

Emma Harvey

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RESEARCH INTERESTS

Practical, interdisciplinary methods for assessing and improving the fairness of sociotechnical systems

EDUCATION

Cornell University

Aug. 2023 - present

PhD student in Information Science

Advisors: Allison Koenecke and Rene Kizilcec

University of Pennsylvania

Aug. 2013 - Dec. 2017

BA in Computer Science and Philosophy, Politics, & Economics

PUBLICATIONS

Conference Publications

Emma Harvey, Hauke Sandhaus, Abigail Jacobs, Emanuel Moss, and Mona Sloane. *The Cadaver in the Machine: The Social Practices of Measurement and Validation in Motion Capture Technology*. Forthcoming at the 2024 ACM CHI Conference on Human Factors in Computing Systems (CHI '24). [arXiv](#).

Sasha Costanza-Chock, **Emma Harvey**,¹ Inioluwa Deborah Raji, Martha Czernuszenko, and Joy Buolamwini. 2022. *Who Audits the Auditors? Recommendations from a field scan of the algorithmic auditing ecosystem*. In 2022 ACM Conference on Fairness, Accountability, and Transparency (FAccT '22). Association for Computing Machinery, New York, NY, USA, 1571–1583. doi.org/10.1145/3531146.3533213.

Workshop Publications and Presentations

Spotlight Presentation **Emma Harvey**, Allison Koenecke, and Rene Kizilcec. *Towards an Educator-Centered Method for Measuring Bias in Large Language Models*. Forthcoming at the AAAI 2024 Workshop on AI for Education.

Elena Gray, **Emma Harvey**, Kevin Coltin, and Greg Schwartz. 2022. *Creating a Covid-19 risk decision metric with an agent-based simulation model*. In 2022 American Public Health Association Annual Meeting and Expo (APHA '22). [Abstract](#).

Rhodri Dierst-Davies, Sarah Godby Vail, Sarah Ayton, Greg Lidrbauch, Jennifer Vargas, Nik Andric, **Emma Harvey**, Greg Schwartz, Miguel Garza, Javier Lozano, Alexandro Arias, Paulina Sosa, Paola Martinez and Jose Reyes. 2019. *A Mixed-Methods Approach Integrating Behavioral Insights and Data Analytics to Address Retention at Diabetes Clinics in Mexico: A Guide for Program Development*. In 2019 American Public Health Association Annual Meeting and Expo (APHA '19). [Abstract](#).

Emma Harvey, Nik Andric, Rhodri Dierst-Davies, Sarah Godby Vail, Greg Schwartz, Alexandro Arias, Kevin Coltin, Javier Lozano, Miguel Garza, Sarah Ayton, Greg Lidrbauch, Jose Reyes, Paulina Sosa, and Paola Martinez. *Pathway Analysis for Care Adherence Modeling*. In 2019 American Public Health Association Annual Meeting and Expo (APHA '19). [Abstract](#).

WORKING PAPERS

Emma Harvey, Michelle Seng Ah Lee, and Jatinder Singh. *Assessing Fairness without Access to Demographic Data*. 2023. Under review.

¹Due a request from my former employer, my name is not on the version of record. The authors' version is available on [arXiv](#).

WORK EXPERIENCE

New York University

Mar. 2023 - present

Research Assistant, Expanding AI Audits

Auditing the assumptions upon which motion capture systems are based under the supervision of [Abigail Jacobs](#), [Emanuel Moss](#), and [Mona Sloane](#)

University of Cambridge

Jul. 2021 - present

Research Assistant, Compliant and Accountable Systems

Researching practical methods for conducting fairness assessments of decision-making algorithms without access to demographic data under the supervision of [Jatinder Singh](#)

The Algorithmic Justice League

Sep. 2020 - Jun. 2023

Pro Bono Research Consultant

Led a team of research consultants providing pro bono support to the [Algorithmic Justice League](#) (AJL) to understand the algorithm auditing industry via interviews and a survey of practitioners and researchers

Deloitte Consulting

Feb. 2018 - Aug. 2023

Data Scientist, AI & Advanced Analytics

Created Deloitte's first ethical AI toolkit to detect bias in decision-making systems; used to audit algorithms in education, healthcare, and hiring

TEACHING

University of California San Diego

Co-Instructor, [Responsible AI Data Science Capstone](#), Prof. [David Danks](#)

Aug. 2022 - Mar. 2023

Carnegie Mellon University

Guest Lecturer, Designing Smart and Healthy Systems, Prof. [David Steier](#)

Sep. 2019 - Dec. 2021

University of Pennsylvania

Teaching Assistant, [Penn in Washington](#), Prof. [Deirdre Martinez](#)

May 2014 - Dec. 2017

SERVICE

Academic

Scheduling Co-Chair, ACM FAccT

2024

Program Committee Member, ACM FAccT

2024

Student Volunteer, ACM FAccT

2022

Community

Student Reviewer and Interviewer, Cornell Information Science PhD Admissions

2024

Mentor, [Cornell IS Student-Applicant Reading Program \(SARP\)](#)

2023

HONORS AND AWARDS

Summa Cum Laude, University of Pennsylvania (GPA 3.84 / 4.00)

2017