Nicola Dell

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Research Interests

I investigate the impact of digital technologies on underserved communities and build systems that make our computer-mediated world safer and more equitable for everyone. My work is situated in the fields of human-computer interaction (HCI) and computer security and privacy.

Appointments

2022 – present. Associate Professor
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 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
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

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

Selected Honors and Awards

2024 MacArthur Fellow, John D. and Catherine T. MacArthur Foundation
2024 Google Academic Research Award
2024 Best Paper Honorable Mention, ACM CHI
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 Research Excellence Award, Ann S. Bowers College of Computing and Information Science
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[1]

1. Sophie Stephenson, Lana Ramjit, Thomas Ristenpart, and **Nicola Dell**. 2025. Digital Technologies and Human Trafficking: Combating Coercive Control and Navigating Digital Autonomy. ACM Conference on Human Factors in Computing Systems (CHI).

2. Joy Ming, Hawi H. Tolera, Jiamin Tu, Ella Yitzhaki, Chit Sum Eunice Ngai, Madeline Sterling, Ariel C. Avgar, Aditya Vashistha, and **Nicola Dell**. 2025. Exploring Data-Driven Advocacy in Home

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[1]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.

Health Care Work. ACM Conference on Human Factors in Computing Systems (CHI).

3. Ian René Solano-Kamaiko, Melissa Tan, Joy Ming, Ariel C. Avgar, Aditya Vashistha, Madeline Sterling, and **Nicola Dell**. 2025. "Who is running it?" Towards Equitable AI Deployment in Home Care Work. ACM Conference on Human Factors in Computing Systems (CHI).

4. Alaa Daffalla, Arkaprabha Bhattacharya, Jacob Wilder, Rahul Chatterjee, **Nicola Dell**, Rosanna Bellini, Thomas Ristenpart. 2025. Passkeys in Interpersonal Threat Models: Abusability Analysis of Early Deployments. USENIX Security Symposium.

5. Emily Tseng, Thomas Ristenpart, and **Nicola Dell**. 2025. Mitigating Trauma in Qualitative Research Infrastructure: Roles for Machine Assistance and Trauma-Informed Design. Proceedings of the ACM on Human-Computer Interaction, Vol. 9, No. 2 (CSCW), Article 137.

6. Vince Bartle, Ashley Shearer, Alexandra Wroe, **Nicola Dell**, and Nikhil Garg. 2025. Faster Information for Effective Long-Term Discharge: A Field Study in Adult Foster Care. Proceedings of the ACM on Human-Computer Interaction, Vol. 9, No. 2 (CSCW), Article 85.

7. Melissa Yanez Hernandez, Elizabeth Kuo, Yefrenia Taveras, Ann Lee, Aida Ramos, Joanna Ringel, Susan Andreae, Emma Tsui, Monika M. Safford, Ariel C. Avgar, Megan J. Shen, **Nicola Dell**, Daniel Shalev, Catherine Riffin, Faith Wiggins, Elissa Kozlov, Nathalie Moise, Madeline R. Sterling. 2024. Mental Health and Well-Being Among Home Health Aides JAMA Network Open. 2024;7(6):e2415234. doi:10.1001/jamanetworkopen.2024.15234

8. Liam Albright, Woojin Ko, Meyhaa Buvanesh, Harald Haraldsson, Fernanda Polubriaginof, Gilad J. Kuperman, Michelle Levy, Madeline R. Sterling, **Nicola Dell**, and Deborah Estrin. 2024. Opportunities and Challenges for Augmented Reality in Family Caregiving: Qualitative Video Elicitation Study. JMIR Form Res 2024;8:e56916. DOI: 10.2196/56916.

9. Cisco G. Espinosa, Sasha Vergez, Margaret V. McDonald, Monika Safford, Jacklyn Cho, Jonathan N. Tobin, Omar Mourad, Rosa Marcus, Joanna Bryan, Samprit Banerjee, **Nicola Dell**, Penny Feldman, Madeline R. Sterling. 2024. Leveraging home health aides to improve outcomes in heart failure: A pilot study protocol. Contemporary Clinical Trials: 107570.

10. 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).

11. 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).

12. 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).
Best Paper Honorable Mention

13. 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.

14. 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.

15. 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.

16. 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).

17. Bensson-Ravunniarath 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.

18. 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

19. 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).

20. 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.

21. 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.

22. 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.

23. 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.

24. 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

25. 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.

26. 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).

27. 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).

28. 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).

29. 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).

30. 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

31. 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).

32. 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).

33. 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.

34. 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

35. 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.

36. 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).

37. 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.

38. 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).

39. 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).

40. 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).

41. 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).

42. 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

43. 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)

44. 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.

45. 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.

46. 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.

47. 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).

48. 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).

49. 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.

50. 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).

51. 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).

52. 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.

53. Margaret Jack, Pang Sovannaroth, & **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

54. 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

55. 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.

56. 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.

57. 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

58. 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).

59. 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

60. 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).

61. 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).

62. 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).

63. 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).

64. 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).

65. 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).

66. Law, M., Naaman, M., and **Dell, N**. 2018. ShareBox: Designing A Physical System to Support Resource Exchange in Local Communities. Designing Interactive Systems (DIS).

67. 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).

68. 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

69. 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).

70. 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

71. 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.

72. 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.
Diversity and Inclusion Award

73. 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

74. 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).

75. 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

76. 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.

77. 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).

78. 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).

79. **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

80. 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.

81. 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

82. 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).

83. **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).

84. **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).

85. **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).

86. **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

87. **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).

88. **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).

89. 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).

90. **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).

91. **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).

92. **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).

93. **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

2024-2025 Google Academic Research Award (with Ristenpart). $100,000
2024-2025 Google Cyber NYC Award (with Ristenpart). $80,000
2024-2025 Google Cyber NYC Award (with Avgar, Sterling, Estrin). $80,000
2024-2025 Innovation Resource Center for Human Resources Grant (with Avgar, Sterling). $36,250
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

2024 Cornell Tri-Institutional Symposium on Advancing Health Equity in Cancer Control, NY
2023 Center for Applied Research on Work (CAROW), Cornell ILR, Ithaca, NY
2023 Societal Impact Award Talk, 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
Spring 2016, 2017, 2018; Fall 2018, 2019, 2020, 2021, 2022, 2024

INFO 6940, Technology and Social Justice, Cornell Tech
Spring 2020, 2021, 2022, 2024, 2025

INFO 6600 Technology for Underserved Communities, Cornell University
Fall 2016, Spring 2019

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 - 2024), Asst. Prof. University of Washington HCDE
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), Asst. Prof. Olin College CS
Diana Freed, Information Science (2016 - 2020)
Sam Havron, Computer Science (2017 - 2020), Security Engineer, Squarespace
Fabian Okeke, Information Science (2016 - 2019), Research Scientist, Facebook
Sharifa Sultana, Information Science (2016 - 2018)

Postdoc Advisees
Lana Ramjit (2022 - 2024), National Resource Center for Cybercrimes Against Individuals, AEquitas
Rosanna Bellini (2021 - 2024), Asst. Prof. NYU Tandon CSE

Ph.D. Committee Membership
Haesoo Kim, Cornell Information Science (2024 -)

Alexandra Gonzalez, Cornell Information Science (2024 -)
Thalia Viranda, Cornell Information Science (2024 -)
Yadi Wang, Cornell Information Science (2024 -)
Amna Batool, U. Michigan School of Information (2024 -)
Dhruv Agarwal, Cornell Information Science (2023 -)
Mahika Phutane, Cornell Computer Science (2023 -)
Madiha Zahrah Choksi, Cornell Information Science (2022 -)
Gloire Rubambiza, Cornell Computer Science (2018 - 2024), Head of Engineering, Satlyt
Julia Len, Cornell Computer Science (2019 - 2024), Asst. Prof. UNC Chapel Hill CS
Marina Sanusi Bohuk, Cornell Computer Science (2022 - 2024), Co-founder, Meta CTF
Alexa VanHattum, Cornell Computer Science (2019 - 2023), Asst. Prof. Wellesley College CS
Allison McDonald, U. Michigan Computer Science (2020 - 2022), Asst. Prof. Boston University CDS
Judith Uchidiuno, CMU HCII (2018 - 2020), Asst. Prof. Georgia Tech Interactive Computing
Maggie Jack, Cornell Information Science (2018 - 2020), Postdoc, UC Irvine/Syracuse University
Rahul Chatterjee, Cornell Computer Science (2016 - 2019), Asst. Prof., University of Wisconsin CS
Longqi Yang, Cornell Computer Science (2016 - 2019), Researcher, Microsoft Research
Ishtiaque Ahmed, Cornell Information Science (2015 - 2017), Asst. Prof., University of Toronto CS

Academic Service

Award Selection Committees
2024 - present ACM Eugene Lawler Award Selection Committee
2024 - present SIGCHI Societal Impact Awards Selection Committee

Steering Committee Chair
2022-2024 ACM Computing and Sustainable Societies (COMPASS)

Steering Committee
2017-2025 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 Chair / Associate Editor
ACM Journal on Computing and Sustainable Societies (JCSS)
ACM Computer Supported Cooperative Work and Social Computing (CSCW)
ACM Human Factors in Computing Systems (CHI)
ACM Information and Communication Technologies and Development (ICTD)
ACM Computing and Sustainable Societies (COMPASS)
ACM Symposium on Computing for Development (DEV)

Reviewer
ACM Human Factors in Computing Systems (CHI)
ACM Computer Supported CooperativeWork 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)

Department and University Service

2020 - present Cornell representative for the Human-Computer Interaction Consortium (HCIC)
2024 - 2025 Program Director, MS in Information Systems, Health Tech
2024 - 2025 Bowers CIS Research Awards Selection Committee
2023 - 2024 PhD Admissions Chair, Information Science Department
2019 - 2022 PhD Committee Chair, Cornell Tech
2019 - 2022 Graduate Committee, Information Science Department
2019 - 2022 Tech campus PhD Faculty Liaison, Information Science Department
2016 - 2022 PhD Admissions Committee, 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