

Emma Harvey

evh29@cornell.edu |  emmaharv |  emmharv

RESEARCH INTERESTS

Practical, interdisciplinary methods for assessing and improving algorithmic fairness

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

– Cumulative GPA: 3.84 / 4.00 (Summa Cum Laude)

– Minor in Legal Studies and History

RESEARCH

New York University

Mar. 2023 - present

Research Assistant, Expanding AI Audits

– Auditing the assumptions upon which motion capture systems are based; supported by the [Notre Dame-IBM Technology Ethics Lab](#) 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 technical bias audits of decision-making algorithms when data on protected class membership is not available and proxy variables must be used instead under the supervision of [Jatinder Singh](#)

The Algorithmic Justice League

Sep. 2020 - Jun. 2023

Pro Bono Research Consultant

– Led a team of research consultants to provide pro bono research support to the [Algorithmic Justice League](#) (AJL) to inform their understanding of algorithmic auditing; conducted a field scan of the industry, interviews with industry leaders, and a survey of practitioners and researchers

The Wharton School

Mar. 2015 - Aug. 2015

Research Assistant, Business Economics and Public Policy

– Researched and analyzed regulatory and financial history of tax inversions; presented findings for [publication](#) in the National Tax Journal

TEACHING

University of California San Diego

Aug. 2022 - Mar. 2023

Capstone Mentor, Data Science

– Co-developed a [Responsible AI](#) section with [David Danks](#) for the Halicioğlu Data Science Institute's undergraduate capstone course

Carnegie Mellon University

Sep. 2019 - Dec. 2021

Guest Lecturer, Integrated Innovation Institute

- Contributed to development of a ‘Designing Smart and Healthy Systems’ mini course and guest-lectured for a ‘Communicating COVID: Using Data & Visualizations to Build Trust and Cause Action’ mini course, both taught by [David Steier](#)

University of Pennsylvania

May 2014 - Dec. 2017

Teaching & Programming Assistant, Penn in Washington

- Helped plan, develop, and TA courses taught by the [Penn in Washington](#) program in Philadelphia and DC

INDUSTRY

Deloitte Consulting

Feb. 2018 - Aug. 2023

Data Scientist, AI & Advanced Analytics

- Created Deloitte’s first ethical AI toolkit, including a framework and codebase, to detect bias in decision-making systems; used to audit a variety of algorithms in fields including education, healthcare, and hiring

PUBLICATIONS

Conference Proceedings

Sasha Costanza-Chock, **Emma Harvey**¹, Inioluwa Deborah Raji, 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.

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](#).

SERVICE

Conference Volunteering

Volunteer, ACM Conference on Fairness, Accountability, and Transparency

2022

HONORS AND AWARDS

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

2017

¹Due to a request from my employer, my name is currently dropped from the author list.