Emma Harvey

evh29@cornell.edu | emmaharv | emmharv

RESEARCH INTERESTS

Practical, interdisciplinary methods for assessing and improving algorithmic fairness

EDUCATION

Cornell University *Incoming Aug. 2023*

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 - present*

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 - present*

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 Szwartz. 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 Szwartz, 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 Szwartz, 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, Accounability, and Transparency   2022

HONORS AND AWARDS

Summa Cum Laude, University of Pennsylvania (GPA 3.84 / 4.00)   2017

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