

Education

University of Colorado Boulder

PhD Student, Information Science, 2019 - 2024

Researching under the supervision of Professor Casey Fiesler and Professor Robin Burke, with a particular focus on fairness, transparency, and algorithmic auditing in recommendation and other machine learning applications, as well as incorporating ethics into the Computer Science classroom.

California Polytechnic State University

Bachelor of Science, Software Engineering, December 2018

Research Experience

- **Research Intern on Fairness, Accountability, Transparency and Ethics in AI (FATE)**, Microsoft Research (MSR) Summer 2021
- **Research Assistant on Human-Centered Explainable AI**, University of Colorado Boulder (CU Boulder) Jan 2021 – June 2021
- **Researcher**, [The Internet Rules Lab](#), CU Boulder Aug 2019 - Present
- **Researcher**, [That Recommender Systems Lab](#), CU Boulder Aug 2019 - Present
- **Machine Learning Ethics Researcher**, Cal Poly Data Science Jan 2018 - Aug 2019
- **Research Assistant for the Ethics + Emerging Sciences Group**, Cal Poly Philosophy Department Oct 2018 – Mar 2019

Industry and Professional Experience

- **Algorithmic Responsibility Intern**, Spotify Summer 2022
- **Machine Learning Robustness Analysis Intern**, Apple Spring 2022
- **Research Intern on Fairness, Accountability, Transparency and Ethics in AI (FATE)**, Microsoft Research (MSR) Summer 2021
- **Podcaster and Researcher for AI Ethics**, IEEE Standards Association 2020 - Present
- **AI Ethics Expert and Consultant**, Ethical Intelligence Co 2020 - Present
- **Co-Founder and Co-Host**, The Radical AI Podcast 2020 - Present
- **Data Science Intern**, Datapico Colombia Summer 2019
- **Software Engineering Intern (backend)**, GoDaddy Summer 2018
- **Software Engineering Intern (frontend)**, GoDaddy Summer 2017

Honors and Awards

- **Computer Science PhD Fellowship**, Google August 2022 – May 2024
- **Grad Student Outreach Award**, CU Boulder Information Science May 2021
- **Finalist for Tech Ethics Competition**, Wolf Law School Feb 2020
- **SIGAI Activities Fund Research Grant**, Awarded by ACM Oct 2020

Peer-Reviewed Publications and Accepted Content

(Submitted, Under Review) **Jessie J. Smith**, Saleema Amershi, Solon Barocas, Hanna Wallach, Jennifer Wortman Vaughan. REAL ML: Recognizing, Exploring, and Articulating Limitations in Machine Learning Research. *Submitted for peer review at the 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. <https://doi.org/10.1145/3450613.3456835>

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.*

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.*

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. <https://doi.org/10.1145/3408877.3432510>

Smith, Jessie, et al. “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.*

Mansoury, M., Abdollahpouri H., **Smith J.**, Dehpanah A., Pechenizkiy M., Mobasher, B. “Investigating Potential Factors Associated with Gender Discrimination in Collaborative Recommender Systems.” *Proceedings of the Thirty-Third International Florida Artificial Intelligence Research Society Conference.* ArXiv:2002.07786 [Cs], Feb. 2020. arXiv.org, <http://arxiv.org/abs/2002.07786>.

Pinter, A. T., Paul, J. M., **Smith, J.**, & Brubaker, J. R. (2020). P4KxSpotify: A Dataset of Pitchfork Music Reviews and Spotify Musical Features. *Proceedings of the International AAAI Conference on Web and Social Media*, 14(1), 895-902. Retrieved from <https://www.aaai.org/ojs/index.php/ICWSM/article/view/7355>

Vito Walter Anelli, Amra Delić, Gabriele Sottocornola, **Jessie 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. <https://doi.org/10.1145/3383313.3411532>

Luca Belli, Sofia Ira Ktena, Alykhan Tjani, Alexandre Lun-Yut-Fon, Frank Portman, Xiao Zhu, Yuanpu Xie, Akshay Gupta, Michael Bronstein, Amra Delic, Gabriele Scottocornola, Walter Anelli Nazareno Andrade, **Jessie Smith**, Wenzhe Shi “Privacy-Preserving Recommender Systems Challenge on Twitter’s Home Timeline”. arXiv:2004.13715 [Cs], April. 2020. arXiv.org, <https://arxiv.org/abs/2004.13715>

Teaching Experience

- **(Guest Lecturer & Grader)** INFO 4601/5601: Information Ethics & Policy Fall 2021
- **(TA)** INFO 1111: Introduction to Information Science: Understanding the World Through Data Fall 2020
- **(Graduate Instructor)** INFO 1201: Computational Reasoning 1: Expression and Media Transformation Summer 2020
- **(TA)** INFO 2201: Computational Reasoning 2: Representations of Data Spring 2020
- **(TA)** INFO 1201: Computational Reasoning 1: Expression and Media Transformation Fall 2019

Academic / Service Positions

- **Graduate Student Association (GSA) President**, Information Science Department at CU Boulder Aug 2020 – Aug 2021
- **Academic Chair**, RecSys 2020 Challenge Sep 2019 – Sep 2020
- **Student Volunteer**, FAccT (FAT*) 2020 Jan 2020 – Feb 2020
- **Student Volunteer**, RecSys 2019 Aug 2019 – Sep 2019

Reviewing

- Big Data and Society, CSCW, CHI, IDC, RecSys (*PC Member*) 2021
- CSCW 2020

Invited Talks / Panels

- **Data Science Team Companion Course:** Algorithmic Fairness 101 February 2022
- **Hathaway Brown High School for Women in STEM:** Computer Science Ethics as a Career January 2022
- **Information Ethics and Policy Course:** AI Bias and Fairness 101 October 2021
- **NCWIT (Invited Webinar Speaker):** My Journey into CS Ethics and Why this Field is so Important July 2021
- **IEEE Standards Association (Invited Panelist):** Measurementality and How We Define Success in the Algorithmic Age February 2021
- **RecSys 2021 Challenge (Invited Moderator):** Privacy Preserving Recommendation on Twitter's Timeline November 2020

Public Scholarship on Technology Ethics

Jessie J. Smith and Dylan Doyle-Burke (April 2020 – Present). “The Radical AI Podcast.” radicalai.org, co-founders and co-hosts, *iTunes*, *Spotify*, *Google Play*, *iHeartRadio*.

Jessie J. Smith (September 2018 – Present). Medium. <https://medium.com/@jessiejsmith01>. *Publications in Towards Data Science, The Startup, HackerNoon, and others.*

Jessie J. Smith and Shamika Goddard (December 2019 – December 2021). SciFi in Real Life. YouTube. https://www.youtube.com/channel/UCwKt0KzYmRV_sZDysJsOVKg.

Other

Research expertise: qualitative methods, thematic analysis, community-based design, interviews, survey design, algorithmic auditing, participatory design workshops, quantitative methods, statistical inference, research ethics, machine learning algorithmic design, interpretivist research

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

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)