

Jeffrey W. Lockhart

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Academic Positions

- 2022– **James S. McDonnell Postdoctoral Fellow**, Sociology, University of Chicago.
- 2021–22 **Affiliate**, Women, Gender, and Sexuality, Harvard University.
- 2014 **Fellow**, *Data Science for Social Good*, University of Chicago.

Education

- 2022 **Ph.D. Sociology**, *University of Michigan*.
- 2017 **M.A. Sociology**, *University of Michigan*.
- 2015 **M.Phil. Multi-Disciplinary Gender Studies**, *University of Cambridge*.
 - Gates-Cambridge Scholar
- 2014 **M.S. Computer Science**, *Fordham University*.
- 2013 **B.S. Computer Science & Women's Studies**, *Fordham University*.

Publications

Journals

- Forthcoming **Lockhart, Jeffrey W.**, Agustín Fuentes, Gina Rippon, and Lise Eliot. “Not so binary or generalizable: Brain sex differences with artificial neural networks.” *Proceedings of the National Academy of Sciences* 0(0):0-0.
- 2024 **Lockhart, Jeffrey W.**, Molly M. King, and Christin Munsch. “Who Authors Social Science? Demographics and the Production of Knowledge.” *Social Currents* 0(0):0-0. (Further links: SI, Preprint)
- 2023 **Lockhart, Jeffrey W.** “Because the Machine Can Discriminate: How Machine Learning Serves and Transforms Biological Explanations of Human Difference.” *Big Data & Society* 10(1):1-14. (Further links: Preprint)
- 2023 **Lockhart, Jeffrey W.**, Molly M. King, and Christin Munsch. “Name-Based Demographic Inference and the Unequal Distribution of Misrecognition.” *Nature Human Behavior* 7(July):1084-95. (Further links: Open Access, Preprint)
- 2023 Lee, Katharine M.N., Tamara Rushovich, Annika Gompers, Marion Boulicault, Steven Worthington, **Jeffrey W. Lockhart**, and Sarah S. Richardson. “A Gender Hypothesis of sex disparities in adverse drug events.” *Social Science & Medicine* 339(December 2023):116385.
- 2023 Rushovich, Tamara*, Annika Gompers*, **Jeffrey W. Lockhart***, Sarah S. Richardson, Steve Worthington, Ife Omidiran, and Katharine M.N. Lee. (* denotes equal authorship) “Adverse drug events by sex after adjusting for baseline rates of drug use.” *JAMA Network Open* 6(8):e2329074.

- 2023 **Lockhart, Jeffrey W.** “The Gay Right: A Framework for Understanding Right Wing LGBT Organizations.” *Journal of Homosexuality* 70(13):3024-50. (Further links: Preprint)
- 2021 **Lockhart, Jeffrey W.** “Paradigms of Sex Research and Women’s Participation in STEM.” *Gender & Society* 35(3): 449-75. (Further links: Supplemental Materials, Preprint)
- 2020 Schwemmer, Carsten, Carly Knight, Emily Bello-Pardo, Stan Oklobdzija, Martijn Schoonvelde, and **Jeffrey Lockhart**. “Diagnosing Gender Bias in Image Recognition Systems.” *Socius* 6: 1-17. (Further links: Replication Materials)
- 2020 Azari, Abigail R., **Jeffrey W. Lockhart**, Michael W. Liemohn, and Xianzhe Jia. “Incorporating Physical Knowledge into Machine Learning for Planetary Space Physics.” *Frontiers in Astronomy and Space Sciences* 7(36): 1-14. (Further links: Preprint)

Book Chapters

- 2023 **Lockhart, Jeffrey W.** 2023. “Gender, Sex, and the Constraints of Machine Learning Methods.” Pp. xxx in the *Oxford Handbook of the Sociology of Machine Learning*. ed. Christian Borch and Juan Pablo Pardo-Guerra. Oxford: OUP. (Further links: Preprint)
- 2020 **Lockhart, Jeffrey W.** 2020. “‘A Large and Longstanding Body’: Historical Authority in the Science of Sex.” Pp. 359-386 in *Far-Right Revisionism and the End of History: Alt/Histories*. ed. Louie Dean Valencia-García. New York: Routledge. (Preprint)

Reviews

- 2024 **Lockhart, Jeffrey W.** 2024. Review: *A Kaleidoscope of Identities: Reflexivity, Routine, and the Fluidity of Sex, Gender, and Sexuality*, by James W. Messerschmidt and Tristan Bridges, Lanham, MD: Rowman & Littlefield. 2022. *Contemporary Sociology: A Journal of Reviews* 53(2): 156-58.

Peer-Reviewed Conference Papers (Computer Science)

- 2021 **Lockhart, Jeffrey W.** and Abigail Jacobs. 2021. “Scientific Argument with Supervised Learning.” In *Proceedings of the 2021 AI for Science Workshop at NeurIPS*.
- 2016 Weiss, Gary M., **Jeffrey W. Lockhart**, Tony T. Pulickal, Paul T. McHugh, Isaac H. Ronan, and Jessica L. Timko. 2016. “Actitracker: A Smartphone-based Activity Recognition System for Improving Health and Well-Being.” *Proceedings of the 3rd IEEE International Conference on Data Science and Advanced Analytics (DSAA)*: 682-688.
- 2014 **Lockhart, Jeffrey W.** and Gary M. Weiss. 2014. “The Benefits of Personalized Smartphone-Based Activity Recognition Models.” *Proceedings of the 2014 SIAM International Conference on Data Mining*: 614-622.
- 2014 **Lockhart, Jeffrey W.**, Gary M. Weiss. 2014. “Limitations with Activity Recognition Methodology & Data Sets.” *Pervasive and Ubiquitous Computing*: 747-756.
- 2013 Weiss, Gary M., Ashwin Nathan, J. B. Kropp, and **Jeffrey W. Lockhart**. 2013. “WagTag: A Dog Collar Accessory for Monitoring Canine Activity Levels.” *Pervasive and Ubiquitous Computing*: 405-414.
- 2012 **Lockhart, Jeffrey W.**, Tony T. Pulickal, and Gary M. Weiss. 2012. “Applications of Mobile Activity Recognition.” *Ubiquitous Computing*: 1,054-1,058.

- 2012 Weiss, Gary M. and **Jeffrey W. Lockhart**. 2012. "A Comparison of Alternative Client/server Architectures for Ubiquitous Mobile Sensor-Based Applications." *Ubiquitous Computing*: 721-724.
- 2012 Weiss, Gary M. and **Jeffrey W. Lockhart**. 2012. "The Impact of Personalization on Smartphone-Based Activity Recognition." *Proceedings of the Activity Context Representation Workshop at AAAI '12*: 98-104.
- 2011 **Lockhart, Jeffrey W.**, Gary M. Weiss, Jack C. Xue, Shaun T. Gallagher, Andrew B. Grosner, and Tony T. Pulickal. 2011. "Design Considerations for the WISDM Smart Phone-Based Sensor Mining Architecture." *Knowledge Discovery from Sensor Data at KDD*: 25-33.
- 2011 Weiss, Gary M. and **Jeffrey W. Lockhart**. 2011. "Identifying User Traits by Mining Smart Phone Accelerometer Data." *Knowledge Discovery from Sensor Data at KDD*: 61-69.

Work In Progress

- **Lockhart, Jeffrey W.** "Poststructuralist Machines and What It Means to Error"
- Biliotti, Carolina, James A. Evans, Massimo Riccaboni, and **Jeffrey W. Lockhart**. "Gender in the production and reception of surprising science."
- King, Molly M., **Jeffrey W. Lockhart**, and Christin Munsch. "What has theory wrought? An empirical investigation into the production and reception of 'mesearch'?"
- **Lockhart, Jeffrey W.**, Christin Munsch, Stone, Amy L., and Brandon Robinson. "The Complex Outcomes of Housing Changes and Insecurity for LGBTQ Youth: Results from the Family, Housing, and Me (FHAM) Project."
- **Lockhart, Jeffrey W.**, Jamshid Sourati, Feng Shi, and James Evans. "Global leadership in emerging science and technology."

External Grants and Scholarships

- 2024–25 **Santa Fe Institute**.
Authority of Ideas: Aesthetics of Biofilms and the Anthropocene, with Anna Clemencia Guerrero
- 2022–25 **James S. McDonnell Foundation Postdoctoral Fellowship**.
- 2018 **Russell Sage Foundation and Alfred P. Sloan Foundation**.
Project grant with Em Bello-Pardo, Carly Knight, Carsten Schwemmer, Iacopo Pozzana, Martin Schoonvelde, and Stan Oklobdzika.
- 2014–15 **Gates-Cambridge Scholarship**.
- 2014 **Eric & Wendy Schmidt Data Science for Social Good Summer Fellowship**.

Awards and Honors

- 2018 Graduate Student Mentor Award, University of Michigan, Department of Sociology.
- 2015 Elected Scholar, Jesus College Cambridge.
- 2013 Women's Studies Essay Award, Fordham University.
- 2013 Herbert W. Bomzer Award in Computer Science, Fordham University.

Talks

Invited Talks

- 2023 **Jeffrey Lockhart** “Machines Making Up People: Machine Learning and the (Re)production of Human Kinds” at ‘The Personal and the Computational’, *Dartmouth*, Hanover, NH.
- 2023 **Jeffrey Lockhart** Keynote: “Sex, gender, machine learning, and values in biological research.” *Sex, Gender, and Everything in Between conference*. New York, NY.
- 2023 **Jeffrey Lockhart** “Gender and AI.” *Santa Clara University*. Santa Clara, CA.
- 2021 **Jeffrey Lockhart** “Paradigms of Sex Research and Women in STEM.” *Northwestern University*. Chicago, IL.
- 2021 **Jeffrey Lockhart** “Paradigms of Sex Research and Women in STEM.” *Colorado University, Boulder*. Boulder, CO.
- 2015 **Jeff Lockhart**. 2015. “The Students Are Not All Right: LGBT+ Student Lives beyond the Happy Normal and the Suicidal Exception.” *University of Cambridge*. Cambridge, UK.

Invited Panels

- 2022 **Jeffrey Lockhart** “Intersectional Perspectives on Knowledge Production and Open Science.” *American Sociological Association (ASA)*. Los Angeles.
- 2021 **Lockhart, Jeffrey W.** “Fairness and ethical AI in healthcare.” *NeurIPS ML4Health workshop*.

Selected Conference Talks

- 2024 **Lockhart, Jeffrey W.** “What has Theory Wrought?” *American Sociological Association (ASA)*.
- 2024 **Lockhart, Jeffrey W.** “Gender in the production and reception of surprising science.” *International Conference on Science of Science and Innovation (ICSSI)*.
- 2023 **Lockhart, Jeffrey W.** “Who is a Sociologist?” *American Sociological Association (ASA)*.
- 2021 **Lockhart, Jeffrey W.** and Abigail Z. Jacobs. “Scientific Argument with Supervised Learning.” *NeurIPS 2021 AI for Science Workshop*.
- 2021 **Lockhart, Jeffrey W.** “Because the Machine Can Discriminate: Neuroimaging, Machine Learning, and Epistemologies of Sex.” *American Sociological Association (ASA)*. Online.
- 2020 **Lockhart, Jeffrey W.** “Paradigms of Sex Research and Women in STEM.” *American Sociological Association (ASA)*. Online.
- 2018 Schwemmer, Carsten, Emily Bello-Pardo, Carly Knight, Stan Oklobdzija, Iacopo Pozzana, Martijn Schoonvelde and **Jeff Lockhart**. “The Politics of Social Media Images: Potentials and Biases of Image Recognition Algorithms for Studying Congressional Behavior.” *European Symposium on Societal Challenges in Computational Social Science: Discrimination and Bias*. Cologne.
- 2018 **Lockhart, Jeffrey W.** “After Assimilation: Gay Right Wing Politics and Social Class in the ‘Beacon of LGBT Rights’.” *ASA Sexualities Preconference*. Philadelphia.

Teaching Experience

Graduate Student Instructor

2021 Computational Social Science, University of Michigan.

Curriculum Design

2017-20 Undergraduate and graduate computational social science course with hands-on python labs, University of Michigan.

2017-19 UM Data Camp, University of Michigan.

2017-18 Data Science with Social Data workshops, University of Michigan Consulting for Statistics, Computing & Analytics Research.

Short Courses & Workshops

2023 Instructor, Social Science Bootcamp for Materials Scientists, University of Chicago.

2017-19 Instructor, UM Data Camp, University of Michigan.

2017 Teaching Assistant, Complex Systems Modeling for Public Health Research, University of Michigan.

Mentoring Student Research

2024 Summer Institute in Social Research Methods faculty mentor (2 undergraduate students)

2022-23 Masters thesis mentor, University of Chicago

2019-20, Undergraduate Research Opportunity Program (mentor for eight students), University of Michigan

2015-16 Sociology honors thesis mentor, University of Michigan

Selected Guest Teaching

2019 “Gender Inequality” in Soc/AmCult 221: Unequal America: Understanding Social Inequality, University of Michigan.

2017 “Introduction to Text Analysis” in CmplxSys/Soc 260: Social Dynamics, University of Michigan.

2014 “Methodology and Ethics with Sensitive Topics” in Ethics in Research, Fordham University.

2014 “Asking the Right Questions of Data” in Data Mining, Fordham University.

2014 “Queer Theory and Feminist Philosophy” in Feminist Theories in Intercultural Perspective, Fordham University.

Selected Professional Service Activities

Reviews for American Journal of Sociology; American Sociological Review; Sociological Methodology; Socius; Nature Human Behavior; Science Advances; Men and Masculinities; Journal of Homosexuality; Du Bois Review; Big Data & Society; Machine Learning; EPJ Data Science; NERCCS; Machine Learning with Applications; Int’l Conference on Pervasive Computing Technologies for Healthcare; Cogent Education; NPJ Complexity.

2018-21 **Chair**, LGBTQ Caucus, ASA.

Term divided into chair-elect, chair, and past-chair.

2017-21 **Website Administrator**, Sexualities Section, ASA.

2016, 19 **Application Reviews**, *Data Science for Social Good (DSSG) Fellowship*.

2015-17 **Chair**, Student Research & Survey Subcommittee, Sociologists for Women in Society (SWS).