

# Aditya Vashistha

Cornell University  
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## Research Interests

My research aims to design, build, and evaluate appropriate computing systems to improve socioeconomic outcomes for low-income communities globally. More broadly, my research interests are in Human-Computer Interaction (HCI), ICT & Development (ICTD), and Responsible Artificial Intelligence (RAI).

## Appointments

### Cornell University

Cornell Bowers College of Computing and Information Science  
Assistant Professor (2019–)

### University of Washington

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

### Microsoft Research

Visiting Researcher, Technology for Emerging Markets (2019, 2022)  
Visiting Researcher, Ability (2019)  
Research Intern, Technology for Emerging Markets (2014)  
Assistant Researcher, Technology for Emerging Markets (2011–2013)

### Infosys Labs

Systems 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

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 Tech Challenge Seed Grant from USAID (\$50,000)  
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 Humanity 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. 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.
2. 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.
3. Ishani Mondal, Sukhmidh 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 (ACL-IJCNLP)*, 2022.

4. 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.
5. 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.
6. 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.
7. 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.
8. Agha Ali Raza, Mustafa Naseem, Namooos 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.
9. 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.
10. 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.
11. 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.
12. 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**
13. 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.
14. 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**
15. 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.
16. 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.

17. 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.
18. 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.
19. 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**
20. 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**
21. 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.
22. **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.
23. 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.
24. **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.
25. **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.
26. 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.
27. **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.
28. **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.
29. **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.
30. 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.

31. **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.
32. **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**
33. **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.
34. **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.
35. **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**
36. **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.
37. **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**
38. **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.
39. **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.
40. 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.
41. 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.
42. 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.
43. **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.
44. **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

45. **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.
46. **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.
47. **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.
48. **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

49. 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.
50. **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.
51. **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.
52. 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

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

## Position Papers

54. **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.
55. **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.
56. **Aditya Vashistha**, IVR Junction: Addressing Communication Needs of Displaced Communities, In *Workshop on Robust Socio-technical Architectures in Support of Displaced Persons*, 2013.

57. **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

58. **Aditya Vashistha**, Umar Saif, and Agha Ali Raza, The Internet of the Orals: Past, Present, and Future, In *Communications of the ACM (CACM)*, 2019.
59. **Aditya Vashistha** and Bill Thies, IVR Junction: Connecting Unheard Voices to Global Social Media, In *The Huffington Post*, 2013.

## Thesis

60. 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

61. Methods, Systems and Computer-Readable Media for Detecting Scene Changes in a Video, US 8947600 B2, 2015.
62. Method and System for Efficient Watermarking of Digital Video, US 8379911 B2, 2013.

## Funding

- 2022–2023** LinkedIn Research Award. \$2,000.
- 2022–2023** Cornell REFRESH Initiative. \$1,250.
- 2022–2023** Microsoft Research Award. \$49,000.
- 2021–2022** Cornell Global Public Voices Faculty Fellowship. \$1,000.
- 2021–2022** Cornell Center for Health Equity (*with Naaman, Giroux, Scales, DeRosa*). \$50,000.
- 2020–2021** Rapid Respond Fund, Cornell Atkinson Center for Sustainability. \$10,000.
- 2020–2021** Google Faculty Research Award. \$73,700.
- 2016–2018** Facebook Graduate Fellowship. \$74,000.
- 2014–2017** Tech Challenge Seed Grant from USAID. \$50,000.
- 2014–2015** Facebook Access Innovation Award. \$10,000.
- 2014–2015** SIGACCESS Scholarship in Computers and Accessibility Award. \$2,000
- 2013–2014** Tech Challenge for Atrocity Prevention by USAID and Humanity United. \$7,000.

## Talks

### 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** Wadhvani 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**

- 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– )

Joy Ming, Information Science (2020– )

Sharon Heung, Information Science (2020– )

Chinasa T. Okolo, Computer Science, (2020– )

Rama Adithya Varanasi, Information Science (2019– )

**Ph.D. Committee Membership**

Liam Albright, Information Science (2022– )

Mahika Phutane, Computer Science (2022– )

Janet Chen, Information Science (2022)

Matt Ziegler, University of Washington Computer Science (2022)

Anthony Poon, Information Science (2021–2022)

**Master's Students**

Tanuj Chawla (2022–)

Jai Khanna (2022–)

Annie Sidotam (2021)

Srujana Kamath (2020–2021)

Anmol Rajal Anubhai (2018)

Jared Moore (2017–2018)

Abhinav Garg (2017–2018)

**Undergraduate Students**

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)

## Service

### Organizing Committee

2022 ACM Information and Communication Technologies and Development (ICTD)  
2021 Disability Design and Innovation in Low Resource Settings 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

### Program Committee

2023 Area Editor, ACM Journal on Computing and Sustainable Societies (COMPASS)  
2021–2023 ACM Human Factors in Computing Systems (CHI)  
2020–2023 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

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**

Fall 2022, Fall 2021, Fall 2020 (*Instructor*)

**INFO 6600 Technology for Underserved Communities, Cornell University**

Spring 2023, Spring 2022, Spring 2021, Spring 2020 (*Instructor*)

**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

**2013** **IVR Junction**, Apache 2.0 license, <http://www.ivrjunction.org>

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.