

# Nicola Dell

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## Research Interests

My research interests are in human-computer interaction (HCI), computer security and privacy (S&P), and information and communication technologies and development (ICTD). My goal is to design, build, deploy, and evaluate computing technologies that improve the lives of underserved communities in the US and around the world.

## Education

**2015 Ph.D., Computer Science and Engineering**  
University of Washington, Seattle, WA

**2011 M.S., Computer Science and Engineering**  
University of Washington, Seattle, WA

**2004 B.Sc., Computer Science (First Class Honors)**  
University of East Anglia, Norwich, UK  
Year abroad at the University of Victoria, BC, Canada

## Appointments

**2022 - present. Associate Professor (with tenure)**  
Department of Information Science & the Jacobs Technion-Cornell Institute at Cornell Tech  
Cornell University

**2022 - present. Director of Technology Innovation**  
Initiative on Home Care Work in the Yang-Tan WorkABILITY Incubator  
Center for Applied Research on Work (CAROW), Cornell School of Industrial and Labor Relations

**2018 - present. Co-Founder and Co-Director**  
Clinic to End Tech Abuse (CETA) at Cornell Tech

**2023. Siegel PiTech Faculty Impact Fellow**  
Public Interest Technology (PiTech) Initiative at Cornell Tech

**2016 - 2021. Assistant Professor (tenure track)**  
Department of Information Science & the Jacobs Technion-Cornell Institute at Cornell Tech

### Research Intern

2013. Computational User Experience group, Microsoft Research Redmond  
2011. Technology for Emerging Markets group, Microsoft Research India

## Academic Awards

2024 Community-Engaged Practice and Innovation Award, David M. Einhorn Center at Cornell  
 2023 Diversity and Inclusion Recognition, ACM CSCW  
 2023 Distinguished Paper Award, USENIX Security  
 2023 JP Morgan Faculty Research Award  
 2023 Two Google Cyber NYC Awards (two independent awards for different projects)  
 2023 Ann S. Bowers Research Excellence Award, Cornell CIS  
 2023 Societal Impact Award, ACM SIGCHI  
 2022 Google Award for Inclusion Research  
 2022 Best Paper Award, ACM CHI  
 2021 JP Morgan Faculty Research Award  
 2021 Diversity and Inclusion Recognition, ACM CSCW  
 2020 Best Paper Award, ACM CSCW  
 2020 Distinguished Paper Award, USENIX Security  
 2020 Internet Defense Prize (third place), USENIX Security  
 2020 Google Faculty Research Award  
 2019 Advocate of New York City Award  
 2019 Diversity and Inclusion Recognition, ACM CSCW  
 2019 Best Paper Honorable Mention, ACM CSCW  
 2019 Distinguished Paper Award, USENIX Security  
 2019 Best Paper Honorable Mention, ACM COMPASS  
 2018 Facebook "Secure the Internet" Award  
 2018 NSF CAREER Award  
 2018 Two Best Paper Awards, ACM CHI (two independent awards for different papers)  
 2018 Google Faculty Research Award  
 2017 Best Paper Honorable Mention, ACM CHI  
 2016 Distinguished Dissertation Award, University of Washington Graduate School  
 2016 Best Paper Honorable Mention, ACM CHI  
 2015 Best Student Paper Award, ACM ASSETS  
 2014 Graduate Student Research Competition Winner, ACM CHI  
 2013 Facebook Graduate Fellowship  
 2013 Society of Women Engineers Outstanding Female Engineer Award  
 2013 Palantir Scholarship for Women in Technology  
 2012 Google Anita Borg Scholarship  
 2002 University of East Anglia Prize for Distinguished Performance  
 2001-2004 University of East Anglia International Student Scholarship

## Refereed Conference and Journal Publications<sup>1</sup>

1. Ian René Solano-Kamaiko, Dibyendu Mishra, **Nicola Dell**, and Aditya Vashistha. 2024. Explorable Explainable AI: Improving AI Understanding for Community Health Workers in India. ACM Conference on Human Factors in Computing Systems (CHI).
2. Rama Adithya Varanasi, **Nicola Dell**, and Aditya Vashistha. 2024. Saharaline: A Collective Social Support Intervention for Teachers in Low-Income Indian Schools. ACM Conference on Human Factors in Computing Systems (CHI).

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<sup>1</sup>Top-tier publication venues in HCI research include the ACM conferences CHI and CSCW. Top-tier venues in security and privacy research include the conferences IEEE Security and Privacy (Oakland) and USENIX Security Symposium. Students are typically named first and faculty/senior authors last in computer science and HCI research.

3. Andrea Cuadra, Maria Wang, Lynn Andrea Stein, Malte F Jung, **Nicola Dell**, Deborah Estrin, and James A. Landay. 2024. The Illusion of Empathy? Notes on Displays of Emotion in Human-Computer Interaction. ACM Conference on Human Factors in Computing Systems (CHI).
4. Emily Tseng, Rosanna Bellini, Yeuk Yu Lee, Alana Ramjit, Thomas Ristenpart, and **Nicola Dell**. 2024. Data Stewardship in Clinical Computer Security: Balancing Benefit and Burden in Participatory Systems. Proceedings of the ACM on Human-Computer Interaction, Vol. 8, CSCW1, Article 39.
5. Chinasa T. Okolo, Dhruv Agarwal, **Nicola Dell**, and Aditya Vashistha. 2024. "If it is easy to understand then it will have value": Examining Perceptions of Explainable AI with Community Health Workers in Rural India. Proceedings of the ACM on Human-Computer Interaction, Vol. 8, Issue CSCW1, Article 71.
6. Joy Ming, Dana Gong, Chit Sum Eunice Ngai, Madeline Sterling, Aditya Vashistha, and **Nicola Dell**. 2024. Wage Theft and Technology in the Home Care Context. Proceedings of the ACM on Human-Computer Interaction, Vol. 8, Issue CSCW1, Article 151.
7. Rosanna Bellini, Emily Tseng, Noel Warford, Alaa Daffalla, Tara Matthews, Sunny Consolvo, Jill Woelfer, Patrick Gage Kelley, Michelle Mazurek, Dana Cuomo, **Nicola Dell**, and Thomas Ristenpart. 2024. SoK: Safer Digital-Safety Research Involving At-Risk Users. IEEE Symposium on Security and Privacy (Oakland).
8. Bensson-Ravunnarath M, Bryan Ringel J, Avgar A, Wiggins F, Lee A, McDonald MV, Guerrero LR, Kallas J, Gusoff G, Shen M, Tseng E, **Dell N**, Czaja S, Lindquist LA, Sterling MR. 2023. Having a Say Matters: The Association Between Home Health Aides' Voice and Job Satisfaction. Risk Management and Healthcare Policy. 2023;16:1791-1800.
9. Alaa Daffalla, Marina Sanusi Bohuk, **Nicola Dell**, Rosanna Bellini, and Thomas Ristenpart. 2023. Account Security Interfaces: Important, Unintuitive, and Untrustworthy. USENIX Security Symposium (USENIX Security'23).  
[Distinguished Paper Award](#)
10. Andrea Cuadra, Jessica Bethune, Rony Krell, Alexa Lempel, Katrin Hänsel, Armin Shahrokni, Deborah Estrin, and **Nicola Dell**. 2023. Designing Voice-First Ambient Interfaces to Support Aging in Place. ACM Designing Interactive Systems (DIS).
11. Vince Bartle, Liam Albright, and **Nicola Dell**. 2023. "This machine is for the aides": Tailoring Voice Assistant Design to Home Health Care Work. ACM Conference on Human Factors in Computing Systems (CHI). Article No.: 227, pp 1–19.
12. Anthony Poon, Lourdes Guerrero, Julia Loughman, Matthew Luebke, Ann Lee, Madeline Sterling, and **Nicola Dell**. 2023. Designing for Peer-Led Critical Pedagogies in Computer-Mediated Support Groups for Home Care Workers. ACM Conference on Human Factors in Computing Systems (CHI). Article No.: 414, pp 1–18.
13. Jacklyn Cho, Brittany Toffey, Ariel F. Silva, Ariel Shalev, Monika M. Safford, Erica Phillips, Ann Lee, Faith Wiggins, Elissa Kozlov, Emma K. Tsui, **Nicola Dell**, Ariel C. Avgar, Susan J. Andreae, and Madeline R. Sterling. 2023. "To care for them, we need to take care of ourselves": A qualitative study on the health of home health aides. Health Services Research.
14. Joy Ming, Elizabeth F Kuo, Katie Go, Emily Tseng, John Kallas, Aditya Vashistha, Madeline Sterling, and **Nicola Dell**. 2023. "I Go Beyond and Beyond": Examining the Invisible Work of Home Health Aides. Proceedings of the ACM on Human-Computer Interaction, Vol. 7, Issue CSCW1, Article 59.

15. Anthony Poon, Matthew Luebke, Julia Loughman, Ann Lee, Lourdes Guerrero, Madeline Sterling, and **Nicola Dell**. 2023. Computer-Mediated Sharing Circles for Intersectional Peer Support with Home Care Workers. *Proceedings of the ACM on Human-Computer Interaction*, Volume 7, Issue CSCW1, Article No. 39.  
[Diversity and Inclusion Award](#)
16. Kallas, J., Sterling, M. R., Ajayi, O., Mulroy, E., Kuo, E., Ming, J., **Dell, N.**, & Avgar, A. C. 2022. Making a bad situation worse: Examining the challenges facing rural home care workers. *Journal of Applied Gerontology*, 42 (4), 768-775.
17. Elizabeth Kuo, Jacklyn Cho, Diana Delgado, Iredia Olaye, **Nicola Dell**, and Madeline Sterling. 2022. Understanding the technological landscape of home health aides: a scoping literature review and a landscape analysis of existing mHealth Apps. *Journal of Medical Internet Research (JMIR)*.
18. Chinasa T. Okolo, **Nicola Dell**, and Aditya Vashistha. 2022. Making AI Explainable in the Global South: A Systematic Review. *ACM SIGCAS/SIGCHI Conference on Computing and Sustainable Societies (COMPASS)*.
19. Joy Ming, Srujana Kamath, Elizabeth Kuo, Madeline Sterling, **Nicola Dell**, and Aditya Vashistha. 2022. Invisible Work in Two Frontline Health Contexts. *ACM SIGCAS/SIGCHI Conference on Computing and Sustainable Societies (COMPASS)*.
20. Andrea Cuadra, Hyein Baek, Deborah Estrin, Malte F Jung, and **Nicola Dell**. 2022. On Inclusion: Video Analysis of Older Adult Interactions with a Multi-Modal Voice Assistant in a Public Setting. *International Conference on Information & Communication Technologies & Development (ICTD)*.
21. Emily Tseng, Mehrnaz Sabet, Rosanna Bellini, Harkiran Kaur Sodhi, Thomas Ristenpart, and **Nicola Dell**. 2022. Care Infrastructures for Digital Security in Intimate Partner Violence. *ACM Conference on Human Factors in Computing Systems (CHI)*.  
[Best Paper Award](#)
22. Janet X. Chen, Allison McDonald, Yixin Zou, Emily Tseng, Kevin A Roundy, Acar Tamersoy, Florian Schaub, Thomas Ristenpart, and **Nicola Dell**. 2022. Trauma-Informed Computing: Towards Safer Technology Experiences for All. *ACM Conference on Human Factors in Computing Systems (CHI)*.
23. Vince Bartle, Janice Lyu, Freesoul El Shabazz-Thompson, Yunmin Oh, Angela Chen, Yu-Jan Chang, Kenneth Holstein, and **Nicola Dell**. 2022. "A Second Voice": Investigating Opportunities and Challenges for Interactive Voice Assistants to Support Home Health Aides. *ACM Conference on Human Factors in Computing Systems (CHI)*.
24. Rama Adithya Varanasi, Aditya Vashistha, Rene F. Kizilcec, and **Nicola Dell**. 2021. Investigating Technostress Among Teachers in Low-Income Indian Schools. *Proceedings of the ACM on Human-Computer Interaction*, CSCW Vol. 5, Issue 2, Article 340.
25. Anthony Poon, Vaidehi Hussain, Ariel C. Avgar, and **Nicola Dell**. 2021. Computer-Mediated Peer Support Needs of Home Care Workers: Emotional Labor & the Politics of Professionalism. *Proceedings of the ACM on Human-Computer Interaction*, CSCW Vol. 5, Issue 2, Article 336.  
[Diversity and Inclusion Award](#)
26. Yixin Zou, Allison McDonald, Julia Narakornpichit, **Nicola Dell**, Thomas Ristenpart, Kevin Roundy, Florian Schaub, Acar Tamersoy. 2021. The Role of Computer Security Customer Support in Helping Survivors of Intimate Partner Violence. *USENIX Security Symposium*.
27. Pranjal Jain, Rama Adithya Varanasi, and **Nicola Dell**. 2021. "Who is protecting us? No one!" Vulnerabilities Experienced by Low-Income Indian Merchants Using Digital Payments. *ACM SIGCAS Conference on Computing and Sustainable Societies (COMPASS)*.

28. Margaret C. Jack, Sopheak Chann, Steven Jackson, and **Nicola Dell**. 2021. Networked Authoritarianism at the Edge: The Digital and Political Transitions of Cambodian Village Officials. Proceedings of the ACM on Human-Computer Interaction, CSCW Vol. 5, Issue 1, Article 50.
29. Emily Tseng, Diana Freed, Kristen Engel, Thomas Ristenpart, and **Nicola Dell**. 2021. A Digital Safety Dilemma: Analysis of Remote Computer-Mediated Computer Security Interventions During COVID-19. ACM Conference on Human Factors in Computing Systems (CHI).
30. Chinasa Okolo, Srujana Kamath, **Nicola Dell**, and Aditya Vashistha. 2021. "It cannot do all my work": Community Health Worker Perceptions of AI-Enabled Mobile Health Applications in Rural India. ACM Conference on Human Factors in Computing Systems (CHI).
31. Rama Adithya Varanasi, Aditya Vashistha, and **Nicola Dell**. 2021. Tag a Teacher: A Qualitative Analysis of WhatsApp-Based Teacher Networks in Low-Income Indian Schools. ACM Conference on Human Factors in Computing Systems (CHI).
32. Kurt Thomas, Devdatta Akhawe, Michael Bailey, Dan Boneh, Elie Bursztein, Sunny Consolvo, **Nicola Dell**, Zakir Durumeric, Patrick Gage Kelley, Deepak Kumar, Damon McCoy, Sarah Meiklejohn, Thomas Ristenpart, Gianluca Stringhini. 2021. SoK: Hate, Harassment, and the Changing Landscape of Online Abuse. IEEE Symposium on Security and Privacy (Oakland).
33. Rosanna Bellini, Emily Tseng, Nora McDonald, Rachel Greenstadt, Damon McCoy, Thomas Ristenpart, and **Nicola Dell**. 2020. "So-called privacy breeds evil": Narrative Justifications for Intimate Partner Surveillance in Online Forums. Proceedings of the ACM on Human-Computer Interaction, CSCW Vol. 4, Issue 3, Article 210.  
[Best Paper Award](#)
34. Emily Tseng, Rosanna Bellini, Nora McDonald, Matan Danos, Rachel Greenstadt, Damon McCoy, **Nicola Dell**, and Thomas Ristenpart. 2020. The Tools and Tactics Used in Intimate Partner Surveillance: An Analysis of Online Infidelity Forums. USENIX Security Symposium.  
[Distinguished Paper Award; Internet Defense Prize \(third place\)](#)
35. Sterling, M.R., Tseng, E., Poon, A., Cho, J., Avgar, A.C., Kern, L.M., Ankuda, C.K., **Dell, N.** 2020. Experiences of Home Health Care Workers in New York City During the Coronavirus Disease 2019 Pandemic: A Qualitative Analysis. JAMA Internal Medicine.
36. Emrys Schoemaker, Dina Baslan, Paul Currion, Bryan Pon, and **Nicola Dell**. 2020. Identity at the Margins: Data Justice & Refugee Experiences with Digital Identity Systems in Lebanon, Jordan, & Uganda. Information Technology for Development.
37. Sterling, M.R., **Dell, N.**, Tseng, E., Okeke, F., Cho, J., Piantella, B., Tobin, J.N. 2020. Home Care Workers Caring for Adults with Heart Failure Need Better Access to Training and Technology: A Role for Implementation Science. Journal of Clinical and Translational Science.
38. Rama Adithya Varanasi, Aditya Vashistha, Tapan Parikh, and **Nicola Dell**. 2020. Challenges and issues integrating smartphones into teacher support programs in India. International Conference on Information and Communication Technologies and Development (ICTD).
39. Anthony Poon, Sarah Giroux, Parfait Eloundou-Enyegue, Francois Guimbretière, and **Nicola Dell**. 2020 Baccalauréat Practice Tests in Cameroon: The Impact of SMS-Based Exam Preparation. International Conference on Information and Communication Technologies and Development (ICTD).
40. Sterling, M.R., **Dell, N.**, Piantella, B., Cho, J., Kaur, H., Tseng, E., Okeke, F., Brown, M., Leung, P.B.K., Silva, A.F., Shaw, A.L., Kern, L.M. 2020. Understanding the Workflow of Home Healthcare for Patients with Heart Failure: Challenges and Opportunities. Journal of General Internal Medicine.

41. Emily Tseng, Fabian Okeke, Madeline Sterling, and **Nicola Dell**. 2020. "We can learn. Why not?": Challenges and Opportunities in Designing for Equity for Home Health Aides. ACM Conference on Human Factors in Computing Systems (CHI).
42. Kevin Roundy, Paula Mendelberg, **Nicola Dell**, Damon McCoy, Daniel Nissani, Thomas Ristenpart, and Acar Tamersoy. 2020. The Many Kinds of Creepware Used for Interpersonal Attacks. IEEE Symposium on Security and Privacy (Oakland).
43. Fabian Okeke, Beatrice Wasunna, Mercy Amulele, Isaac Holeman, and **Nicola Dell**. 2019. Including the Voice of Care Recipients in Community Health Feedback Loops in Rural Kenya. Proc. of the ACM on Human-Computer Interaction: Vol. 3, Issue CSCW, Article 71.
44. Margaret Jack, Pang Sovannaroeth, & **Nicola Dell**. 2019. "Privacy is not a concept, but a way of dealing with life:" Localization of Transnational Technology Platforms & Liminal Privacy Practices in Cambodia. Proc. of the ACM on Human-Computer Interaction: Vol. 3, Issue CSCW, Article 128. [Diversity and Inclusion Award](#).
45. Diana Freed, Sam Havron, Emily Tseng, Andrea Gallardo, Rahul Chatterjee, Thomas Ristenpart, and **Nicola Dell**. 2019. "Is my phone hacked?" Analyzing Clinical Computer Security Interventions with Survivors of Intimate Partner Violence. Proc. of the ACM on Human-Computer Interaction: Vol. 3, Issue CSCW, Article 202. [Best Paper Honorable Mention](#).
46. Rama Adithya Varanasi, Rene F. Kizilcec, and **Nicola Dell**. 2019. How Teachers in India Reconfigure their Work Practices around a Teacher-Oriented Technology Intervention. Proc. of the ACM on Human-Computer Interaction: Vol. 3, Issue CSCW, Article 220.
47. Havron, S., Freed, D., Chatterjee, R., McCoy, D., **Dell, N.**, and Ristenpart, T. 2019. Clinical Computer Security for Victims of Intimate Partner Violence. 28th USENIX Security Symposium.
48. Chen, C., **Dell, N.**, and Roesner, F. 2019. Computer Security and Privacy in the Interactions Between Victim Service Providers and Human Trafficking Survivors. USENIX Security Symposium. [Distinguished Paper Award](#).
49. Okeke, F., Tseng, E., Piantella, B., Brown, M., Kaur, H., Sterling, M., and **Dell, N.** 2019. Technology, Home Health Care, and Heart Failure: A Qualitative Analysis with Multiple Stakeholders. ACM Conference on Computing and Sustainable Societies (COMPASS).
50. Schoemaker, E., Kristinsdottir, S., Ahuja, T., Baslan, D., Pon, B., Currion, P., Gumisizira, P, and **Dell, N.** 2019. Identity at the Margins: Examining Refugee Experiences with Digital Identity Systems in Lebanon, Jordan, & Uganda. ACM Conference on Computing and Sustainable Societies (COMPASS). [Best Paper Honorable Mention](#).
51. Yang, L., Sobolev, M., Wang, Y., Chen, J., Dunne, A., Tsangouri, C., **Dell, N.**, Naaman, M., and Estrin, D. 2019. The Effects of User Intentions and Recommendations on Content Choices. The Web Conference (WWW).
52. Poon, A., Giroux, S., Eloundou-Enyegue, P., Guimbretiere, F., and **Dell, N.** 2019. Engaging High School Students in Cameroon with Exam Practice Quizzes via SMS and WhatsApp. ACM Conference on Human Factors in Computing Systems (CHI).
53. Ahmed S. I., Haque, M. R., Haider, I., Chen, J., and **Dell, N.** 2019. "Everyone Has Some Personal Stuff": Designing to Support Digital Privacy with Shared Mobile Phone Use in Bangladesh. ACM Conference on Human Factors in Computing Systems (CHI).



54. Okeke, F., Nene, L., Muthee, J., Odindo, S., Kane, D., Holeman, I., and **Dell, N.** 2019. Challenges and Opportunities Connecting Care Recipients to the Community Health Feedback Loop. International Conference on Information and Communication Technologies and Development (ICTD).
55. Kumar, N., and **Dell, N.** 2018. Towards Informed Practice in HCI for Development. Proceedings of the ACM on Human-Computer Interaction: CSCW, Article 99 (CSCW).
56. Okeke, F., Sobolev, M., **Dell, N.**, and Estrin, D. 2018. Good Vibrations: Can a Digital Nudge Reduce Digital Overload? International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI).
57. Law, M., Naaman, M., and **Dell, N.** 2018. ShareBox: Designing A Physical System to Support Resource Exchange in Local Communities. Designing Interactive Systems (DIS).
58. Chatterjee, R., Doerfler, P., Orgad, H., Havron, S., Palmer, J., Freed, D., Levy, K., **Dell, N.**, McCoy, D., and Ristenpart, T. 2018. The Spyware Used in Intimate Partner Violence. IEEE Symposium on Security and Privacy (Oakland).
59. Freed, D., Palmer, J., Minchala, D., Levy, K., Ristenpart, T and **Dell, N.** 2018. "A Stalker's Paradise": How Intimate Partner Abusers Exploit Technology. ACM Conference on Human Factors in Computing Systems (CHI).  
[Best Paper Award.](#)
60. Vashistha, A., Okeke, F., Anderson, R., and **Dell, N.** 2018. "You Can Always Do Better!" The Impact of Social Proof on Participant Response Bias. ACM Conference on Human Factors in Computing Systems (CHI).
61. Sultana, S., Guimbretière, F., Sengers, P., and **Dell, N.** 2018. Design Within a Patriarchal Society: Opportunities and Challenges in Designing for Rural Women in Bangladesh. ACM Conference on Human Factors in Computing Systems (CHI).  
[Best Paper Award.](#)
62. Ahmed S. I., Haque, M. R., Chen, J., and **Dell, N.** 2017. Digital Privacy Challenges with Shared Mobile Phone Use in Bangladesh. Proceedings of the ACM on Human-Computer Interaction: CSCW, Article 17.
63. Freed, D., Palmer, J., Minchala, D., Levy, K., Ristenpart, T and **Dell, N.** Digital Technologies and Intimate Partner Violence: A Qualitative Analysis with Multiple Stakeholders. Proceedings of the ACM on Human-Computer Interaction: CSCW, Article 46.  
[Paper Recognition for Contribution to Diversity and Inclusion.](#)
64. Ahmed, S. I., Guha, S., Rashidujjaman, R., Hossain, F., **Dell, N.** 2017. Privacy Vulnerabilities in the Practices of Repairing Broken Digital Artifacts in Bangladesh. Journal on Information Technologies & International Development (ITID). Vol. 13, 186-199.  
["Best of ICTD" Paper.](#)
65. Ahmed, S. I., Haque, M. R., Guha, S., Rashidujjaman M. R., **Dell, N.** 2017. Privacy and Surveillance in the Global South: A Study of Biometric Mobile Registration in Bangladesh. ACM SIGCHI Conference on Human Factors in Computing Systems (CHI).
66. DeRenzi, B., **Dell, N.**, Wacksman, J., Lee, S., Lesh, N. 2017. Supporting Community Health Workers in India through Voice- and Web-Based Feedback. ACM SIGCHI Conference on Human Factors in Computing Systems (CHI).  
[Best Paper Honorable Mention.](#)

67. Yang, L., Hsieh, C., Yang, H., Pollak, JP., **Dell, N.**, Belongie, S., Cole, C., Estrin, D. 2017. Yum-me: A Personalized Nutrient-based Meal Recommender System. *ACM Transactions on Information Systems*, 9(4), Article 39.
68. Ahmed, S. I., Guha, S., Rashidujjaman, R., Hossain, F., **Dell, N.** 2016. Privacy in Repair: An Analysis of the Privacy Challenges Surrounding Broken Digital Artifacts in Bangladesh. *Int'l Conference on Information and Communication Technologies and Development (ICTD)*.
69. DeRenzi, B., Watchman, J., **Dell, N.**, Lee, S., Lesh, N., Borriello, G., and Ellner, A. 2016. Closing the Feedback Loop: Experiences from a 12-month Deployment of a Self-Tracking Tool for ASHAs. *Int'l Conference on Information and Communication Technologies and Development (ICTD)*.
70. **Dell, N.**, and Kumar, N. The Ins and Outs of HCI4D. 2016. *ACM Conference on Human Factors in Computing Systems (CHI)*.  
[Best Paper Honorable Mention.](#)
71. Kumar, N., Brunette, W., **Dell, N.**, Perrier, T., Kolko, B., Borriello, G., Anderson, R. 2015. Understanding Sociotechnical Implications of Mobile Health Deployments in India, Kenya, and Zimbabwe. *Journal on Information Technologies & International Development (ITID)*, 11(4), 17-32.
72. Vashistha, A., Cutrell, E., **Dell, N.**, and Anderson, R. 2015. Social Media Platforms for Low-Income Blind People in India. *ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*.  
[Best Student Paper Award.](#)
73. Perrier, T., **Dell, N.**, DeRenzi, B., Anderson, R., Kinuthia, J., Unger, J. and John-Stewart, G. 2015. Engaging Pregnant Women in Kenya with a Hybrid Computer-Human SMS Communication System. 2015. *ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*.
74. **Dell, N.**, Perrier, T., Kumar, N., Lee, M., Powers, R., Borriello, G. 2015. Paper-Digital Workflows in Global Development Organizations. *Proceedings of the 2015 ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW)*.
75. **Dell, N.**, D'Silva, K., and Borriello, G. Mobile Touch-Free Interaction for Global Health. 2015. *ACM Workshop on Mobile Computing Systems and Applications (HotMobile)*.
76. **Dell, N.**, Francis, I., Sheppard, H. and Borriello, G. 2014. Field Evaluation of a Camera-Based Mobile Health System in Low-Resource Settings. *International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI)*.
77. **Dell, N.** A Mobile Point-of-Care Diagnostic System for Low-Resource Settings. 2014. In *CHI '14 Extended Abstracts on Human Factors in Computing Systems (CHI EA)*.  
[Winner ACM SIGCHI Graduate Student Research Competition.](#)
78. **Dell, N.**, Crawford, J., Breit, N., Chaluco, T., Coelho, A., McCord, J. and Borriello, G., Integrating ODK Scan into the Health Worker Supply Chain in Mozambique. 2013. *6th Int'l Conference on Information and Communication Technologies and Development (ICTD)*.
79. **Dell, N.**, Breit, N., Wobbrock, J. O. and Borriello, G., Improving Form-Based Data Entry in Low Resource Settings with Image Snippets. 2013. *39th Graphics Interface Conference (GI)*.
80. Brunette, W., Sundt, M., **Dell, N.**, Chaudhri, R., Breit, N. and Borriello, G., Open Data Kit 2.0: Expanding and Refining Information Services for Developing Regions. 2013. *ACM Workshop on Mobile Computing Systems and Applications (HotMobile)*.
81. **Dell, N.** and Borriello, G., Mobile Tools for Point-of-Care Diagnostics in the Developing World. 2013. *3rd Annual ACM Conference on Computing for Development (DEV)*.



82. **Dell, N.**, Vaidyanathan, V., Medhi, I., Cutrell, E., and Thies, W., "Yours is Better!" Participant Response Bias in HCI. 2012. ACM Conference on Human Factors in Computing Systems (CHI).
83. **Dell, N.**, Breit, N., Chaluco, T., Crawford, J. and Borriello, G., Digitizing Paper-Based Vaccine Data via Mobile Imaging Technologies. 2012. 2nd Annual ACM Conference on Computing for Development (DEV).
84. **Dell, N.**, Venkatachalam, S., Stevens, D., Yager, P. and Borriello, G. Towards a Point-of-Care Diagnostic System: Automated Analysis of Immunoassay Test Data on a Cell Phone. 2011. 5th ACM Workshop on Networked Systems for Developing Regions (NSDR).

## Funding

2023-2024 JP Morgan Faculty Research Award (with Ristenpart). \$70,000  
 2023-2024 Google Cyber NYC Award (with Huang and Ristenpart). \$80,000  
 2023-2024 Google Cyber NYC Award (with Ristenpart). \$80,000  
 2022-2025 Doris Duke Charitable Foundation Development Award (with Sterling). \$495,000  
 2022-2024 Weill Cornell Clinical and Translational Science Center Pilot Award. \$50,000  
 2022-2023 Google Award for Inclusion Research (with Ristenpart). \$60,000  
 2021-2023 JP Morgan Faculty Research Award (with Ristenpart). \$120,000  
 2020-2023 NSF Future of Work Award (with Estrin, Sterling, Avgar). \$1,499,881  
 2020-2021 Google AI for Social Good Grant (with Ristenpart). \$122,574  
 2020 Internet Defense Prize (third place) (with Ristenpart, McCoy, Greenstadt). \$40,000  
 2020-2021 Google Faculty Research Award (with Ristenpart, McCoy). \$73,706  
 2019-2023 NSF Secure & Trustworthy Cyberspace Award (with Ristenpart, McCoy, Levy). \$1,200,000  
 2019-2021 Robert Wood Johnson Foundation Pioneering Grant (with Sterling). \$358,636  
 2019-2020 Facebook Award for Content Policy Research (with Ristenpart and McCoy). \$85,968  
 2018-2023 NSF CAREER Award. \$550,000  
 2018-2019 Facebook Secure the Internet Award. \$80,045  
 2018-2019 Google Faculty Research Award (with Ristenpart and McCoy). \$80,000  
 2018-2019 Facebook Research Award. \$25,000  
 2018 Cornell Institute for the Social Sciences Grant (with Sengers and Vaghela). \$6,000  
 2017-2019 NSF EAGER Award (with Naaman). \$314,333  
 2013-2014 Facebook Graduate Fellowship. \$37,500  
 2013 Palantir Scholarship for Women in Technology. \$7,000  
 2012 Google Anita Borg Scholarship. \$10,000

## Invited Presentations

2023 Societal Impact Award Panel, ACM CHI, Hamburg, Germany  
 2022 Software and Societal Systems Department, Distinguished Speaker, CMU, Pittsburgh, PA  
 2022 Cornell Tech 10th Anniversary Celebration, New York, NY  
 2022 DUB Group, University of Washington, Seattle, WA  
 2021 Center for Applied Data Ethics, University of San Francisco, CA  
 2021 Cornell Communication Department Colloquium, Ithaca, NY  
 2019 Keynote, New York Judicial Domestic Violence Symposium, Brooklyn, NY  
 2019 Microsoft Research New England, MA  
 2019 National Network to End Domestic Violence Technology Summit, CA  
 2019 Consortium for the Science of Socio-Technical Systems, NJ  
 2019 New York Statewide Civil Legal Aid Technology Conference, NY

**2019** Center for Information Technology Policy, Princeton University, NJ  
**2018** Department of Computer Science, University of Michigan, Ann Arbor, MI  
**2018** Cornell Tri-Campus Symposium on Health Equity, New York, NY  
**2018** Department of Computer Science, Stanford University, Palo Alto, CA  
**2018** Technion, Haifa, Israel  
**2017** Keynote Speaker, Big Red STEM Day, New York, NY  
**2017** MIT EECS, Cambridge, MA  
**2017** Information School, University of Washington, Seattle, WA  
**2017** Department of Computer Science, Northwestern University, Evanston, IL  
**2016** New York City Media Lab Summit, New York, NY  
**2015** Keynote Speaker, Connected Experiences Workshop, New York, NY  
**2015** 11 invited academic job talks for tenure-track faculty positions  
**2014** Google and Women Techmakers Panel for International Women's Day, Kirkland, WA  
**2014** Keynote Speaker, Pacific Northwest Celebration of Women in Computing Conference  
**2013** Technologies for Brighter Futures Workshop, Cayetano Heredia University, Lima, Peru  
**2012** Keynote Speaker, National Center for Women and Information Technology, Award Ceremony

## Teaching

**CS 5682/INFO 6410 HCI and Design, Cornell Tech**  
 Fall 2022, Fall 2021, Fall 2020, Fall 2019, Fall 2018, Spring 2018, Spring 2017, Spring 2016  
**INFO 6940, Technology and Social Justice, Cornell Tech**  
 Spring 2024, Spring 2022, Spring 2021, Spring 2020  
**INFO 6600 Technology for Underserved Communities, Cornell University**  
 Spring 2019, Fall 2016  
**CSE 373 Algorithms and Data Structures, University of Washington**  
 Spring 2014

## Advising

**Ph.D. Advisees**  
 Arkaprabha Bhattacharya, Computer Science (2024 - )  
 Alaa Duffalla, Computer Science (2022 - )  
 Ian Solano-Kamaiko, Information Science (2022 - )  
 Vince Bartle, Information Science (2022 - )  
 Joy Ming, Information Science (2020 - )  
 Emily Tseng, Information Science (2019 - )  
 Liam Albright, Information Science (2021 - 2024)  
 Rama Varanasi, Information Science (2017 - 2023), Faculty Fellow, NYU Tandon School of Engineering  
 Chinasa T. Okolo, Computer Science (2019 - 2023), Postdoc, MIT CSAIL and the Brookings Institute  
 Anthony Poon, Information Science (2016 - 2022), Senior Technical Advisor, UW I-TECH  
 Andrea Cuadra, Information Science (2019 - 2022), Postdoc, Stanford Computer Science  
 Sam Havron, Computer Science (2017 - 2020), Security Engineer, Squarespace  
 Diana Freed, Information Science (2016 - 2020)  
 Fabian Okeke, Information Science (2016 - 2019), Research Scientist, Facebook  
 Sharifa Sultana, Information Science (2016 - 2018)

**Postdoc Advisees**

Lana Ramjit, Cornell Tech (2022 - )  
 Rosanna Bellini, Cornell Tech (2021 - )

**Ph.D. Committee Membership**

Dhruv Agarwal, Cornell Information Science (2023 - )  
 Mahika Phutane, Cornell Computer Science (2023 - )  
 Madiha Zahrah Choksi, Cornell Information Science (2022 - )  
 Marina Sanusi Bohuk, Cornell Computer Science (2022 - )  
 Julia Len, Cornell Computer Science (2019 - )  
 Gloire Rubambiza, Cornell Computer Science (2018 - )  
 Alexa VanHattum, Cornell Computer Science (2019 - 2023), Asst. Prof. Wellesley College  
 Allison McDonald, U. Michigan Computer Science (2020 - 2022), Asst. Prof. Boston University  
 Judith Uchidiuno, CMU Human-Computer Interaction Institute (2018 - 2020), Asst. Prof. Georgia Tech  
 Maggie Jack, Cornell Information Science (2018 - 2020), Postdoc, UC Irvine/Syracuse University  
 Rahul Chatterjee, Cornell Computer Science (2016 - 2019), Asst. Prof., University of Wisconsin  
 Longqi Yang, Cornell Computer Science (2016 - 2019), Researcher, Microsoft Research  
 Ishtiaque Ahmed, Cornell Information Science (2015 - 2017), Asst. Prof., University of Toronto

**Academic Service****Steering Committee Chair**

**2022-present** ACM Computing and Sustainable Societies (COMPASS)

**Steering Committee**

**2017-present** ACM Computing and Sustainable Societies (COMPASS)

**Technical Program Chair**

**2022** ACM Computing and Sustainable Societies (COMPASS)  
**2020** ACM Information and Communication Technologies and Development (ICTD)  
**2016** ACM Computing for Development (DEV)

**Sub-Committee Chair / Area Chair**

**2021** ACM Human Factors in Computing Systems (CHI)  
**2018** ACM Human Factors in Computing Systems (CHI)  
**2018** ACM Computing and Sustainable Societies (COMPASS)

**Program Committee / Associate Editor**

**2022-present** ACM Journal on Computing and Sustainable Societies (JCSS)  
**2016-2022** ACM Human Factors in Computing Systems (CHI)  
**2017-2022** ACM Computer Supported Cooperative Work and Social Computing (CSCW)  
**2018-2022** ACM Computing and Sustainable Societies (COMPASS)  
**2016-2022** ACM Information and Communication Technologies and Development (ICTD)  
**2016** ACM Mobile Systems and Applications (MobiSys)  
**2013-2016** ACM Symposium on Computing for Development (DEV)

**Reviewer**

ACM Human Factors in Computing Systems (CHI)  
 ACM Computer Supported Cooperative Work and Social Computing (CSCW)  
 ACM Computing and Sustainable Societies (COMPASS)  
 ACM Information and Communication Technologies and Development (ICTD)  
 ACM User Interface Software and Technology (UIST)

ACM Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)  
ACM Human-Computer Interaction with Mobile Devices (MobileHCI)  
ACM Computing for Development (DEV)  
ACM Journal on Computing and Sustainable Societies (JCSS)  
Journal of Information Technology and International Development (ITID)  
Journal of Information Technology for Development (ITD)

## University and Community Service

**2024 - present** SIGCHI Societal Impact Awards Committee  
**2020 - present** Cornell representative for the Human-Computer Interaction Consortium (HCIC)  
**2024** PhD Admissions Chair, Cornell Information Science Department  
**2019 - 2022** PhD Committee Chair, Cornell Tech  
**2019 - 2022** Graduate Committee, Cornell Information Science Department  
**2019 - 2022** Tech campus PhD Faculty Liaison, Cornell Information Science Department  
**2016 - 2022** PhD Admissions Committee, Cornell Information Science Department  
**2021-2022** Diversity, Equity, and Inclusion Strategic Planning Committee, Cornell Tech  
**2021** Cornell Summer School on Designing Technology for Social Impact (Co-Chair), IS Department  
**2020-2021** Associate Dean Search Committee (Chair), Cornell Tech  
**2019** Faculty Mentor, Consortium for the Science of Socio-Technical Systems  
**2018** Symposium Organizer, HCI Across Borders at CHI 2018  
**2017** Robert Wood Johnson Foundation Task Force on Global Advantage  
**2016** Organizer, Development Consortium: HCI Across Borders at CHI  
**2011 - 2015** Graduate Student Coordinator, UW CSE Department  
**2011 - 2015** Change Seminar Organizer, UW CSE Department  
**2013** Open Data Kit at Code for Humanity, Grace Hopper Celebration of Women in Computing  
**2012 - 2015** Young Researchers in ICTD Coordinator  
**2011 - 2015** Computer Science Outreach Volunteer, UW CSE Department  
**2010 - 2011** Graduate Social Chair, UW CSE Department