



Joy C. Ming

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Research Interests

Keywords: labor tech, critical and responsible AI, community-engaged design, data solidarity, care work

Education

Ph.D. in Information Science Aug 2020 - May 2025
Cornell University Ithaca, NY
Committee Co-Chairs: Aditya Vashistha and Nicola Dell
Minor Members: Karen Levy (Science and Technology Studies), Ariel Avgar (Labor Relations)

A.B. in Computer Science, Global Health and Health Policy Aug 2011 - May 2015
Harvard University Cambridge, MA
Honors: Graduated cum laude with high honors in field
Thesis: #Autism Versus 299.0: Topic Model Exploration of Multimodal Autism Data

Awards and Fellowships

National Science Foundation Graduate Research Fellowship Aug 2021 - Aug 2024
Fulbright Student Research Fellowship Aug 2015 - May 2016

Professional and Research Experience

Assistant Professor Jan 2026 - present
Department of AI and Society, University at Buffalo

Postdoctoral Associate Sept 2025 - Jan 2026
School of Industrial and Labor Relations, Cornell University Ithaca, NY
Group: Center for Applied Research on Work | *Advisor:* Ariel Avgar

Public Interest Technology (PiTech) Impact Fellow May 2023 - Aug 2023
New York City Civic Engagement Commission New York, NY
Advisor: Oscar Romero


User Researcher, Software Engineer July 2016 - Aug 2020
Google San Francisco, CA
Groups: Area 120, Next Billion Users, Google.org | *Mentors:* Asif Baki, Jackie Bernhelm, Jen Carter

Fulbright Student Research Scholar Aug 2015 - May 2016
US-India Educational Foundation New Delhi, India
Affiliations: Dimagi Software Innovations, Microsoft Research India | *Mentors:* Neal Lesh, Ed Cutrell

Visiting Researcher May 2014 - Sept 2014
NYU Abu Dhabi Abu Dhabi, UAE
Group: Design Technology Lab | *Advisors:* Jay Chen, Azza Abouzied

Publications

Refereed Conference¹ and Journal Paper Publications

1. **Joy Ming**, Ian Rene Solano-Kamaiko, and Emily Tseng. "Towards Participatory AI in Frontline Care Work: An Actionable Framework." Under Review, **2026**.
2. Hawi Tolera, Dana Calacci, and **Joy Ming**. "[Analyzing Movement and Work Patterns of Fragmented and Dispersed Home Care Workers using Multimodal Data](#)" Proceedings of the ACM SIGCAS/SIGCHI Conference on Computing and Sustainable Societies (COMPASS '25), **2025**.
3. **Joy Ming**, Hawi Tolera, Jiamin Tu, Ella Yitzhaki, Chit Sum Eunice Ngai, Madeline Sterling, Ariel Avgar, Aditya Vashistha, and Nicola Dell. "[Exploring Data-Driven Advocacy in Home Health Care Work](#)." ACM CHI Conference on Human Factors in Computing Systems (CHI '25), **2025**.
 **Best Paper Award.**
4. Ian Rene Solano-Kamaiko, Melissa Tan, **Joy Ming**, Ariel Avgar, Aditya Vashistha, Madeline Sterling, and Nicola Dell. "['Who is running it?' Towards Equitable AI Deployment in Home Care Work](#)." Accepted to ACM CHI Conference on Human Factors in Computing Systems (CHI '25), **2025**.
5. Lauri Goldkind, **Joy Ming**, and Alex Fink. "[AI in the Nonprofit Human Services: Distinguishing Between Hype, Harm, and Hope](#)." *Human Service Organizations: Management, Leadership & Governance*, **2024**.
6. **Joy Ming** and SueAnn Shiah. "[Liturgy for Technology: A Reflection on Designing for Conquest or Liberation](#)." In *alt.chi, Extended Abstracts of the CHI Conference on Human Factors in Computing Systems (alt.chi '24)*, May **2024**.
7. **Joy Ming**, Dana Gong, Chit Sum Eunice Ngai, Madeline Sterling, Aditya Vashistha, and Nicola Dell. "[Wage Theft and Technology in the Home Care Context](#)." In *Proceedings of the ACM Human-Computer Interaction (CSCW '24)*, 8, CSCW1, Article 151, April **2024**.
8. **Joy Ming**, Elizabeth 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 '23)*, CSCW1, April **2023**.
9. **Joy Ming**, Srujana Kamath, Elizabeth Kuo, Madeline Sterling, Nicola Dell, and Aditya Vashistha. "[Invisible Work in Two Frontline Health Contexts](#)." In *Proceedings of the ACM SIGCAS/SIGCHI Conference on Computing and Sustainable Societies (COMPASS '22)*. ACM, **2022**.
10. John Kallas, Madeline R. Sterling, Olay Ajayi, Ethan Mulroy, Elizabeth Kuo, **Joy Ming**, Nicola Dell, & Ariel C. Avgar. "[Making a bad situation worse: Examining the challenges facing rural home care workers](#)." *Journal of Applied Gerontology*. **2022**.
11. **Joy Ming**, Sharon Heung, Shiri Azenkot, and Aditya Vashistha. "[Accept or Address? Researchers' Perspectives on Response Bias in Accessibility Research](#)." In *Proceedings of the 23rd International*

¹Conference proceedings in human-computer interaction include full papers that undergo a rigorous peer-review process. First authors typically lead the projects and make the most substantial contributions.

SIGACCESS Conference on Computers and Accessibility (ASSETS '21). ACM, **2021**.

 **Best Paper Nominee.**

12. Jay Chen, Azza Abouzied, David Hutchful, **Joy Ming**, and Ishita Ghosh. "[printr: Exploring the Potential of Paper-based Tools in Low-resource Settings.](#)" In *Proceedings of the Eighth International Conference on Information and Communication Technologies and Development (ICTD '16)*, **2016**.
13. Ishita Ghosh, Jay Chen, **Joy Ming**, and Azza Abouzied. "[The persistence of paper: a case study in microfinance from Ghana.](#)" In *Proceedings of the Seventh International Conference on Information and Communication Technologies and Development (ICTD '15)*, ACM, **2015**.

Conference Abstracts, Posters, and Workshop Submissions

14. **Joy Ming**. "[Surveillance or Solidarity? Examining Data Violence and Data Solidarity in Home Healthcare Work.](#)" Conference presentation at the *2025 meeting of the Society for Social Studies of Science (4S)*, **2025**, September 3–6.
15. **Joy Ming**. "[Data Advocacy for Home Care Workers: "Good" for Whom? When? How?](#)" Conference presentation at the *Joint Meeting of the European Association for the Study of Science and Technology and the Society for Social Studies of Science (EASST-4S '24)*, **2024**, July 16–19.
16. **Joy Ming**. "Data Advocacy for Home Care Workers: Data as Power or as a Burden." Conference presentation at the *Joint Meeting of the Society for Economic Anthropology and the Society for the Anthropology of Work (SEA/SAW '24)*, **2024**, April 18–20.
17. **Joy Ming**. "[Data Advocacy for the Visibility of Home Care Workers.](#)" Conference presentation at the *Annual Meeting of the Society for Social Studies of Science (4S)*, **2023**, November 8–11.
18. **Joy Ming**. "[Data Advocacy for Visibility of Home Care Workers.](#)" In *Computer Supported Cooperative Work and Social Computing (CSCW '23 Companion)*, **2023**, October 14–18.
19. **Joy Ming**. "[Community for Community-Based Caregivers.](#)" Conference presentation at *Humanities, Arts, Science and Technology Alliance and Collaboratory (HASTAC)*, **2023**, June.
20. **Joy Ming**. "Mobilizing STS for Design with Frontline Health Workers." Conference presentation at *Graduate Research in Science and Technology Studies (GRiSTS)*, **2022**, October.
21. **Joy Ming**. "Designing for Worker In/Visibility in Frontline Health Contexts." Presentation for the *Labor Tech Research Network Speaker Series*, **2022**.
22. **Joy Ming**. "Designing for In/Visibility with Home Health Aides." Conference presentation at the *Annual Meeting of the Labor and Employment Relations Association (LERA)*, **2022**, June.
23. **Joy Ming**. "[Beyond the Partograph: Lessons from the Field on Designing Information Communication Technologies for Childbirth in Remote Healthcare Centers in India.](#)" In *Proceedings of the Eighth International Conference on Information and Communication Technologies and Development*, p. 44. ACM, **2016**.
24. **Joy Ming**, Ishita Ghosh, Jay Chen, and Azza Abouzied. "[Printing Paper Technology for Development.](#)" In *Proceedings of the Fifth ACM Symposium on Computing for Development*, pp. 117–118. ACM, **2014**.

Selected Public-Facing Writing

25. **Joy Ming.** "[The Ongoing Fight against Electronic Visit Verification.](#)" *Logic(s) Magazine, Issue 22 Out of Place*, pages 32–36, December **2024**.
26. Ella Yitzhaki and **Joy Ming.** "[Recommendations for Home Healthcare Worker Policies.](#)" Memo, **2024**.
27. **Joy Ming.** "[Invisible Work and Technology for Home Health Aides.](#)" *ACM CSCW Blog*, Oct **2023**.
28. **Joy Ming.** "[Making Sense of Civic Voice Using Computer-Driven Analysis with the NYC Civic Engagement Commission.](#)" *Public Interest Technology Initiative at Cornell Tech*, October **2023**.
29. Dana Gong, Eunice Ngai, and **Joy Ming.** "[Wage Theft & Technology In the Home Care Context: Summary of Insights from Fall 2022 Research.](#)" Report, **2023**.

Theses

30. **Joy Ming.** "[From Surveillance to Solidarity: Reimagining Data-Driven Technologies in Home Health Care Work.](#)" Doctoral dissertation, Cornell University, **2025**.
31. **Joy Ming.** "[#Autism Versus 299.0: Topic Model Exploration of Multimodal Autism Data.](#)" Undergraduate dissertation, Harvard University, **2015**.

Teaching Experience

Independent Study Instructor Ashoka University Course: HCI and Underserved Communities (syllabus)	Fall '23 Remote
Teaching Assistant Cornell University Courses: Computing and Global Development (syllabus), Technology for Underserved Communities	Fall '20, '24, Spring '21 Ithaca, NY
Teaching Fellow Harvard University Courses: Data Science (syllabus), Introduction to Computer Science (syllabus)	Fall '12, Fall '14 Cambridge, MA
Teaching Volunteer Digital Literacy Project Taught basic computer science concepts to middle school students in low-income neighborhoods.	Jan '14 – May '15 Boston, MA

Mentoring Experience

Undergraduate Researcher Mentor Cornell University Mentees: Hawi Tolera, Jiamin Tu, Ella Yitzhaki, Brianna Liu, Zayana Khan, Sophie Alber, Chit Sum Eunice Ngai, Dana Gong, Katie Guo, Elizabeth Kuo, Srujana Kamath, Madeline Parga, Rishitha Tambireddy	Aug 2020 – present
Intern Mentor Google Mentored a total of 8 software engineering interns (sophomores–PhD students)	May 2017 – Aug 2020 San Francisco, CA
Mentor Harvard Women in Computer Science Mentored women in computer science, guiding them through courses, internships, opportunities.	Aug 2013 – May 2015 Cambridge, MA

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Presented on social impact technology at WECODE 2019, WECODE 2015, [Grace Hopper 2014](#).

Co-Founder

Harvard College Developers for Development

Introduced computer science students to social impact technology through a 300–500 person annual hackathon (ID Hack) with MIT and Tufts students and a network of 100+ global development orgs.

Aug 2012 – May 2015

Cambridge, MA

Leadership and Service

Conference Workshop and Panel Organizer

[Reclaiming the Future of Work](#)

4S 2025

[Technology and Precarity in Work](#)

4S 2023

[Labor Visibility, Technology: Academic Insights and On-Ground Realities](#)

CSCW 2024

Writing for Interdisciplinary Computing Audiences

COMPASS 2025

[Empowering Future Scholars: Coaching Workshop for Junior Researchers](#)

COMPASS 2023

Peer Reviewing and Reviewing Committees

Associate Chair (AC) in Critical Computing, Sustainability & Social Justice

CHI 2026

Program Committee (PC) for Short Papers

COMPASS 2023, 2025

Best Paper Judge

CI 2025

CSCW (2022–24), DIS (2023–24), COMPASS/JCSS (2023–25), CHI/alt.chi (2021–26)

3 special recognitions for outstanding reviews

Student Volunteer

COMPASS (2022, 2023), ICTD (2022), EASST-4S (2024)

Labor Tech Research Network

Speaker series coordinator

Aug 2023 – Aug 2024

Meet-up organizer

CSCW'23/'24, 4S '24/'25

Cornell Information Science Graduate Student Association

Weekly Seminar Organizer, Cross-Campus Retreat, Social Event Organizer

2021–2023

Student–Applicant Reading Program & Admissions Reviewer/Interviewer

2021–2024

Professional Development, Workshops, and Doctoral Consortia

Invited Opportunities

[CCC Grand Challenges Computational and Citizen Science Research Workshop](#)

Spring 2025

National Domestic Workers Alliance Care AI Tour

Spring 2025

[New England Computing & Data Science Rising Stars Program](#)

Fall 2024

[NextGen Professors Program at Cornell](#)

Fall 2023–Spring 2024

[CRA-WP Grad Cohort for Women](#)

Spring 2023

[Finding Your Research Voice Workshop at Cornell](#)

Fall 2022

Refiguring and Resisting Tech: Towards Just Transitions Workshop

Summer 2022

Conference Workshops

[Worker Data Collectives Workshop](#)

Fall 2024

[Doctoral Consortium at CSCW](#)

Fall 2023

[Doctoral Consortium at COMPASS](#)

Summer 2023, 2024

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Design x Policy Workshop

[The Future of Care Work: Towards a Radical Politics of Care Workshop](#)

[Activated: Decentering Activism in and with Academia Workshop](#)

[Collective Organizing and Social Responsibility Workshop](#)

Spring 2023

Fall 2021

Fall 2021

Fall 2020

Teaching and Mentoring

[Community-Engaged Learning Program for Cornell Faculty](#)

[EduCHI Pedagogy Workshop](#)

Fall 2024

Spring 2024

Advocacy and Governance

[Cornell Doctoral Student Advocacy Day](#)

U.S. Dept of State's Alumni Thematic International Seminar (TIES)

Spring 2023

Spring 2022