

EMANUEL MOSS, PhD.

Senior Research Scientist – Computing and AI / Intel Labs / Charlottesville, VA



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APPOINTMENTS

Senior Research Scientist – Intelligent Systems Research, Intel Labs, 2022-present

Joint Postdoctoral Research Fellow, Digital Life Initiative at Cornell Tech and Data & Society Research Institute, 2021-2022

Researcher, Data & Society Research Institute, 2018-2021

EDUCATION

CUNY Graduate Center – PhD., Anthropology

Dissertation: “The Objective Function: Science and Society in the Age of Machine Intelligence”.

Committee: Karen Strassler, PhD. (chair), Dana-Ain Davis, PhD., Mandana Limbert, PhD., danah boyd, PhD.

Brandeis University – M.A., Global Studies

Thesis: “Monumental Identities: Nationalism, Globalization and the Monumentalization of Heritage”

Advisor: Chandler Rosenberger, PhD.

University of Illinois at Urbana-Champaign – B.A., Anthropology

ADDITIONAL POSITIONS HELD

- 2025 – Adjunct Lecturer, University of Virginia School of Data Science
- 2025 – Computing Community Consortium (CCC) Council Member
- 2024 – Expert Working Group Member, NIST AI Safety Institute Consortium
- 2023 – 2024 Member, Global Task Force for Inclusive AI, Partnership on AI
- 2022 – 2024 Member, Expert Group on Responsible AI Management, Program on Data and Governance at Ohio State University Moritz School of Law
- 2019 – 2021 Expert Consultant, Ethical Resolve LLC
- 2016 – 2021 Research Analyst and Researcher, Data & Society (Partnership on AI, PERVADE)
- 2017 – 2018 Applied Data Science Writing Fellow at Cloudera Fast Forward Labs
- 2015 – 2017 Art Editor, Journal of Field Archaeology
- 2014 – 2017 Teaching Fellow, Baruch College (CUNY), Department of Sociology and Anthropology
- 2013 – 2016 Spatial Data and Digital Technologies Specialist, Gygia Projects, Boston University

FELLOWSHIPS and AWARDS

2023	Research Grant, ND/IBM Data Ethics Lab
2022	Research Fellowship, Siegel Family Endowment (declined)
2018	Dissertation Fieldwork Grant, Wenner Gren Foundation
2016	Early Research Initiative Pre-Dissertation Fellowship, CUNY Graduate Center
2015	Advanced Research Collaborative Student Fellow, CUNY Graduate Center
2014	Graduate Student Paper Prize Finalist, Society for the Anthropology of Europe
2013 – 2015	Graduate Center Fellowship, CUNY Graduate Center
2012	Global Studies Travel Grant, Brandeis University
2011 – 2012	Graduate Fellowship, Brandeis University
2011	Center for German and European Studies Travel Grant, Brandeis University

PUBLICATIONS and OTHER WRITING

* - peer reviewed or juried submission

*Manuvinakurike, R., Savur, C., **Moss, E.**, Watkins, E. A., Sahay, S., & Raffa, G. (2025). Automatic Agent Chaining for Multimodal Task Support. Accepted to *NeurIPS 2025 LLM Evaluation Workshop*.
<https://openreview.net/forum?id=lqge0ANOOa>.

*Watkins, E., **Moss, E.**, Manuvinakurike, R., Persaud, C., Raffa, G., & Nachman, L. (2025). “It Doesn’t Know Anything about My Work”: Participatory Benchmarking and AI Evaluation in Applied Settings. Accepted to *NeurIPS 2025 LLM Evaluation Workshop*.
<https://openreview.net/forum?id=lqge0ANOOa>.

Moss, E., Watkins, E., Persaud, C., Karunaratne, P., & Nafus, D. (2025). Controlling Context: Generative AI at Work in Integrated Circuit Design and Other High-Precision Domains. *arXiv preprint arXiv:2506.14567*.

Manuvinakurike, R., **Moss, E.**, Watkins, E. A., Sahay, S., Raffa, G., & Nachman, L. (2025). Thoughts without Thinking: Reconsidering the Explanatory Value of Chain-of-Thought Reasoning in LLMs through Agentic Pipelines. Presented at ACM CHI Workshop on Human-Centered Explainable AI. *arXiv preprint arXiv:2505.00875*.

*Sloane, M., **Moss, E.**, Kennedy, S., Stewart, M., Warden, P., Plancher, B., Reddi, V.J. 2025. Materiality and Risk in the Age of Pervasive AI Sensors. *Nature Machine Intelligence*. Vol. 7 pp. 334-345.
<https://www.nature.com/articles/s42256-025-01017-7>.

Watkins, E. A., **Moss, E.**, Raffa, G., & Nachman, L. (2025). What's So Human about Human-AI Collaboration, Anyway? Generative AI and Human-Computer Interaction. *arXiv preprint arXiv:2503.05926*.

*Sloane, M., Danks, D., & **Moss, E.** (2024). Tackling AI Hying. *AI and Ethics*, 4(3), 669-677.

*Harvey, E., Sandhaus, H., Jacobs, A.Z., **Moss, E.**, and Sloane, M.. 2024. The Cadaver in the Machine: The Social Practices of Measurement and Validation in Motion Capture Technology. In *Proceedings of*

- the CHI Conference on Human Factors in Computing Systems (CHI '24)*. Association for Computing Machinery, New York, NY, USA, Article 768, 1–23. <https://doi.org/10.1145/3613904.3642004>.
- Moss, E.** 2023. Ethnographic Thinking: Anthropology as Product and Prescription. *American Ethnologist* 55(1) pp. 171-173. <https://anthrosource.onlinelibrary.wiley.com/doi/abs/10.1111/amet.13230>.
- *Metcalf, J. Singh, R., **Moss, M.**, Tafesse, E., and Watkins, E.A. 2023. Taking Algorithms to Courts: A Relational Approach to Algorithmic Accountability. In *Proceedings of the 2023 ACM Conference on Fairness, Accountability, and Transparency (FAccT '23)*. Association for Computing Machinery, New York, NY, USA, 1450–1462. <https://doi.org/10.1145/3593013.3594092>
- Moss, E.** (2023). “Trust Is Not Enough: Accuracy, Error, Randomness, and Accountability in an Algorithmic Society.” *ACM Communications* 66(6), pp. 42-44.
- *Sloane, M., **Moss, E.**, Awomolo, O., Forlano, L. (2022). “Participation Is not a Design Fix for Machine Learning.” In *Proceedings of the ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO'22)*. Association of Computing Machines. Washington, DC.
- Sloane, M., **Moss, E.** (2022). “Introducing a Practice-Based Compliance Framework (PCF) for Addressing New Regulatory Challenges in the AI Field.” *TechREG Chronicle*, March. <https://www.competitionpolicyinternational.com/introducing-a-practice-based-compliance-framework-pcf-for-addressing-new-regulatory-challenges-in-the-ai-field/>.
- Metcalf, J., **Moss, E.**, Singh, R., Tafese, E., Watkins, E. (2022). “A relationship and not a thing: A relational approach to algorithmic accountability and assessment documentation.” *ArXiv:2203.01455 [Cs]*, March. <http://arxiv.org/abs/2203.01455>.
- *Cooper, A.F., Laufer, B., **Moss, E.**, Nissenbaum, H. (2022). “Accountability in an Algorithmic Society: Relationality, Responsibility, and Robustness in Machine Learning.” In *2022 ACM Conference on Fairness, Accountability, and Transparency in Computer Science*. Association of Computing Machines. Seoul, South Korea. <https://dl.acm.org/doi/fullHtml/10.1145/3531146.3533150>
- *Sloane, M., **Moss, E.**, Chowdhury, R. (2022). “A Silicon Valley love triangle: Hiring algorithms, pseudo-science, and the quest for auditability.” *Patterns*, 3(2). [https://www.cell.com/patterns/fulltext/S2666-3899\(21\)00308-1](https://www.cell.com/patterns/fulltext/S2666-3899(21)00308-1).
- Metcalf, J., Smith, B., **Moss, E.** (2022). “A New Proposed Law Could Actually Hold Big Tech Accountable for Its Algorithms.” *Slate Future Tense*. <https://slate.com/technology/2022/02/algorithmic-accountability-act-wyden.html>.
- *Ganesh, M.I., **Moss, E.** (2022). “Resistance and refusal to algorithmic harms: Varieties of ‘knowledge projects’.” *Media International Australia*, 182(2). <http://journals.sagepub.com/doi/10.1177/1329878X221076288>.
- Fannuci, F., Wisniak, M., Skoric, V., Smith, B., Oduro, S., Metcalf, J., **Moss, E.**, and Tafese, E. (2021). “Recommendations for Assessing AI Impacts to Human Rights, Democracy, and the Rule of Law.” European Center for Non-profit Law. <https://ecnl.org/publications/recommendations-incorporating-human-rights-ai-impact-assessments>.

- *Shilton, K., **Moss, E.**, Gilbert, S. A., Bietz, M. J., Fiesler, C., Metcalf, J., Vitak, J., & Zimmer, M. (2021). Excavating awareness and power in data science: A manifesto for trustworthy pervasive data research. *Big Data & Society*, 8(2). <https://doi.org/10.1177/20539517211040759>.
- Moss, E.**, Watkins, E.A., Singh, R., Metcalf, J. 2021. *Assembling Accountability: Algorithmic Impact Assessment for the Public Interest*. Data & Society Research Institute Report. <https://datasociety.net/library/assembling-accountability-algorithmic-impact-assessment-for-the-public-interest/>.
- *Watkins, E.A., **Moss, E.**, Metcalf, J., Singh, R., Elish, M.C. 2021. "Governing Algorithmic Systems with Impact Assessments: Six Observations." In *Proceedings of the 2021 AAAI Conference on AI, Ethics, & Society (AIES2021)*. https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3846300.
- Sloane, M., **Moss, E.**, Chowdhury, R. 2021. "A Silicon Valley Love Triangle: Hiring Algorithms, Pseudo-Science, and the Quest for Auditability." In CHI '21: ACM CHI Virtual Conference on Human Factors in Computing Systems, May 8-13, 2021, Yokohama, JN. ACM, New York, NY, USA.
- *Metcalf, J., **Moss, E.**, Watkins, E.A., Singh, R., Elish, M.C. 2021. "Algorithmic Impact Assessments and Accountability: The Co-construction of Impacts". In *FACCT '21: Proceedings of the 2021 ACM Conference on Fairness, Accountability, and Transparency*. pp. 735-746. Toronto, ON. <https://doi.org/10.1145/3442188.3445935>.
- Moss, E.** 2021. Review of "Technologies of Speculation: The Limits of Knowledge in a Data-Driven Society," *Journal of Cultural Economy*, 14(3). <https://doi.org/10.1080/17530350.2021.1882539>.
- ***Moss, E.** and Metcalf, J. 2020. "High Tech, High Risk: Tech Ethics Lessons for the COVID-19 Pandemic Response". *Patterns*, 1(7). [https://www.cell.com/patterns/fulltext/S2666-3899\(20\)30136-7](https://www.cell.com/patterns/fulltext/S2666-3899(20)30136-7).
- Metcalf, J. and **Moss, E.** 2020. "[Looking for Race in Tech Company Ethics](#)". Data & Society Points Blog.
- Sloane, M. **Moss, E.**, Awomolo, O., and Forlano, L. 2020. "Participation is not a Design Fix for Machine Learning". Participatory Approaches to Machine Learning Workshop of the 37th International Conference of Machine Learning. Vienna, Austria.
- Moss, E.** and Metcalf, J. 2020. *Ethics Owners: A New Model of Organizational Responsibility in Data-Driven Technology Companies*. Data & Society Research Institute Report. <https://datasociety.net/pubs/Ethics-Owners.pdf>.
- Moss, E.** and Metcalf, J. 2019. [The Ethical Dilemma at the Heart of Big Tech Companies](#). *Harvard Business Review*, 14 November 2019.
- Kroll, J. and **Moss, E.** 2019. *Conceptions, Definitions, and Practices of Fair, Transparent, and Accountable (FTA) AI*. Partnership for AI. Whitepaper. (forthcoming)
- *Sloane, M. and **Moss, E.** 2019. AI's Social (Science) Deficit Has Consequences. *Nature Machine Intelligence*, 1(8).
- *Metcalf, J., **Moss, E.**, boyd, d. 2019. Owning Ethics: Corporate Logics, Silicon Valley, and the Institutionalization of Ethics. *Social Research*, 86(2).

***Moss, E.** and Schuur, F. 2018. How Modes of Myth-Making Affect the Particulars of DS/ML Adoption in Industry. Proceedings of the *Ethnographic Praxis in Industry Conference 2018*. Honolulu, HI.

Fast Forward Labs. 2018. *Multi-Task Learning*. Research Report FF08. (Ch. 6 – Ethics)

Fast Forward Labs. 2017. *Interpretability*. Research Report FF07. (Ch. 6 – Ethics)

*Roosevelt, C.H., Cobb, P., **Moss, E.** Olsen, B.R., Ulusoy, S. 2015. Excavation is ~~Destruction~~ Digitization: Advances in Archaeological Practice. *Journal of Field Archaeology*, 40(3).

TEACHING EXPERIENCE

INSTRUCTOR

- | | |
|-------------|---|
| 2025 | University of Virginia
Data Ethics and Policy (DS 2004) |
| 2022 | Cornell Tech
Values at Play (TECH 5010) |
| 2021 | University of California-Berkeley
Behind the Data: Humans and Values (MIDS w231) |
| 2014 – 2017 | Baruch College
Introduction to Anthropology (ANT 1001) |

TEACHING ASSISTANT

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| 2013 | Massachusetts Institute of Technology
Anthropology 21A.00: Introduction to Anthropology (with Prof. Graham Jones) |
| 2011 – 2012 | Brandeis University
Anthropology 1A: Introduction to the Comparative Study of Human Society
(with Prof. Sarah Lamb, Prof. Jonathan Anjaria)
International and Global Studies 10A: Introduction to International and Global Studies
(with Prof. Kerry Chase) |

GUEST LECTURER

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| 2022 | Cambridge University – Guest speaker on AI Ethics and Society |
| 2021 | Cold Spring Harbor Laboratory – Invited Lecture on AI Ethics |
| 2021 | NYU Center for Urban Science and Progress – Capstone Lecture on Data Research Ethics |
| 2021 | NYU AI & Society – Lecture on Ethics in Industry |

PRESENTATIONS, CONFERENCE ACTIVITIES and INTERVIEWS

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| 2022 | “Trustworthiness in Social Data Science: Excavating Awareness and Power”. Invited presentation to the UW Data Science Seminar (co-presented with Katie Shilton). University of Maryland Social Data Symposium. February 9, 2022. |
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- 2021 “Engaging the Ethics of Public Data’ in Social Media Research” Tutorial. (co-presented with Casey Fiesler, Katie Shilton, Michael Zimmer, and Katharina Kinder-Kurlanda). ICWSM 2021.
- 2021 [“So You Want to Be a Tech Ethicist \(No Scrubs edition\)”](#) (co-presented with Jacob Metcalf). MozFest 2021.
- 2020 “Corporate Logics of Silicon Valley and the Institutionalization of Ethics” (co-presented with Jacob Metcalf). Invited talk at 2020 American Sociological Association Annual Meeting. San Francisco, CA.
- 2020 NPR Marketplace Tech: [“Tech companies should make it someone’s job to think about ethics”](#). Aired on July 6, 2020.
- 2020 Stanford Institute for Human-Centered Artificial Intelligence (HAI) Weekly Seminar: [“Owning Ethics: Organizational Responsibility and the Institutionalization of Ethics in Silicon Valley”](#) (co-presented with Jacob Metcalf). Palo Alto, CA [webcast].
- 2020 Discussant for Data & Society Workshop: [Contested Data](#). New York City, NY.
- 2020 [“Positionality-Aware Machine Learning: Translation Tutorial”](#) (co-presenter). 2020 ACM Conference on Fairness, Accountability, and Transparency (ACM FAT*). Barcelona, ES.
- 2019 “Minding the Gap: Between Fairness and Ethics” Workshop (co-organizer and moderator). 2019 NeurIPS Conference. Vancouver, BC.
- 2019 [“Tutorial: Ethics in Data-Driven Industries”](#) (co-presented with Friederike Schüür). 2019 Ethnographic Praxis in Industry Conference. Providence, RI.
- 2019 “Lightning Talk: Ethical AI Starts with the Data” (co-presented with Michael Zimmer). [Good Systems: Ethical AI for CSCW Workshop](#). 22nd ACM Conference on Computer-Supported Cooperative Work and Social Computing. Austin, TX.
- 2019 “Assessing Algorithmic Impacts” (co-presented with Jacob Metcalf) at REAL ML: Research, Engagement, Advocacy and Lived Experiences with Machine Learning Systems Workshop. Berlin, DE.
- 2019 “Becoming FAT: The Formation of Algorithmic Fairness, Accountability, and Transparency”. Annual Meeting of the Society for the Social Studies of Science. New Orleans, LA.
- 2019 [STS Summer School: Expertise, Trust, and Democracy](#). Harvard University. Cambridge, MA.
- 2019 Discussant for Data & Society Workshop: [Lessons from the Field](#). New York City, NY.
- 2019 “Owning Ethics: Doing ethics inside a tech company” (co-presented with Jacob Metcalf). [Strata Data Ethics Summit](#). San Francisco, CA.
- 2019 “Tutorial: Toward a Theory of Race for Fairness in Machine Learning,” 2019 FAT* Conference. Atlanta, GA. [[webcast](#)]
- 2018 “Deep Learning and Shallow Play: New Essentialisms in the Machine Age” (coauthored with Lily Hu). Annual Meeting of the American Anthropological Association. San Jose, CA.

- 2018 [“How Modes of Myth-Making Affect the Particulars of DS/ML Adoption in Industry”](#)
(coauthored with Friederike Schüür) 2018 Ethnographic Praxis in Industry Conference.
Honolulu, HI.
- 2018 [Computational Social Science Summer School](#). University of Southern California. Los
Angeles, CA
- 2018 [Technology, Law & Society Summer Institute](#). University of California. Irvine, CA.
- 2018 “Digital Technology, Digital Practices: Incorporating Digital Techniques into Archaeological
Excavation and Interpretation”. Annual Meeting of the Society for American Archaeology.
Washington, DC.
- 2018 “Addressing Conceptual Gaps in Big Data Research Ethics,” PRISMA Ethics & Innovation
Conference, Warwick University, UK.
- 2017 Discussant for Data & Society Workshop: Lessons from the Field. New York City, NY.
- 2017 “Personal Information as Private Property: Proprietary Datasets in the Information Age,”
American Ethnological Society Annual Meeting. Stanford University. Palo Alto, CA.
- 2015 “Thick Traces: Three-Dimensional Modeling in Archaeology,” Annual Meeting of the Society
for Social Studies of Science. Denver, CO.
- 2015 “Digital Imaging and Spatial Analysis in Archaeology: Problems and Prospects,” (coauthored
with Brandon Olsen). Mobilizing the Past for a Digital Future Workshop, Wentworth
Institute of Technology. Boston, MA.

ACADEMIC SERVICE

PEER REVIEW

- 2024 Papers Committee Member for Ethnographic Praxis in Industry Conference (EPIC)
- 2024 Area Chair for ACM FAccT Conference
- 2022 – 2023 Program Committee member for ACM FAccT Conference
- 2021 – 2022 Reviewer for ACM CHI Conference.
- 2021 Area Chair for NeurIPS 2021: Datasets and Benchmarks Track
- 2020 Reviewer for *ACM Communications*
- 2020 – 2021 Reviewer for *Patterns Journal*
- 2020 Reviewer for Manning Publications
- 2020 Reviewer for *Frontiers in Big Data*
- 2019 Reviewer for *Journal of the Association for Information Science and Technology*
- 2019 Reviewer for *Engaging Science, Technology, and Society*
- 2019 Reviewer for Designing Interactive Systems (DIS) Conference
- 2015 – 2016 Reviewer for *Journal of Field Archaeology*

INFORMAL CONSULTATION

- Ada Lovelace Research Institute

- Responsible Innovation Team – Facebook
- Queer in AI – Bias bounties initiative
- AI Ethics Team – Google Research
- ACM US Technology Policy Council
- The Office of Senator Amy Klobuchar
- National Institute of Standards and Technology (NIST) – Identifying and Managing Bias in Artificial Intelligence ([NIST Special Publication 1270](#))
- IEEE P3119 Working Group