Aditya Vashistha

Cornell University
205 Gates Hall
Ithaca NY 14853
Phone: 206-953-6653
Web: www.adityavashistha.com
Email: adityav@cornell.edu

Research Interests

My research aims to design, build, and evaluate appropriate computing systems to improve socioeconomic outcomes for low-income communities around the world. More broadly, my research interests are in Human-Computer Interaction (HCI), Human-AI Interaction (HAI), Social Computing, Accessibility, and Responsible Artificial Intelligence (RAI).

Appointments

Cornell University
Cornell Bowers College of Computing and Information Science
Assistant Professor (2020–Present)

University of Washington
Paul G. Allen School of Computer Science and Engineering
Graduate Research Assistant (2013–2019)

Microsoft Research
Visiting Researcher (2019, 2021, 2022, 2023)
Research Intern (2014)
Assistant Researcher (2011–2013)

Infosys Labs
Research Engineer (2009–2011)

Education

Ph.D. in Computer Science and Engineering (2013–2019)
University of Washington, Seattle, USA
Advisor: Richard Anderson
The William Chan Memorial Dissertation Award
WAGS/Proquest Innovation in Technology Award

M.S. in Computer Science and Engineering (2013–2015)
University of Washington, Seattle, USA
Advisors: Gaetano Borriello and Richard Anderson

B.Tech. in Information Technology (2005–2009)
Jaypee Institute of Information Technology, Noida, India
Vice Chancellor's Gold Medal

Academic Awards

2024 CCSS Faculty Fellowship
2022 ACM CHI Best Paper Honorable Mention Award
2022 Cornell Global Public Voices Faculty Fellow
2021 ACM ASSETS Best Paper Nominee
2021 ACM CHI Best Paper Award
2021 Finalist, Facebook Research Award (People's Expectations and Experiences with Digital Privacy)
2021 Finalist, Facebook Research Award (Misinformation and Polarization)
2020 WAGS/ProQuest Innovation in Technology Award
2020 ACM CSCW Best Paper Honorable Mention Award
2020 Google Faculty Research Award
2019 The William Chan Memorial Dissertation Award
2018 UW Graduate School Medal Finalist
2017 College of Engineering Student Research Award
2017 ACM CHI Best Paper Honorable Mention Award
2016 Facebook Graduate Fellowship ($74,000)
2015 ACM ASSETS Best Student Paper Award
2015 ACM CHI Best Paper Award
2014 SIGACCESS Scholarship in Computers and Accessibility Award ($2000)
2014 Facebook Access Innovation Prize ($10,000)
2013 Manthan Award for IVR Junction – Runner-up
2013 Sujal Patel First-Year Graduate Fellowship in Computer Science and Engineering
2013 Winner of Hunanity United's Tech Challenge for Atrocity Prevention ($7,000)
2013 mBillionth Award for IVR Junction – Special Mention
2011 Award of Innovation from Intellectual Property Cell and Infosys Labs
2011 Most Promising Debutant, Infosys Labs
2010 National Internet Exchange of India (NIXI) Fellowship awarded by the Government of India
2009 Vice Chancellor Gold Medal at Jaypee Institute of Information Technology
2008 IC3 Conference Best Demo Award

Publications

Refereed Conference and Journal Publications

1. Rishav Hada, Safiya Husain, Varun Gumma, Harshita Diddee, Aditya Yadavalli, Agrima Seth, Nidhi Kulkarni, Ujwal Gadiraju, **Aditya Vashistha**, Vivek Seshadri, and Kalika Bali, Akal Badi ya Bias: An Exploratory Study of Gender Bias in Hindi, In *ACM Conference on Fairness, Accountability, and Transparency (FAccT)*, 2024.

2. Sharon Heung, Lucy Jiang, Shiri Azenkot, and **Aditya Vashistha**, "Vulnerable, Victimized, and Objectified": Understanding Ableist Hate and Harassment Experienced by Disabled Content Creators, In *ACM Conference on Human Factors in Computing Systems (CHI)*, 2024.

3. Sukhnidh Kaur, Manohar Swaminathan, Kalika Bali, and **Aditya Vashistha**, Challenges to Online Disability Rights Advocacy in India, In *ACM Conference on Human Factors in Computing Systems (CHI)*, 2024.

4. Ian René Solano-Kamaiko, Dibyendu Mishra, Nicola Dell, and **Aditya Vashistha**, Explorable Explanations: Making AI Understandable to Frontline Health Workers, In *ACM Conference on Human Factors in*

Computing Systems (CHI), 2024.

5. Rama Adithya Varanasi, Nicola Dell, and **Aditya Vashistha**, Saharaline: A Collective Social Support Intervention for Teachers in Low-Income Indian Schools, In *ACM Conference on Human Factors in Computing Systems (CHI)*, 2024.

6. Dhruv Agarwal, Chinasa T. Okolo, Nicola Dell, and **Aditya Vashistha**, "If it is easy to understand then it will have value"? Examining Perceptions of Explainable AI with Community Health Workers in Rural India, In *Proceedings of the ACM on Human-Computer Interaction (CSCW)*, 2024.

7. Ananya Seelam, Arnab Paul Choudhury, Connie Liu, Miyuki Goay, Kalika Bali, and **Aditya Vashistha**, "Fact-checks are for the Top 0.1%": Examining Reach, Awareness, and Relevance of Fact-Checking in Rural India, In *Proceedings of the ACM on Human-Computer Interaction (CSCW)*, 2024.

8. Joy Ming, Dana Gong, Chit Sum Eunice Ngai, Madeline Sterling, **Aditya Vashistha**, and Nicola Dell, Wage Theft and Technology in the Home Care Context, In *Proceedings of the ACM on Human-Computer Interaction (CSCW)*, 2024.

9. Farhana Shahid and **Aditya Vashistha**, Decolonizing Content Moderation: Does Uniform Global Community Standard Resemble Utopian Equality or Western Power Hegemony?, In *ACM Conference on Human Factors in Computing Systems (CHI)*, 2023.

10. Joy Ming, Elizabeth F Kuo, Katie Go, Emily Tseng, John Kallas, **Aditya Vashistha**, Madeline Sterling, and Nicola Dell, "I Go Beyond and Beyond": Examining the Invisible Work of Home Health Aides, In *Proceedings of the ACM on Human-Computer Interaction (CSCW)*, 2023.

11. Ishani Mondal, Sukhnidh Kaur, Kalika Bali, **Aditya Vashistha**, and Manohar Swaminathan,"#DisabledOnIndianTwitter": A Dataset towards Understanding the Expression of People with Disabilities on Indian Twitter, In *Findings of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 12th International Joint Conference on Natural Language Processing (AACL-IJCNLP)*, 2022.

12. Sharon Heung, Mahika Phutane, Shiri Azenkot, Megh Marathe, and **Aditya Vashistha**, Nothing Micro About it: Examining Ableist Microaggressions on Social Media, In *Proceedings of the ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*, 2022.

13. Chinasa T. Okolo, Nicola Dell, and **Aditya Vashistha**, Making AI Explainable in the Global South: A Systematic Review, In *ACM SIGCAS Conference on Computing and Sustainable Societies (COMPASS)*, 2022.

14. Joy Ming, Srujana Kamath, Elizabeth Kuo, Madeline Sterling, Nicola Dell, and **Aditya Vashistha**, Invisible Work in Two Frontline Health Contexts, In *ACM SIGCAS Conference on Computing and Sustainable Societies (COMPASS)*, 2022.

15. Devansh Mehta, Vishnu Prasad, Tarun Chitta, Srinivas Naik, Amit Prakash, and **Aditya Vashistha**, Mobilizing Digital Volunteers to Support Underserved Communities in India During COVID-19 Lockdown, In *ACM SIGCAS Conference on Computing and Sustainable Societies (COMPASS)*, 2022.

16. Agha Ali Raza, Mustafa Naseem, Namoos Hayat Qasmi, Shan Randhawa, Fizzah Malik, Behzad Taimur, Sacha St-Onge Ahmad, Sarojini Hirshleifer, Arman Rezaee, and **Aditya Vashistha**, Fostering Engagement of Underserved Communities with Credible Health Information on Social Media, In *The Web Conference (WWW)*, 2022.

17. Farhana Shahid, Shrirang Mare, and **Aditya Vashistha**, Examining Source Effects on Perceptions of Fake News in Rural India, In *Proceedings of the ACM on Human-Computer Interaction: Issue CSCW*, 2022.

18. Rama Adithya Varanasi, Joyojeet Pal, and **Aditya Vashistha**, Accost, Accede, or Amplify: Attitudes towards COVID-19 Misinformation on WhatsApp in India, In *ACM Conference on Human Factors in Computing Systems (CHI)*, 2022.

19. Srujana Kamath, Farhana Shahid, Annie Sidotam, Vivian Jiang, Alexa Batino, and **Aditya Vashistha**, "It Matches My Worldview": Examining Perceptions and Attitudes Around Fake Videos, In *ACM Conference on Human Factors in Computing Systems (CHI)*, 2022.

20. Rama Adithya Varanasi, Divya Siddarth, Vivek Seshadri, Kalika Bali, and **Aditya Vashistha**, Feeling Proud, Feeling Embarrassed: Experiences of Low-Income Women with Crowd Work, In *ACM Conference on Human Factors in Computing Systems (CHI)*, 2022. **Best Paper Honorable Mention Award**

21. Laura E Ellington, Irene Najjingo, Margaret Rosenfeld, James W Stout, Stephanie A Farquhar, **Aditya Vashistha**, Bridget Nekesa, Zaituni Namiya, Agatha J Kruse, Richard Anderson, and Rebecca Nantanda, Health Workers Perspectives of a Mobile Health Tool to Improve Diagnosis and Management of Pediatric Acute Respiratory Illnesses in Uganda: A Qualitative Study, In *BMJ Open*, 2021.

22. Joy Ming, Sharon Heung, Shiri Azenkot, and **Aditya Vashistha**, Accept or Address? Researchers Perspectives on Response Bias in Accessibility Research, In *Proceedings of the ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*, 2021. **Best Paper Nominee**

23. Rama Adithya Varanasi, **Aditya Vashistha**, Rene F. Kizilec, and Nicola Dell, Investigating Technostress Among Teachers in Low-Income Indian Schools, In *Proceedings of the ACM on Human-Computer Interaction (CSCW)*, 2021.

24. Chinasa T. Okolo, Srujana Kamath, Nicola Dell, and **Aditya Vashistha**, Community Health Worker Perceptions of AI-Enabled Mobile Health Applications in Rural India, In *ACM Conference on Human Factors in Computing Systems (CHI)*, 2021.

25. Rama Adithya Varanasi, **Aditya Vashistha**, and Nicola Dell, Tag a Teacher: A Qualitative Analysis of WhatsApp-Based Teacher Networks in Low-Income Indian Schools, In *ACM Conference on Human Factors in Computing Systems (CHI)*, 2021.

26. Gesu India, Vidhya Y, Aishwarya O, Nirmalendu Diwakar, Mohit Jain, **Aditya Vashistha**, and Swami Manohar, Teachers' Perceptions around Digital Games for Children in Low-resource Schools for the Blind, In *ACM Conference on Human Factors in Computing Systems (CHI)*, 2021.

27. Sachin Pendse, Amit Sharma, **Aditya Vashistha**, Munmun De Choudhury, and Neha Kumar, "Can I Not Be Suicidal On a Sunday?": Understanding Technology-Mediated Pathways to Mental Health Support, In *ACM Conference on Human Factors in Computing Systems (CHI)*, 2021. **Best Paper Award**

28. Farhana Shahid, Shahinul Hoque Ony, Takrim Rahman Albi, Sriram Chellappan, **Aditya Vashistha**, and A. B. M. Alim Al Islam, Learning from Tweets: Opportunities and Challenges to Inform Policy Making During Dengue Epidemic, In *Proceedings of the ACM on Human-Computer Interaction: Vol. 4, Issue CSCW1, Article 65*, 2020. **Best Paper Honorable Mention Award**

29. Rama Adithya Varanasi, **Aditya Vashistha**, Tapan Parikh, and Nicola Dell, Challenges and Issues Integrating Smartphones into Teacher Support Programs in India, In *International Conference on Information and Communication Technologies and Development (ICTD)*, 2020.

30. **Aditya Vashistha**, Richard Anderson, and Shrirang Mare, Examining the Use and Non-Use of Mobile Payment Systems for Merchant Payments in India, In *ACM SIGCAS Conference on Computing and Sustainable Societies (COMPASS)*, 2019.

31. Fahad Pervaiz, **Aditya Vashistha**, and Richard Anderson, Examining the Challenges in Development Data Pipeline, In *ACM SIGCAS Conference on Computing and Sustainable Societies (COMPASS)*, 2019.

32. **Aditya Vashistha**, Abhinav Garg, and Richard Anderson, ReCall: Crowdsourcing on Basic Phones to Financially Sustain Voice Forums, In *ACM Conference on Human Factors in Computing Systems (CHI)*, 2019.

33. **Aditya Vashistha**, Abhinav Garg, Richard Anderson, and Agha Ali Raza, Threats, Abuses, Flirting, and Blackmail: Gender Inequity in Social Media Voice Forums, In *ACM Conference on Human Factors in Computing Systems (CHI)*, 2019.

34. Matt Ziegler, Lokesh Garg, Shailesh Tiwary, **Aditya Vashistha**, and Kurtis Heimerl, Fresh Insights: User Research Towards a Market Information Service for Bihari Vegetable Farmers, In *International Conference on Information and Communication Technologies and Development (ICTD)*, 2019.

35. **Aditya Vashistha**, Richard Anderson, and Shrirang Mare, Examining Security and Privacy Research in Developing Regions, In *ACM SIGCAS Conference on Computing and Sustainable Societies (COMPASS)*, 2018.

36. **Aditya Vashistha**, Pooja Sethi, and Richard Anderson, BSpeak: An Accessible Voice-based Crowdsourcing Marketplace for Low-Income Blind People, In *ACM Conference on Human Factors in Computing Systems (CHI)*, 2018.

37. **Aditya Vashistha**, Fabian Okeke, Richard Anderson, and Nicola Dell, "You Can Always Do Better!" The Impact of Social Proof on Participant Response Bias, In *ACM Conference on Human Factors in Computing Systems (CHI)*, 2018.

38. Naveena Karusala, Aditya Vishwanath, **Aditya Vashistha**, Sunita Kumar, and Neha Kumar, "Only if you use English you will get to more things": Using Smartphones to Navigate Multilingualism, In *ACM Conference on Human Factors in Computing Systems (CHI)*, 2018.

39. **Aditya Vashistha**, Neha Kumar, Anil Mishra, and Richard Anderson, Examining Localization Approaches for Community Health, In *ACM SIGCHI Conference on Designing Interactive Systems (DIS)*, 2017.

40. **Aditya Vashistha**, Pooja Sethi, and Richard Anderson, Respeak: A Voice-based, Crowd-powered Speech Transcription System, In *ACM Conference on Human Factors in Computing Systems (CHI)*, 2017. **Best Paper Honorable Mention Award**

41. **Aditya Vashistha** and Richard Anderson, Technology Use and Non-use by Low-income Blind People in India, In *ACM SIGACCESS Accessibility and Computing Newsletter: Issue 116 (SIGACCESS)*, 2016.

42. **Aditya Vashistha**, Neha Kumar, Anil Mishra, and Richard Anderson, Mobile Video Dissemination for Community Health, In *International Conference on Information and Communication Technologies and Development (ICTD)*, 2016.

43. **Aditya Vashistha**, Ed Cutrell, Nicola Dell, and Richard Anderson, Social Media Platforms for Low-Income Blind People in India, In *ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*, 2015. **Best Student Paper Award**

44. **Aditya Vashistha**, Rajan Vaish, Ed Cutrell, and Bill Thies, The Whodunit Challenge: Mobilizing the Crowd in India, In *International Conference on Human-Computer Interaction (INTERACT)*, 2015.

45. **Aditya Vashistha**, Ed Cutrell, Gaetano Borriello, and Bill Thies, Sangeet Swara: A Community-Moderated Voice Forum in Rural India, In *ACM Conference on Human Factors in Computing Systems (CHI)*, 2015. **Best Paper Award**

46. **Aditya Vashistha**, Ed Cutrell, and Bill Thies, Increasing the Reach of Snowball Sampling: The Impact of Fixed versus Lottery Incentives, In *ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*, 2015.

47. **Aditya Vashistha**, Erin Brady, Bill Thies, and Ed Cutrell, Educational Content Creation and Sharing by Low-Income Visually Impaired People in India, In *ACM Symposium on Computing for Development (DEV)*, 2014.

48. Mohamed Gulaid and **Aditya Vashistha**, Ila Dhageyso: An Interactive Voice Forum to Foster Transparent Governance in Somaliland, In *International Conference on Information and Communication Technologies and Development (ICTD)*, 2013.

49. Rijurekha Sen, Andrew Cross, **Aditya Vashistha**, Venkat Padmanabhan, Ed Cutrell and Bill Thies, Accurate Speed and Density Measurement for Road Traffic in India, In *ACM Symposium on Computing for Development (DEV)*, 2013.

50. Karthikeyan Balaji Dhanapal, K Sai Deepak, Saurabh Sharma, Sagar Prakash Joglekar, Aditya Narang, **Aditya Vashistha**, Paras Salunkhe, Harikrishna G. N. Rai, Arun Agrahara Somasundara and Sanjoy Paul, An Innovative System for Remote and Automated Testing of Mobile Phone Applications, In *Annual SRII Global Conference (SRII)*, 2012.

51. **Aditya Vashistha**, Rajarathnam Nallusamy and Sanjoy Paul, NoMark: A Novel Method for Copyright Protection of Digital Videos Without Embedding Data, In *International Symposium on Multimedia (ISM)*, 2010.

52. **Aditya Vashistha**, Rajarathnam Nallusamy and Sanjoy Paul, 2PASCD: An Efficient 2-Pass Abrupt Scene Change Detection Algorithm, In *International Conference on Multimedia Information Networking and Security (MINES)*, 2010.

Refereed Workshop Publications

53. **Aditya Vashistha**, Doctor on DVD: Virtual Health Consultation Using Interactive DVDs, In *Networked Healthcare Technology Workshop at International Conference on Communication System and Networks (COM-SNETS)*, 2014.

54. **Aditya Vashistha**, Ed Cutrell and Bill Thies, Mapping Interactive Voice Response Call Data in Developing Regions, In *Workshop on Geographic Human-Computer Interaction at ACM Conference on Human Factors in Computing Systems (CHI)*, 2013.

55. **Aditya Vashistha** and Bill Thies, IVR Junction: Building Scalable and Distributed Voice Forums in the Developing World, In *ACM Workshop on Networked Systems for Developing Regions (NSDR)*, 2012.

56. **Aditya Vashistha**, Rajarathnam Nallusamy, Amitabha Das and Sanjoy Paul, Watermarking Video Content Using Visual Cryptography and Scene Averaged Image, In *International Workshop on Content Protection and Forensics at International Conference on Multimedia and Expo (ICME)*, 2010.

Refereed Poster Abstracts, Demos and Other Short Publications

57. Krittika D'Silva, Meghana Marathe, **Aditya Vashistha**, Gaetano Borriello, and Bill Thies, A Mobile Application for Interactive Voice Forums: Design and Pilot Deployment in Rural India, Poster In *ACM Symposium on Computing for Development (DEV)*, 2014.

58. **Aditya Vashistha**, Ed Cutrell and Bill Thies, IVR Junction: Deploying Social, Scalable and Distributed Voice Forums in the Developing World, Demo In *International Conference on Information and Communication Technologies and Development (ICTD)*, 2013.

59. **Aditya Vashistha** and Bill Thies, How Should Users Convey their Location to an Interactive Voice Response System, Poster In *ACM Symposium on Computing for Development (DEV)*, 2013.

60. Pranav Ramkrishnan, **Aditya Vashistha**, Ed Cutrell and Bill Thies, DocTalk: Extending Doctors' Reach with Personalized Voice Messages, Poster In *ACM Symposium on Computing for Development (DEV)*, 2013.

Book Chapters

61. **Aditya Vashistha** and Agha Ali Raza, Voice Interfaces for Underserved Communities, In *Introduction to Development Engineering*, Springer, 2022.

Position Papers

62. **Aditya Vashistha**, Rashmi Kanthi, and Richard Anderson, Community-Led Video Education for Digital Financial Services in India, In *HCI Across Borders Symposium* at *ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, 2017.

63. **Aditya Vashistha**, Agha Ali Raza, Umar Saif, Roni Rosenfeld, and Richard Anderson, Changing Perceptions of Citizens of India and Pakistan, In *Development Consortium: HCI Across Borders Workshop* at *ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, 2016.

64. **Aditya Vashistha**, IVR Junction: Addressing Communication Needs of Displaced Communities, In *Workshop on Robust Socio-technical Architectures in Support of Displaced Persons*, 2013.

65. **Aditya Vashistha** and Rajarathnam Nallusamy, Voice Based Social Media and Information Delivery System for Farmers, In *Workshop on Mobile and Web Technologies in Social and Economic Development* at *Mobile for Development Conference (M4D)*, 2012.

Magazine Articles

66. **Aditya Vashistha**, Umar Saif, and Agha Ali Raza, The Internet of the Orals: Past, Present, and Future, In *Communications of the ACM (CACM)*, 2019.

67. **Aditya Vashistha** and Bill Thies, IVR Junction: Connecting Unheard Voices to Global Social Media, In *The Huffington Post*, 2013.

Thesis

68. Social Computing for Social Good in Low-Resource Environments, Ph.D. Thesis, In *The Paul G. Allen School of Computer Science and Engineering, University of Washington*, 2019.

Patents

69. Methods, Systems and Computer-Readable Media for Detecting Scene Changes in a Video, US 8947600 B2, 2015.

70. Method and System for Efficient Watermarking of Digital Video, US 8379911 B2, 2013.

Funding

2024 Cornell Center for Data Science Thought Summit Grant. $40,000.
2024 Microsoft Accelerating Foundation Models Evaluation Grant. $35,000. (*$30,000 in Azure credits*)
2024 Einaudi Seed Grant Award. $10,400.
2024 CCSS Grant. $2,000.
2024 CCSS Faculty Fellowship. $10,000.
2023 Cornell ELI Undergraduate Research Funding. $1,125.
2023 LinkedIn Research Award. $2,000.
2023 Atkinson Venture Fund. $149,745.
2023 Microsoft Research Award. $55,000.
2023 PCCW Affinito-Stewart Award. $9,800.
2023 Einaudi Seed Grant. $10,300.
2023 Cornell Center for Social Science Grant. $8,250.
2023 Cornell ELI Undergraduate Research Funding. $1,850.
2022 LinkedIn Research Award. $2,000.
2022 Cornell REFRESH Initiative. $1,250.
2022 Microsoft Research Award. $49,000.
2021 Cornell Global Public Voices Faculty Fellowship. $1,000.
2021 Cornell Center for Health Equity (*with Naaman, Giroux, Scales, DeRosa*). $50,000.
2020 Rapid Respond Fund, Cornell Atkinson Center for Sustainability. $10,000.
2020 Google Faculty Research Award. $73,700.
2016 Facebook Graduate Fellowship. $74,000.
2014 Tech Challenge Seed Grant from USAID. $50,000.
2014 Facebook Access Innovation Award. $10,000.
2014 SIGACCESS Scholarship in Computers and Accessibility Award. $2,000
2013 Tech Challenge for Atrocity Prevention by USAID and Humanity United. $7,000.

Talks

Towards Culturally Aware AI
2024 Indian Institute of Management, Bangalore (India).
2023 Lecture Series Cornell South Asia Program, Ithaca (USA).
2023 Human Computer Interaction Consortium (HCIC), Delavan (USA).
2023 BURE Program, Cornell Computing and Information Science, Ithaca (USA).
2023 Cornell Hack4Impact Club, Ithaca (USA).
2023 AI Seminar, Cornell Tech, New York (USA).
2023 IS PhD Student Retreat, Cornell Tech, New York (USA).

Social Computing for Social Good in Low-Resource Environments
2021 Cornell Hack4Impact Club.
2021 63rd Annual Conference of Western Association of Graduate School (Virtual).
2019 University of Washington, Seattle (USA).
2019 Wadhwani AI, Mumbai (India).
2019 Microsoft Research India, Bangalore (India).
2019 University of Maryland, College Park (USA).
2019 Microsoft Research, Redmond (USA).

2019 Cornell University, Ithaca (USA).
2019 Penn State University, State College (USA).
2019 University of California Irvine, Irvine (USA).
2019 Simon Fraser University, Burnaby (Canada).
2019 University of Massachusetts Amherst, Amherst (USA).

Misinformation in Low-Resource Environments
2022 3rd Annual Health Equity Symposium, New York (USA).
2020 Cornell Atkinson Advisory Council (Virtual).
2020 Cornell COVID-19 Summit (Virtual).

Ins and Outs of a PhD Program
2023 Microsoft Research India, Bangalore (India).
2022 Microsoft Research India (Virtual).
2021 Microsoft Research India (Virtual).
2020 Microsoft Research India (Virtual).
2019 Microsoft Research, Bangalore (India).

Private Saving Practices of Women in Rural India
2018 Gender and Digital Financial Services Workshop, Seattle (USA).

BSpeak: An Accessible Crowdsourcing Marketplace for Low-Income Blind People
2018 Mechanism Design for Social Good Research Group, Online.
2018 ACM CHI conference talk, Montreal (Canada).

The Impact of Social Proof on Participant Response Bias
2018 Mechanism Design for Social Good Research Group, Online.
2018 ACM CHI conference talk, Montreal (Canada).

Respeak: A Voice-based, Crowd-powered Speech Transcription System
2017 Facebook Fellows Workshop, Menlo Park (USA).
2017 ACM CHI conference talk, Denver (USA).
2016 UW CSE Industry Affiliates Program, Seattle (USA).

Accessibility Research in the Developing World
2016 Keynote talk at UW-MSR Summer Institute on Expanding Accessibility Research, Union (USA).

Mobile Video Dissemination for Community Health
2016 ICTD conference talk, Ann Arbor (USA).
2016 UW Change Seminar, Seattle (USA).

Social Media Platforms for Low-Income Blind People in India
2015 ACM ASSETS conference talk, Lisbon (Portugal).
2015 UW Change Seminar, Seattle (USA).

Sangeet Swara: A Community Moderated Voice Forum in Rural India
2015   ACM CHI conference talk, Seoul (Korea).
2015   UW Change Seminar, Seattle (USA).

Social Computing Platforms in the Developing World
2018   ICTD Course, Professional Master's Program at UW CSE, Seattle (USA).
2015   UW Qualifying Evaluation Examination Presentation, Seattle (USA).
2015   Computing and Global Health Course, Professional Master's Program at UW CSE, Seattle (USA).

Educational Content Creation and Sharing by Low-Income Blind People in India
2015   UW Accessibility Seminar, Seattle (USA).
2014   ACM DEV conference talk, San Jose (USA).
2014   UW Change Seminar, Seattle (USA).

Empowering Rural India through Information Technologies
2014   IIT-Bombay, Mumbai (India).
2014   UNICEF India Consultation, Mobiles for Social and Behavior Change, Lucknow (India).

Social Media for Next Billion People
2014   Pakistan-ICTD Workshop, Lahore (Pakistan).
2014   RightsCon conference, San Francisco (USA).
2014   Facebook Headquarters, Menlo Park (USA).

Robust and Scalable Communication Platform for Crisis Scenarios
2013   Panel talk at International Conference of Crisis Mappers, Nairobi (Kenya).

Building and Deploying Voice Forums for Information Access and Transparency
2013   Voice of America and Broadcasting Board of Governors office, Washington DC (USA).
2013 USAID Office of Innovation and Development Alliances (IDEA), Washington DC (USA).
2013   Right to Information and Transparency in the Digital Age, Stanford (USA).
2013   UW Change Seminar, Seattle (USA).

IVR Junction: Building Scalable and Distributed Voice Forums
2013   Panel talk, ICTD conference, Cape Town (South Africa).
2013   mBillionth Award South Asia, New Delhi (India).
2013   TechCamp Mumbai organized by US Department of State, Mumbai (India).
2013   Keynote speaker, Sociobator Creatives, Bangalore (India).
2013   Pakistan-ICTD Workshop, Lahore (Pakistan).
2012   Enzen Global, Bangalore (India).
2012   Greenpeace, Bangalore (India).
2012   The Rockefeller Foundation Bellagio Center, Bellagio (Italy).
2012   Workshop on Mobile Data Collection in the Developing World, Bangalore (India).
2012   ACM Workshop on Networked Systems for Developing Regions, Boston (USA).
2012   Mobile for Development conference, New Delhi (India).

Mapping Interactive Response Call Data in the Developing World

2013 Workshop on Geographic Human-Computer Interaction at CHI, Paris (France).

Voice-Based Social Media and Information Delivery System for Farmers
2012 Mobile for Development Conference, New Delhi (India).
2011 Enzen Global, Bangalore (India).

A Novel Method for Copyright Protection of Digital Videos without Embedding Data
2010 Conference talk, IEEE International Symposium on Multimedia, Taichung (Taiwan).

An Efficient 2-Pass Abrupt Scene Change Detection Algorithm
2010 Conference talk, International Conference on Multimedia Information Networking and Security, Nanjing (China).

Advising

Postdocs/ARPs
Aleksandr Michuda, Cornell Center for Data Science for Enterprise and Society (2021–)

Ph.D. Advisees
Dhruv Agarwal, Information Science (2022–)
Ian René Solano-Kamaiko,Information Science (2022-)
Farhana Shahid, Information Science (2021–)
Mahika Phutane, Computer Science (2020–)
Joy Ming, Information Science (2020–)
Sharon Heung, Information Science (2020–)
Dibyendu Mishra, Information Science (2023–2024)
Rama Adithya Varanasi, Information Science (2019–2023) — *Postdoc, NYU Tandon School of Engineering*
Chinasa T. Okolo, Computer Science, (2020–2023) — *METEOR Postdoc, MIT CSAIL*

Ph.D. Committee Membership
Lucy Jiang, Computer Science (2023–)
Pelinsu Çiftçiolu, Information Science (2023–)
Liam Albright, Information Science (2022–)
Janet Chen, Information Science (2022)
Matt Ziegler, University of Washington Computer Science (2022) — *Postdoc, University of Washington*
Anthony Poon, Information Science (2021–2022) — *Senior Technical Advisor, UW I-TECH*

Master's Students
Jiamin Tu (2024–)
Jai Khanna (2022–2023)
Tanuj Chawla (2022)
Annie Sidotam (2021)
Srujana Kamath (2020–2021)
Anmol Rajal Anubhai (2018)
Jared Moore (2017–2018)
Abhinav Garg (2017–2018)

Undergraduate Students
Maximilian Dittgen (2024–)

Iman Kiio (2024–)
Ananya Seelam (2022–)
Miyuki Goay (2022)
Connie Liu (2022)
Katie Go (2021)
Priya Pradhan (2021)
Madeline Praga (2021)
Rishitha Thambireddy (2021)
Vivian Jiang (2020–2021)
Alexa Batino (2020–2021)
Sarrah Ali (2020)
Mrinal Sharma (2017–2018)
Pooja Sethi (2014–2017) — *Best Undergraduate Honors Thesis Award*
Divya Cherukupalli (2016)
Atul Pai (2014)
Radu Cracut (2014)

High School Students
Khushi Chaudhari, Redmond High School (2017)

Hack4Impact Club
I am the faculty director of Hack4Impact, a club at Cornell in which students work with external organizations in Upstate New York and beyond to get hands-on experience in designing technologies for social good. So far, 78 students (over 50% women) have participated in club activities.

Service

Organizing Committee
2022   ACM Information and Communication Technologies and Development (ICTD)
2021   Disability Design and Innovation Workshop at ACM Human Factors in Computing Systems (CHI)
2018–2019   HCI Across Borders Symposium at ACM Human Factors in Computing Systems (CHI)
2019   ACM Information and Communication Technologies and Development (ICTD)
2018   ACM Computing and Sustainable Societies (COMPASS)
2013–2014   Pakistan-ICTD Workshop

Technical Program Chair
2024   ACM Computing and Sustainable Societies (COMPASS)

Program Committee
2023–2024   Area Editor, ACM Journal on Computing and Sustainable Societies (COMPASS)
2021–2024   ACM Human Factors in Computing Systems (CHI)
2020–2024   ACM Computer Supported Cooperative Work and Social Computing (CSCW)
2019–2022   ACM Computing and Sustainable Societies (COMPASS)
2017–2022   ACM Information and Communication Technologies and Development (ICTD)

Reviewer
2022   BRAC Institute of Governance and Development WEE-DiFine Grant
2021   NSF Panel
2013, 2015–2020   ACM Human Factors in Computing Systems (CHI)
2017–2019   ACM Computer Supported Cooperative Work and Social Computing (CSCW)

2014, 2019   ACM Pervasive and Ubiquitous Computing (UbiComp)
2017–2018   Journal of ACM Transactions on Computer-Human Interaction (TOCHI)
2018   ACM Computing and Sustainable Societies (COMPASS)
2018   ACM Designing Interactive Systems (DIS)
2017   International Journal of Human-Computer Studies (IJHCS)
2014   ACM Symposium on User Interface Software and Technology (UIST)

University Service
2024   Selection Committee, South Asia Program International Research Travel Grant, Cornell University
2024   Selection Committee, Einaudi Global PhD Research Grants , Cornell University
2022–Present   Colloquium Coordinator, Department of Information Science, Cornell University
2020–Present   Graduate Committee, Department of Information Science, Cornell University
2020–Present   Faculty Advisor, Hack4Impact Club, Cornell University
2020–Present   Faculty Advisor, Cornell Engineering, Cornell University
2019–2020   Undergraduate committee, Cornell University
2018   Co-organizer, DUB Doctoral Consortium, University of Washington
2018   Graduate Admissions Committee, Computer Science and Engineering, University of Washington
2014–2017   Graduate Student Coordinator, Computer Science and Engineering, University of Washington

Teaching

INFO 4505 Computing and Global Development, Cornell University
Spring 2024, Fall 2022, Fall 2021, Fall 2020 *(Instructor)*

INFO 6600 Technology for Underserved Communities, Cornell University
Spring 2023, Spring 2022, Spring 2021, Spring 2020 *(Instructor)*

INFO 7905 Information Science PhD Professionalization Seminar
Fall 2023 *(Instructor)*

ENGRG 3400: Engineering Student Project Teams: Hack4Impact
Fall 2023, Spring 2023, Fall 2022

CSE 590 ICT and International Development, University of Washington
Fall 2017, Spring 2016 *(Teaching Assistant)*

CSEP 590B ICTD: A Development Engineering Approach, University of Washington
Spring 2020 *(Guest Lecturer)*

INFO 6940 Technology and Social Justice, Cornell University
Spring 2020 *(Guest Lecturer)*

CSEP 590B Computing & Global Health, University of Washington
Winter 2015 *(Guest Lecturer)*

Public Release of Software Artifacts and Datasets

2013   IVR Junction, Apache 2.0 license
IVR Junction offers flexible and robust voice-based communication by connecting an IVR system to cloud services such as YouTube, Facebook and other social media. IVR Junction has been used by several leading media and global development organizations, e.g., the US Agency for Global Media, the Government of Somaliland, Microsoft, the University of Washington, etc.

2022 #DisabledOnIndianTwitter

#DisabledOnIndianTwitter is a human-annotated dataset comprising thousands of tweets published by disabled creators in India that uses multi-level, multiclass thematic classification to identify content representing themes like discrimination, advocacy, and harassment.