

Jessie J. Smith

Responsible AI • ML Fairness • Harm Mitigation • UX Research

[Portfolio](#) | [LinkedIn](#) | [GitHub](#) | [Google Scholar](#) | [Twitter/X](#)

Education

University of Colorado Boulder (CU Boulder) | Doctor of Philosophy (PhD)

Information Science | PhD Candidate

August 2019 - January 2025

PhD Committee: [Casey Fiesler](#) (CU Boulder), [Robin Burke](#) (CU Boulder), [Jed Brubaker](#) (CU Boulder), [Jennifer Wortman Vaughan](#) (Microsoft Research), [Michael Madaio](#) (Google Research)

Focused on scoping, defining, measuring, and operationalizing fairness for ML systems; translating stakeholder needs into ML algorithm and platform design; and creating resources to help ML practitioners identify and mitigate harms for generative AI and recommender systems.

California Polytechnic State University (Cal Poly) | Bachelor of Science (BS)

Software Engineering

September 2014 - December 2018

Industry and Professional Experience

Adobe Generative AI Harm & Bias Evaluation Contractor	2024 - Present
Allen Institute for AI AI Ethics & Society Research Consultant	2023 - Present
Spotify Algorithmic Impact & Harm Research Intern	Summer 2022
Apple Machine Learning Robustness Analysis Intern	Spring 2022
Microsoft Research FATE (AI/ML Ethics) Research Intern	Summer 2021
Ethical Intelligence Co AI Ethics Expert and Consultant	2020 - 2023
The Radical AI Podcast Co-Host and Co-Founder	2020 - 2023
IEEE Standards Association AI Ethics Podcaster	2020 - 2022
DataPico Colombia Data Science and Government Data Intern	Summer 2019
GoDaddy Software Engineering Intern (backend)	Summer 2018

GoDaddy | Software Engineering Intern (frontend)

Summer 2017

Research Experience


Google Research PhD Research Fellow	2022 - Present
CU Boulder Research Assistant, Human-Centered Explainable AI	Spring 2021
CU Boulder Researcher, Internet Rules Lab	2019 - Present
CU Boulder Researcher, That Recommender Systems Lab	2019 - Present
Cal Poly Machine Learning Ethics Researcher, Data Science	2018 - 2019
Cal Poly Research Assistant, Ethics and Emerging Sciences Lab	2018 - 2019

Honors and Awards

Best Paper Award ACM Fairness, Accountability, and Transparency (FAcCT) Conference	2024
Computer Science PhD Fellowship Google Research	2022 - 2025
Graduate School Travel Grant CU Boulder	2023, 2024
CMCI Research Funds CU Boulder	2023
Graduate Student Outreach Award CU Boulder	2021
Finalist, Tech Ethics Competition Wolf Law School	2020
Activities Fund Research Grant ACM SIGAI	2020

Peer-Reviewed Publications

Full Papers

 **Best Paper Award:** **Jessie J. Smith**, Aishwarya Satwani, Robin Burke, and Casey Fiesler. 2024. Recommend Me? Designing Fairness Metrics with Providers. In FAcCT '24: ACM Conference on Fairness, Accountability and Transparency, June 03–06, 2024, Rio de Janeiro, Brazil. ACM, New York, NY, USA, 17 pages.

Jessie J. Smith and Anas Buhayh, Anushka Kathait, Pradeep Ragothaman, Nicholas Mattei, Robin Burke, and Amy Voida. 2023. The Many Faces of Fairness: Exploring the Institutional Logics of Multistakeholder Microlending Recommendation. In FAccT '23: ACM Conference on Fairness, Accountability and Transparency, June 12–15, 2023, Chicago, IL. ACM, New York, NY, USA, 17 pages.

Jessie J. Smith, Lex Beattie, Henriette Cramer. 2023. Scoping Fairness Objectives and Identifying Fairness Metrics for Recommendation: The Practitioners' Perspective. The International World Wide Web Conference (WWW '23), April 30 – May 4, 2023, Austin, Texas, USA.

Jessie J. Smith, Blakeley H. Payne, Shamika Klassen, Dylan Thomas Doyle, Casey Fiesler. 2023. Incorporating Ethics in Computing Courses: Barriers, Support, and Perspectives from Educators. The Technical Symposium on Computer Science Education (SIGCSE TS '23), March 15 – 18, 2023, Toronto, Ontario, Canada.

Jessie J. Smith, Saleema Amershi, Solon Barocas, Hanna Wallach, Jennifer Wortman Vaughan. REAL ML: Recognizing, Exploring, and Articulating Limitations of Machine Learning Research. In Proceedings of the ACM Conference on Fairness, Accountability, and Transparency (ACM FAccT). June 21 – 24, 2022, Seoul, South Korea.

Nasim Sonboli and **Jessie J. Smith**, Florencia Cabral Berenfus, Robin Burke, and Casey Fiesler. 2021. Fairness and Transparency in Recommendation: The Users' Perspective. In Proceedings of the 29th ACM Conference on User Modeling, Adaptation and Personalization (UMAP '21), June 21–25, 2021, Utrecht, Netherlands. ACM, New York, NY, USA, 6 pages.

Casey Fiesler, Solon Barocas, Augustin Chaintreau, **Jessie J. Smith**, Michael Zimmer. 2021. A Crash Course in Motivating, Supporting and Expanding Ethical Thinking in the Tech Classroom. Tutorial at the Proceedings of the ACM Conference on Fairness, Accountability, and Transparency (ACM FAccT), March 3-10, 2021, Virtual Conference.

Casey Fiesler, Mikhaila Friske, Natalie Garrett, Felix Muzny, **Jessie J. Smith**, and Jason Zietz. 2021. Integrating Ethics into Introductory Programming Classes. In Proceedings of the 52nd ACM Technical Symposium on Computer Science Education (SIGCSE '21), March 13–20, 2021, Virtual Event, USA. ACM, New York, NY, USA, 7 pages.

Vito Walter Anelli, Amra Delić, Gabriele Sottocornola, **Jessie J. Smith**, Nazareno Andrade, Luca Belli, Michael Bronstein, Akshay Gupta, Sofia Ira Ktena, Alexandre Lung-Yut-Fong, Frank Portman, Alykhan Tejani, Yuanpu Xie, Xiao Zhu, and Wenzhe Shi. 2020. RecSys 2020 Challenge Workshop: Engagement Prediction on Twitter's Home Timeline. In Fourteenth ACM Conference on Recommender Systems (RecSys '20). Association for Computing Machinery, New York, NY, USA, 623–627.

Mansoury, Masoud, Himan Abdollahpouri, **Jessie J. Smith**, Arman Dehpanah, Mykola

Pechenizkiy, and Bamshad Mobasher. "Investigating potential factors associated with gender discrimination in collaborative recommender systems." In The thirty-third international flairs conference. 2020.

Workshops / Small Papers

Jessie J. Smith, Lex Beattie. 2022. RecSys Fairness Metrics: Many to Use But Which One to Choose? In FAccTRec Workshop at Sixteenth ACM Conference on Recommender Systems (RecSys '22), September 18-23, 2022, Seattle, WA, USA. ACM, NY, USA.

Jessie J. Smith, Lucia Jayne, and Robin Burke. 2022. Recommender Systems and Algorithmic Hate. Late Breaking Results. In Sixteenth ACM Conference on Recommender Systems (RecSys '22), September 18-23, 2022, Seattle, WA, USA. ACM, New York, NY, USA, 6 pages.

Jessie J. Smith. 2022. Developing a Human-Centered Framework for Transparency in Fairness-Aware Recommender Systems. Doctoral Symposium. In Sixteenth ACM Conference on Recommender Systems (RecSys '22), September 18-23, 2022, Seattle, WA, USA. ACM, New York, NY, USA, 2 pages.

Dylan Doyle-Burke and **Jessie J. Smith**. "What is Radical AI? Towards a Common Definition and our Collective Liberation." Nov. 2020. Resistance AI Workshop at the Proceedings of NeurIPS 2020.

Jessie J. Smith, Nasim Sonboli, Casey Fiesler, Robin Burke. "Exploring User Opinions of Fairness in Recommender Systems." ArXiv:2003.06461 [Cs], Mar. 2020. arXiv.org, <http://arxiv.org/abs/2003.06461> Fair and Responsible AI Workshop at CHI 2020.

Pinter, Anthony T., Jacob M. Paul, **Jessie J. Smith**, and Jed R. Brubaker. "P4kxspotify: A dataset of pitchfork music reviews and spotify musical features." In Proceedings of the International AAAI Conference on Web and Social Media, vol. 14, pp. 895-902. 2020.

Teaching Experience

Instructor of Record

Adjunct Instructor

Fall 2023

INFO 1301: Statistics for Information Science
University of Colorado Boulder

Adjunct Instructor

Spring 2023

INFO 2001/4001: Information Science Portfolio and Professional Development

University of Colorado Boulder

Instructor

Data Ethics Modules: The Data Lab
University of Edinburgh

Spring 2023

Adjunct Instructor

INFO 1201: Computational Reasoning 1 - Expression and Media Transformation
University of Colorado Boulder

Summer 2020

Guest Lectures and Teaching Assistant Roles

Guest Lecture | Designing Fairness with Impacted Stakeholders

CSCI 2925W: Critical Data and Machine Learning Studies
Brown University

Fall 2024

Guest Lecture | Fairness in Machine Learning and AI

INFO 5601: Information Ethics and Policy
University of Colorado Boulder

Fall 2024

Guest Lecture | The Basics of Machine Learning Fairness

INFO 5871: Special Topics: Machine Learning Fairness
University of Colorado Boulder

Fall 2024

Guest Lecturer | NLP, LLM & Generative AI Ethics

AHUM 1825: Interdisciplinary Data Science for All
University of Colorado Boulder

Fall 2023

Guest Lecture | Fairness in Machine Learning and AI

INFO 5601: Information Ethics and Policy
University of Colorado Boulder

Fall 2023

Guest Lecture | Fairness in Recommender Systems

INFO 5612: Recommender Systems
University of Colorado Boulder

Fall 2023

Guest Lecture | Fairness in Machine Learning and AI

INFO 5601: Information Ethics & Policy
University of Colorado Boulder

Spring 2023

Guest Lecture | Data Ethics

Spring 2023

INFO 5601: Information Ethics & Policy
University of Colorado Boulder

Guest Lecture: Fairness in Machine Learning and AI Fall 2022
INFO 4601: Information Ethics & Policy
University of Colorado Boulder

Guest Lecturer & Grader | Fairness in Machine Learning and AI Fall 2021
INFO 4601/5601: Information Ethics & Policy
University of Colorado Boulder

Teaching Assistant Fall 2020
INFO 1111: Introduction to Information Science: Understanding the
World Through Data
University of Colorado Boulder

Teaching Assistant Spring 2020
INFO 2201: Computational Reasoning 2: Representations of Data
University of Colorado Boulder

Teaching Assistant Fall 2019
INFO 1201: Computational Reasoning 1: Expression and Media
Transformation
University of Colorado Boulder

Guest Lecture | Machine Learning Fairness Spring 2018
Data Science Club
California Polytechnic State University

Guest Lecture | Data Privacy and Contextual Integrity Spring 2018
CPE 300: Professional Responsibilities (Computer Ethics)
California Polytechnic State University

Academic Service Positions

Student Volunteer 2023
ACM FAccT Conference

Graduate Student Association (GSA) Board Member 2022 - 2023
Information Science Department at CU Boulder

Graduate Student Association (GSA) President 2020 - 2021

Information Science Department at CU Boulder

Academic Chair RecSys 2020 Challenge ACM RecSys Conference	2019 - 2020
Student Volunteer ACM FAccT (FAT*) Conference	2020
Student Volunteer ACM RecSys Conference	2019

Paper Reviewing

CHI, FAccT (<i>PC Member</i>), JASIST	2024
RecSys (<i>PC Member</i>), JASIST, FAccT (<i>PC Member</i>), CSCW, Journal for Responsible Computing	2023
CSCW	2022
Big Data and Society, CSCW, CHI, IDC, RecSys (<i>PC Member</i>)	2021
CSCW	2020

Invited Talks and Panels

The Generative AI Ethics Playbook <i>Invited Talk</i> The Gates Foundation	2024
Fairness frameworks and logics in recommendation systems <i>Invited Talk</i> Diversity, Explainability, Fairness in information retrieval, recommendation, and search systems (DEFIRST Reading Group)	2024
Preparing for a career in AI and ML <i>Invited Talk</i> University of Minnesota	2023
Artificial Intelligence: What Our Future Holds <i>Invited Panelist</i>	2023

2nd Annual Community College Data Science Conference

Algorithmic Fairness 101 2022

Invited Talk

Data Science Team Companion Course

Computer Science Ethics as a Career 2022

Invited Talk

Hathaway Brown High School for Women in STEM

My Journey into CS Ethics and Why this Field is so Important 2021

Invited Webinar Speaker

National Center for Women and Information Technology (NCWIT)

Measurement and How We Define Success in the Algorithmic Age 2021

Invited Panelist

IEEE Standards Association

Privacy Preserving Recommendation on Twitter's Timeline 2020

Invited Panel Moderator

ACM RecSys Conference

Public Scholarship on Technology Ethics

[The Radical AI Podcast](#)

Co-Host and Co-Founder

2020 - 2023

AI and tech ethics podcast centering marginalized and/or radical ideas and voices. Reached hundreds of thousands of downloads across 54 countries around the world.

[SciFi in Real Life](#)

Co-Host and Co-Founder

2019 - 2021

YouTube channel discussing modern ethical dilemmas in tech related to science fiction.

[Medium Articles](#)

Published Author

2018 - 2022

Articles on technology ethics.

Published articles in Towards Data Science, The Startup, HackerNoon, and others.

Other Skills and Expertise

Research Expertise: qualitative methods, thematic analysis, iterative design, co-design, interviews, survey design, algorithmic auditing, participatory design workshops, focus groups, statistical inference

Programming expertise: Python, GitHub, Java, JavaScript, C, R, HTML/CSS, React

Skills: Public speaking, podcasting, interviewing, software engineering, programming AI and machine learning models, writing, researching, public scholarship, teaching, managing teams and projects, research design

Languages: English (Fluent), Spanish (Working Proficiency)