West, Research Assistant, *Cornell*
- 2021 Ayush Srinivas, Lumiere Research Scholar
- 2021 Michael Ye, NSF Research Experience for Undergraduates, *Cornell Tech*

Reviewing

- 2021 – 2025 ACM Human Factors in Computing Systems (CHI)
- 2025 AAAI/ACM Conference on AI, Ethics, and Society (AIES)
- 2024 – 2025 ACM SIGCHI Conversational User Interfaces. (CUI)
- 2024 ACM Computing and Sustainable Societies (COMPASS)
- 2024 ACM SIGCHI Designing Interactive Systems (DIS)
- 2022 ACM Interaction Design and Children (IDC)
- 2022 ACM Conference on Computer Supported Cooperative Work (CSCW)
- 2021 – 2022 Journal of Transactions on Accessible Computing (TACCESS)