Email: acoston@berkeley.edu

Phone: 703-401-1212

Employment

2024- UNIVERSITY OF CALIFORNIA, BERKELEY

Assistant Professor, Department of Statistics

Education

2017-2023 CARNEGIE MELLON UNIVERSITY

Ph.D. candidate in Machine Learning and Public Policy Advisors: Alexandra Chouldechova & Edward Kennedy

Thesis: "Principled machine learning for societally consequential decision making".

Committee: Edward Kennedy, Alexandra Chouldechova, Hoda Heidari, & Sendhil Mullainathan

2017-2019 CARNEGIE MELLON UNIVERSITY

M.S. in Machine Learning.

2009-2013 PRINCETON UNIVERSITY

B.S.E. magna cum laude in Computer Science

Certificate in the Princeton School of Public and International Affairs

Advisor: Robert Schapire

Thesis: "Machine learning techniques for the diagnosis of pediatric tuberculosis".

Selected Awards & Honors

2013

Research	
2024	Schmidt Sciences AI2050 Early Career Fellow
2023	CMU School of Computer Science Dissertation Award Honorable Mention
2023	Best Paper Award at ACM Conference on Fairness, Accountability, and Transparency (FAccT)
2023	William W. Cooper Doctoral Dissertation Award
2023	Best Paper Award at IEEE Conference on Secure and Trustworthy Machine Learning (SaTML)
2022	Rising Star in EECS by UT-Austin
2022	Rising Star in Machine Learning by University of Maryland
2022	Rising Star in Data Science by University of Chicago
2022	Meta Research PhD Fellow
2022	Future Leader in Responsible Data Science by University of Michigan Institute for Data Science
2020	K&L Gates Presidential Fellow in Ethics and Computational Technologies
2019	NSF Graduate Research Fellow
2019	Tata Consultancy Services Presidential Fellow
2019	Suresh Konda Best First Paper Award by Heinz College of Carnegie Mellon University
Service	
2020	Carolyn Comer Graduate Student Involvement Award by Carnegie Mellon University

Department of Computer Science Service Award by Princeton University

Research & Industry Experience

2023-2024 MICROSOFT RESEARCH (MSR) NEW ENGLAND Postdoc researcher, Machine Learning and Statistics 2021 FACEBOOK AI APPLIED RESEARCH (FAIAR) Research intern, Responsible AI 2020 REGLAB, STANFORD UNIVERSITY Research Fellow, Regulation, Evaluation, and Governance Lab at Stanford Law School 2018 IBM RESEARCH AI Science for Social Good Fellow 2017 HIVISASA Technical Consultant, Kenya 2015-2017 **TENEO** Data Scientist 2013-2015 **MICROSOFT** Program Manager, Bing 2010-2011 SHELTON PSYCHOLOGY LAB, PRINCETON UNIVERSITY Research Assistant

Research Interests

Theory: causal inference, machine learning, algorithmic fairness & societal impacts Application: child welfare, consumer credit lending, criminal justice, health policy

Publications & Manuscripts

Working Papers

<u>Coston A</u>, Kennedy EH. Counterfactual audit of racial bias in police traffic stops. *American Causal Inference Conference (ACIC) 2022* oral presentation (20% selection rate).

<u>Coston A</u>, Kennedy EH. The role of the geometric mean in case-control studies. arxiv.org:2207.09016

Rambachan A, <u>Coston A</u>, Kennedy EH. Robust design and evaluation of predictive algorithms under unmeasured confounding. *ACIC 2022. NeurIPS 2022 Workshop on Algorithmic Fairness through the Lens of Causality and Privacy.* arxiv.org:2212.09844

Publications

Guerdan L, Coston A, Wu ZS, Holstein K. Predictive performance comparison of decision policies under confounding. *Proceedings of the International Conference on Machine Learning (ICML)*. 2024; 16673-16705. http://proceedings.mlr.press/... (arxiv.org:2404.00848)

^{*} indicates joint lead authors

Kawakami A, Coston A, Zhu H, Heidari H, Holstein K. The Situate AI Guidebook: Codesigning a toolkit to support multi-stakeholder early-stage deliberations around public sector AI proposals. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*. 2024. doi:10.1145/3613904.3642849. (arxiv.org;2402.18774)

Kawakami A, <u>Coston A</u>, Heidari H, Holstein K, Zhu H. Studying up public sector AI: Shifting our gaze upwards to study systems of power in public sector AI. *To Appear in SIGCHI Conference on Computer-Supported Cooperative Work & Social Computing (CSCW)*. 2024. (arxiv.org:2405.12458)

Guerdan L, Coston A, Wu ZS, Holstein K. Counterfactual decision support under outcome measurement error. *Proceedings of the ACM Conference on Fairness, Accountability, and Transparency (FAccT).* 2023; 1584–1598. doi:10.1145/3593013.3594101. (arxiv.org:2302.11121) **Best Paper Award** by FAccT

Field A, <u>Coston A</u>, Gandhi N, Chouldechova A, Putnam-Hornstein E, Steier D, Tsvetkov Y. Examining risks of racial biases in NLP tools for Child Protective Services. *Proceedings of the ACM Conference on Fairness, Accountability, and Transparency (FAccT)*. 2023; 1479–1492. doi:10.1145/3593013.3594094

Guerdan L, <u>Coston A</u>, Wu ZS, Holstein K. Ground(Less) truth: A causal framework for proxy labels in human-algorithm decision making. *Proceedings of the ACM Conference on Fairness, Accountability, and Transparency (FAccT)*. 2023; 688–704. doi:10.1145/3593013.3594036 (arxiv.org:2302.06503)

Coston A, Kawakami A, Zhu H, Holstein K, Heidari H. A validity perspective on evaluating the justified use of data-driven decision-making algorithms. *IEEE Conference on Secure and Trustworthy Machine Learning (SaTML)*. 2023. (arxiv.org:2206.14983). **Best Paper Award** by SaTML

Coston A*, Rambachan A*, Chouldechova A. Characterizing fairness over the set of good models under selective labels. *Proceedings of the International Conference on Machine Learning (ICML)*. 2021; 2144-2155. http://proceedings.mlr.press/... (arxiv.org:2101.00352)

<u>Coston A</u>, Guha N, Ouyang D, Lu L, Chouldechova A, Ho DE. Leveraging administrative data for bias audits: Assessing disparate coverage with mobility data for COVID-19 policy. *Proceedings of the ACM Conference on Fairness, Accountability, and Transparency (FAccT)*. 2021; 173-184. doi:10.1145/3442188.3445881 (arxiv.org:2011.07194)

Coston A, Kennedy EH, Chouldechova A. Counterfactual predictions under runtime confounding. *Advances in Neural Information Processing Systems 33 (NeurIPS)*. 2020; 4150-4162. https://papers.nips.cc/paper/... (arxiv.org:2006.16916)

Coston A, Mishler A, Kennedy EH, Chouldechova A. Counterfactual risk assessments, evaluation, and fairness. *Proceedings of the ACM Conference on Fairness, Accountability, and Transparency (FAccT).* 2020; 582-593. doi:10.1145/3351095.3372851 (arxiv.org:1909.00066)

Zhao H, Coston A, Adel T, Gordon GJ. Conditional learning of fair representations. *International Conference on Learning Representations (ICLR)*. 2020. https://iclr.cc/... (arxiv.org:1910.07162)

Li L, Zuo R, <u>Coston A</u>, Weiss JC, Chen GH. Neural topic models with survival supervision: Jointly predicting time-to-event outcomes and learning how clinical features relate. *International Conference on Artificial Intelligence in Medicine (AIME)*. 2020; 371-381. https://link.springer.com/... (arxiv.org:2007.07796)

Coston A, Ramamurthy KN, Wei D, Varshney KR, Speakman S, Mustahsan Z, Chakraborty S. Fair transfer learning with missing protected attributes. *Proceedings of the AAAI ACM Conference on Artificial Intelligence, Ethics, and Society (AIES)*. 2019; 91-98. doi:10.1145/3306618.3314236

Book Chapter

<u>Coston A</u>, Rubio MD, Kennedy EH. Statistical analysis of randomized experiments. *AI for Social Impact*. ai4sibook.org

Peer-reviewed non-archival papers

Kawakami A, <u>Coston A</u>, Heidari H, Holstein K, Zhu H. Studying up public sector AI: Shifting our gaze upwards to study systems of power in public sector AI. *ACM conference on Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO 2023)*. oral presentation (18% selection rate)

Kawakami A, <u>Coston A</u>, Zhu H, Heidari H, Holstein K. Recentering validity considerations through early-stage deliberations around AI and policy design. *CHI 2023 Workshop on Designing Technology and Policy*.

Rambachan A, Coston A, Kennedy EH. Counterfactual risk assessments under unmeasured confounding. *ACIC* 2022. *NeurIPS* 2022 Workshop on Algorithmic Fairness through the Lens of Causality and Privacy. arxiv.org:2212.09844

Guerdan L, <u>Coston A</u>, Wu ZS, Holstein K. Counterfactual decision support under treatment-conditional outcome measurement error. *NeurIPS 2022 Workshop on Causality for Real-world Impact*.

Guerdan L, <u>Coston A</u>, Wu ZS, Holstein K. Ground(less) truth: The problem with proxy outcomes in human-AI decision making. *NeurIPS 2022 Workshop on Human-Centered AI*.

<u>Coston A</u>, Kennedy EH. Counterfactual audit of racial bias in police traffic stops. *ACIC* 2022 oral presentation (20% selection rate).

Coston A, Kawakami A, Zhu H, Holstein K, Heidari H. A validity perspective on evaluating the justified use of data-driven decision-making algorithms. *ACM conference on Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO 2022)*. arxiv.org:2206.14983

<u>Coston A</u>, Kennedy EH, Chouldechova A. Counterfactual risk assessments, evaluation, and fairness. *NeurIPS 2019 Workshop on Causal Machine Learning*.

<u>Coston A</u>, Kennedy EH, Chouldechova A. Counterfactual risk assessments and evaluation for child welfare screening. *ACIC 2019*.

<u>Coston A</u>, Leqi L. Offline heterogeneous policy evaluation: A causal approach. *ICML 2018 Workshop on Causal ML*.

Presentations

Invited Talks	
2024	Statistical Approaches to Fair Decision Making, Joint Statistical Meetings, Virtual
2024	Schmidt Sciences AI2050 Fellows Summit, Palo Alto, CA
2024	Bridging Prediction and Intervention Problems in Social Systems, Banff International Research Station (BIRS), Banff, CA
2024	Toronto Data Workshop, Virtual
2024	Workshop on Operationalizing NIST AI RMF, Northeastern University, Boston, MA
2024	Applied Statistics Workshop, Department of Government and Institute for Quantitative Social Science, Harvard University, Boston, MA
2024	Econometrics Seminar, Department of Economics, Harvard University, Boston, MA
2023	Bringing Statistical Thinking into Fair, Transferrable Machine Learning, Institute of Mathematical Sciences International Conference on Statistics and Data Science, Lisbon, Portugal
2023	Department of Human Services: Analytics, Technology, and Planning, Allegheny County, Pittsburgh, PA
2023	Theory of Computing for Fairness (TOC4Fairness) Seminar Series, Simons Foundation, Virtual
2023	Public Policy and the AI Revolution, Association for Public Policy Analysis & Management, Atlanta, GA
2023	Quantitative Methods Workshop, Yale University, New Haven, CT
2023	Statistically Significant: Equity Concerns in Algorithmic Bias, Privacy, and Survey Representation, Joint Statistical Meetings, Toronto, CA
2023	K&L Gates Conference in Ethics and AI, Carnegie Mellon University, Pittsburgh, PA
2023	Multigroup Fairness and the Validity of Statistical Judgment, Simons Institute for the Theory of Computing, Berkeley, CA
2023	Automated Decision Systems Reading Group, University of California, Berkeley, CA
2023	Center for Information Technology Policy Lecture, Princeton University, Princeton, NJ
2023	Department of Computer Science, George Mason University, Fairfax, VA
2023	AI Seminar, New York University, New York, NY
2023	Data Science Initiative seminar, Brown University, Providence, RI
2023	Department of Engineering and Public Policy seminar, Carnegie Mellon University, Pittsburgh, PA
2023	Khoury College of Computer Sciences Lecture, Northeastern University, Boston, MA
2023	Department of Computer Science, University of Maryland, College Park, MD
2023	Halicioglu Data Science Institute and the School of Global Policy and Strategy, University of California, San Diego, CA
2023	Department of Statistics, University of California, Berkeley, CA
2023	McCourt School of Public Policy, Georgetown University, Washington, D.C.
2023	Information Science Colloquium Series, Cornell Unversity, Ithaca, NY
2023	The Division of Decision, Risk, and Operations, Columbia Graduate School of Business, New York, NY

2023	The School of Data Science Colloquium, University of Virginia, Charlottesville, VA
2023	Econometrics & Statistics group, University of Chicago Booth School of Business, Chicago, IL
2022	Operations, Information, and Decisions Department, Wharton School of the University of Penn-
	sylvania, Philadelphia, PA
2022	Symposium on Frontiers of Machine Learning & AI, University of Southern California, LA, CA
2022	INFORMS Session on Finding Sets of Near-Optimal Solutions for Mixed-Integer Programs, In-
	dianapolis, IN
2022	Brown University Bravo Center Workshop on the Economics of Algorithms, Providence, RI
2022	Stanford University RegLab Summer Institute Speaker Series, Virtual
2021	Merck Data Science All Hands, Virtual
2021	Johns Hopkins University Causal Inference Working Group, Virtual
2021	PlaceKey COVID-19 Data Consortium, Virtual
2021	University of Pennsylvania Department of Biostatistics and Epidemiology, Virtual
2020	University of Chicago Crime Lab, Virtual
Doctoral Cons	sortia
2022	EAAMO (ACM conference on Equity & Access in Algorithms, Mechanisms, and Optimization)
2022	FAccT (ACM Conference on Fairness, Accountability, and Transparency)
2020	FAccT (ACM Conference on Fairness, Accountability, and Transparency)
2019	AIES (AAAI / ACM Conference on Artificial Intelligence, Ethics, and Society)
Patents	
2022	Enhancing Fairness in Transfer Learning for Machine Learning Models with Missing Protected Attributes in Source or Target Domains. Supriyo Chakraborty, <u>Amanda Coston</u> , Zairah Mustahsan, Karthikeyan Natesan Ramamurthy, Skyler Speakman, Kush R. Varshney, and Dennis Wei. US 11,443,236. <i>Granted</i> .
2022 Service	Attributes in Source or Target Domains. Supriyo Chakraborty, <u>Amanda Coston</u> , Zairah Mustahsan, Karthikeyan Natesan Ramamurthy, Skyler Speakman, Kush R. Varshney, and Dennis Wei.
Service	Attributes in Source or Target Domains. Supriyo Chakraborty, <u>Amanda Coston</u> , Zairah Mustahsan, Karthikeyan Natesan Ramamurthy, Skyler Speakman, Kush R. Varshney, and Dennis Wei.
	Attributes in Source or Target Domains. Supriyo Chakraborty, <u>Amanda Coston</u> , Zairah Mustahsan, Karthikeyan Natesan Ramamurthy, Skyler Speakman, Kush R. Varshney, and Dennis Wei.
Service	Attributes in Source or Target Domains. Supriyo Chakraborty, <u>Amanda Coston</u> , Zairah Mustahsan, Karthikeyan Natesan Ramamurthy, Skyler Speakman, Kush R. Varshney, and Dennis Wei.
Service Organization	Attributes in Source or Target Domains. Supriyo Chakraborty, <u>Amanda Coston</u> , Zairah Mustahsan, Karthikeyan Natesan Ramamurthy, Skyler Speakman, Kush R. Varshney, and Dennis Wei. US 11,443,236. <i>Granted</i> .
Service Organization 2019-2023	Attributes in Source or Target Domains. Supriyo Chakraborty, <u>Amanda Coston</u> , Zairah Mustahsan, Karthikeyan Natesan Ramamurthy, Skyler Speakman, Kush R. Varshney, and Dennis Wei. US 11,443,236. <i>Granted</i> . Steering Committee of Machine Learning for Developing World (ML4D) NeurIPS Workshop
Service Organization 2019-2023 2019-2020	Attributes in Source or Target Domains. Supriyo Chakraborty, <u>Amanda Coston</u> , Zairah Mustahsan, Karthikeyan Natesan Ramamurthy, Skyler Speakman, Kush R. Varshney, and Dennis Wei. US 11,443,236. <i>Granted</i> . Steering Committee of Machine Learning for Developing World (ML4D) NeurIPS Workshop Co-organizer of Fairness, Ethics, Accountability, and Transparency Reading Group at CMU
Service Organization 2019-2023 2019-2020 2019-2020 2018-2019	Attributes in Source or Target Domains. Supriyo Chakraborty, Amanda Coston, Zairah Mustahsan, Karthikeyan Natesan Ramamurthy, Skyler Speakman, Kush R. Varshney, and Dennis Wei. US 11,443,236. <i>Granted</i> . Steering Committee of Machine Learning for Developing World (ML4D) NeurIPS Workshop Co-organizer of Fairness, Ethics, Accountability, and Transparency Reading Group at CMU Co-organizer of Machine Learning Department (MLD) Tea at CMU Co-organizer of ML4D NeurIPS Workshop
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Service Organization 2019-2023 2019-2020 2019-2020 2018-2019	Attributes in Source or Target Domains. Supriyo Chakraborty, Amanda Coston, Zairah Mustahsan, Karthikeyan Natesan Ramamurthy, Skyler Speakman, Kush R. Varshney, and Dennis Wei. US 11,443,236. <i>Granted</i> . Steering Committee of Machine Learning for Developing World (ML4D) NeurIPS Workshop Co-organizer of Fairness, Ethics, Accountability, and Transparency Reading Group at CMU Co-organizer of Machine Learning Department (MLD) Tea at CMU Co-organizer of ML4D NeurIPS Workshop Nature Human Behaviour Journal of the Royal Statistical Society (JRSS-B)
Service Organization 2019-2023 2019-2020 2019-2020 2018-2019	Attributes in Source or Target Domains. Supriyo Chakraborty, Amanda Coston, Zairah Mustahsan, Karthikeyan Natesan Ramamurthy, Skyler Speakman, Kush R. Varshney, and Dennis Wei. US 11,443,236. <i>Granted</i> . Steering Committee of Machine Learning for Developing World (ML4D) NeurIPS Workshop Co-organizer of Fairness, Ethics, Accountability, and Transparency Reading Group at CMU Co-organizer of Machine Learning Department (MLD) Tea at CMU Co-organizer of ML4D NeurIPS Workshop Nature Human Behaviour Journal of the Royal Statistical Society (JRSS-B) Journal of the American Statistical Association (JASA) Transactions on Machine Learning Research Data Mining and Knowledge Discovery
Service Organization 2019-2023 2019-2020 2019-2020 2018-2019	Attributes in Source or Target Domains. Supriyo Chakraborty, Amanda Coston, Zairah Mustahsan, Karthikeyan Natesan Ramamurthy, Skyler Speakman, Kush R. Varshney, and Dennis Wei. US 11,443,236. Granted. Steering Committee of Machine Learning for Developing World (ML4D) NeurIPS Workshop Co-organizer of Fairness, Ethics, Accountability, and Transparency Reading Group at CMU Co-organizer of Machine Learning Department (MLD) Tea at CMU Co-organizer of ML4D NeurIPS Workshop Nature Human Behaviour Journal of the Royal Statistical Society (JRSS-B) Journal of the American Statistical Association (JASA) Transactions on Machine Learning Research

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2024

2023

Reviewer, ICML

Ethical Reviewer, NeurIPS

2023	Program Committee, EAAMO	
2023	Reviewer, ICLR	
2022	Ethical Reviewer, NeurIPS	
2022	Reviewer, NeurIPS	
2022	Reviewer, NeurIPS Datasets and Benchmarkts	
2022	Program Committee, EAAMO	
2022	Program Committee, FAccT	
2022	Reviewer, ICML	
2022	Reviewer, ICLR	
2021	Area Chair, Responsible AI workshop at ICLR	
2021	Ethical Reviewer, NeurIPS	
2021	Reviewer, NeurIPS	
2021	Reviewer, NeurIPS Datasets and Benchmarkts	
2021	Program Committee, FAccT	
2021	Reviewer, ICML	
2020	Reviewer, NeurIPS	
2020	Program Committee, FAccT	
2020	Reviewer, ICML	
2020	Program Committee, AIES	
2020	Program Committee, AAAI Emerging Track on AI for Social Impact	
2019	Program Committee, IJCAI Workshop on AI for Social Good	
Leadership		
2012-2013	Committee on Discipline, Princeton University	
2012-2013	Computer Science Undergraduate Council, Princeton University	
Invited Confer	ence & Workshop Roles	
2022	Roundtable Lead for NeurIPS Workshop on Algorithmic Fairness through Lens of Causality	
2022	Breakout Group Moderator for CCC & INFORMS Workshop II on AI/OR	
2022	Breakout Group Moderator for NSF-Amazon Fairness in AI Principal Investigator meeting	
2022	Session Chair for Responsible Data Management Session at FAccT	
Teaching Experience		
Instructor		
2024 Fall	Causal Inference (STAT 156/256), UNIVERSITY OF CALIFORNIA, BERKELEY	
Teaching Assistant		
2021 Spring	Introduction to Machine Learning (10-301/10-601), CARNEGIE MELLON UNIVERSITY	
2012 Fall	Computers in our World (COS 109), PRINCETON UNIVERSITY	
Project Instructor		

7

Developed and led a project on algorithms, criminal justice, & fairness for high schoolers

AI4ALL, CARNEGIE MELLON UNIVERSITY

2019 Summer

from historically excluded communities.

Mentorship		
2022 2022	We was 6,000 Market	
2022-2023	Women@SCS Mentor	
2019-2023	CMU AI Mentor	
2019	Women@SCS Roundtable Leader	
2016-2017	Read Ahead Mentor	
2014-2015	MySkills4Afrika (Microsoft) Virtual Mentor	
Hackathon Distin	nctions	
2015	Microsoft OneWeek Hackathon, Bing Finalist	
	▶ Web answer to enable victims of revenge porn to remove content from Bing and OneDrive	
2013	NYU-Abu Dhabi Hackathon for the Social Good, 2nd Place	
	▶ Android app for sharing a travel route to facilitate safe travel for women	
2012	Tiger Launch, Social Entrepreneurship, 3rd Place	
	▶ Web service using QR codes to empower consumers to support value-aligned businesses	
Civic Engagemen	nt	
2014-2015	Court Appointed Special Advocate, Family Law CASA	
	▶ Represented the child's interest in family law cases	
2010-2012	Engineers Without Borders	
	Dobtained & configured 50 One Laptop Per Child netbooks for a library in Ashaiman, Ghana	
2007-2008	Congressional Intern, U.S. House of Representatives	
	▷ Office of Congressman John Spratt representing South Carolina's 5th congressional district	
Media Coverage		
2021	"Smartphone Location Data Can Leave Out Those Most Hit by Covid-19." Wall Street Jour-	
2021	nal. https://www.wsj.com/articles/	
2020	"Stanford and Carnegie Mellon find race and age bias in mobility data that drives COVID-19	
	policy." VentureBeat. https://venturebeat.com/ai/	