

GREG LUSK

Assistant Professor

Lyman Briggs College and the Department of Philosophy | Michigan State University
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ACADEMIC APPOINTMENTS AND AFFILIATIONS

- 2018- Assistant Professor (Tenure Track), Lyman Briggs College and the Department of Philosophy, Michigan State University
- 2015-2018 Postdoctoral Scholar, Department of Philosophy, University of Chicago
Project: “The Ethical Implications of Number Construction in Climate Change”

Research Affiliations

- 2020- Associate Member, Center for Humanities Engaging Science and Society (CHESS), Durham University, UK
- 2017-2019 Project Team Member, Knowledge for Use Project (Funded by a European Research Council Horizon 2020 Grant)

Recent Visiting Appointment

- 2021 Visiting Scholar, Computational and Information Systems Laboratory (CISL), National Center for Atmospheric Research (Summer, postponed from 2020)
- 2020 Visiting Scholar, Department of History and Philosophy of Science, Indiana University – Bloomington (Spring Semester)
- 2019 Visiting Scholar, Computational and Information Systems Laboratory (CISL), National Center for Atmospheric Research (Summer)
- 2018 Fellow, University of California Humanities Research Institute, University of California Irvine (Spring Quarter)
- 2017 Visiting Scholar, Centre for Humanities Engaging Science and Society, Department of Philosophy, Durham University

EDUCATION

- PhD Institute for History and Philosophy of Science and Technology, University of Toronto (2015)
Dissertation Title: “Quantifying Nature: Epistemology for Climate Science”
- MA Department of Philosophy, Ohio University (2009)
- BA (Hon) Philosophy, Colby College (2006)

RESEARCH AREAS

AOS: Climate and environmental science; science and society; measurement and computer simulation; data science

AOC: Environmental philosophy; epistemology; logic; history of science

PUBLICATIONS

Articles and Chapters

- Forthcoming with Lisa Lloyd, Stu Gluck, and Seth McGinnis. “Varieties of Data-Centric Science: Regional Climate Modeling and Model Organism Research” *Philosophy of Science*
- Forthcoming “Saving the Data.” *The British Journal for the Philosophy of Science*
<https://doi.org/10.1093/bjps/axy072>
- Forthcoming “Aligning Social Goals and Scientific Numbers” in *Limits of the Numerical: Perspectives from Humanities and Social Sciences* (eds. Anna Alexandrova, Stephen John, and Chris Newfield), University of Chicago Press
- Forthcoming “Looking Forward and Backward at Extreme Event Attribution in Climate Policy.” *Ethics, Policy, & Environment*
- 2020 “Political Legitimacy in the Democratic View: The Case of Climate Services.” *Philosophy of Science* 87 (5): 991-1002 <https://doi-org.proxy1.cl.msu.edu/10.1086/710803>
- 2020 with David Archer and Edwin Kite. “The Ultimate Cost of Carbon.” *Climatic Change* 162: 2069–2086 <https://doi.org/10.1007/s10584-020-02785-4>
- 2020 “Should individual extreme events be attributed to human agency?” in *Contemporary Climate Change Debates*, Mike Hulme (ed.), Routledge.
- 2019 with Wendy S. Parker. “Incorporating User Values into Climate Services.” *Bulletin of the American Meteorological Society* 100 (9):1643-1650
<https://doi.org/10.1175/BAMS-D-17-0325.1>
- 2017 “The Social Utility of Event Attribution: Liability, Adaptation, and Justice-Based Loss and Damage.” *Climatic Change* 143 (1-2):201-212.
<https://doi.org/10.1007/s10584-017-1967-3>
- 2016 “Computer Simulation and the Features of Novel Empirical Data.” *Studies in History and Philosophy of Science Part A* 56:145-152. <https://doi-org.proxy1.cl.msu.edu/10.1016/j.shpsa.2015.10.005>

Book Reviews

- 2019 “*Philosophy and Climate Science*, by Eric Winsberg.” *The British Journal for the Philosophy of Science* Review of Books
- 2016 “*The Ecological Footprint*, by Andrea Collins and Andrew Flynn.” *Science and Public Policy* 43 (5):225-727.
- 2014 “*A Vast Machine*, by Paul N. Edwards.” *Annals of Science* 71 (2):295-298

Public Philosophy

- 2010-2014 *The Bubble Chamber Blog* (Organizer and regular contributor)

FELLOWSHIPS, GRANTS, AND AWARDS

Fellowships and Grants

- 2018-2021 Co-Principal Investigator (with Elisabeth Lloyd) “A Methodological Study of Big Data and Atmospheric Science” National Science Foundation award #SBE-1754740 (total award: \$500,783)
- 2018 “The Science and Values of Expert Elicitation” European Commission, Marie Skłodowska-Curie Actions, Junior Research Fellowship to be held at Durham University Institute of Advanced Studies and The Institute of Hazard, Risk and Resilience (~\$75,000 USD) [Declined]
- 2018 Society of Fellows, University of Michigan (Postdoctoral Award \$142,775) [Declined]
- 2015-2018 Postdoctoral Scholarship for “The Ethical Implications of Number Construction in Climate Change” (\$168,000; a subproject of the A.W. Mellon project “Climate Change: The Limits of the Numerical,” PI: Dipesh Chakrabarty and James Chandler)
- 2014-2015 Massey College Junior Fellowship
- 2009-2014 University of Toronto Fellowship (\$125,000)
- 2008 Institute for Applied Ethics Summer Research Grant, “Obligations and Future Generations” Ohio University (\$5,000)
- 2007-2009 Ohio Graduate Scholarship, Ohio University (\$26,000)

Interdisciplinary Research Funding

- 2017-2018 Neubauer Collegium for Culture and Society Research Award (co-recipient, \$25,000)
- 2013-2014 Jackman Humanities Working Group Grant for “Climate in the Humanities, Sciences, and Society,” University of Toronto (\$3,000)

Awards and Prizes

- 2020 Nominated: Teacher-Scholar Award, Michigan State University (Award is the highest honor that can be bestowed upon an assistant professor; results announced spring 2021)
- 2020 #IteachMSU Award for Influential Teaching, Michigan State University
- 2019 #IteachMSU Award for Influential Teaching, Michigan State University
- 2018 Philosophy of Science Association Women's Caucus Symposium Prize for “Climate Science and Public Interests: Social Values and Climate Change” (Co-organizer and presenting author; prize is awarded every two years to a symposium that focuses topics of interest to the Women’s Caucus and highlights the work of women in philosophy of science)
- 2014-2015 University of Toronto Doctoral Completion Award (\$13,700)
- 2009 Colburn Graduate Admissions Award, University of Toronto (\$3,500)

2008 Mary Spetnagel Award for Outstanding Achievement in Philosophy, Ohio University (\$3,000)

2008 Professors' Achievement Award, Ohio University

TEACHING EXPERIENCE

Michigan State University, Assistant Professor

Lyman Briggs College

Science and the Public (LB321A – Spring 2019 x2, Spring 2021 x2)

Senior Seminar (LB492 – Fall 2020)

Introduction to History, Philosophy, and Sociology of Science (LB133 - Fall 2018, Fall 2019 x2)

Department of Philosophy

Introduction to Critical Thinking [Honors] (PHL130 – Fall 2018, Fall 2020)

Colby College, Co-Instructor

Biology and Society (January 2017)

Views of a Changing Planet: History and Philosophy of the Environment (January 2015)

<https://changingplanetcourse.wordpress.com/>

University of Toronto, Sole Instructor

Scientific Revolutions II (Summer 2014)

Ohio University, Sole Instructor

Introduction to Logic (Fall 2007, Winter 2008, Spring 2008, Fall 2008, Winter 2009, Spring 2009)

University of Toronto, Teaching Assistant

Introduction to History and Philosophy of Science (Winter 2013)

Introduction to Philosophy of Science (Fall 2012)

Scientific Revolutions I (Summer 2011)

History and Philosophy of Science Writing Center (2010-2011)

PhD STUDENTS AND POSTDOCS

Suzanne Kawamleh (PhD Advisory Committee Member)

Stu Gluck (Post-doc Co-Supervisor)

CONFERENCES AND PRESENTATIONS

Invited Presentations

2021 Conference on Climate Change and Studies of the Future (*Jornadas sobre Cambio climático y estudios de futuro*), University of A Coruña, Coruña Spain, Scheduled October 30

2020 Seminar Series on Integrating Science and Ethics in Climate Risk Management, Penn State, State College PA, November 12

2020 Seminar Series on Philosophy of Climate Science, Oeschger Center for Climate Change Research, University of Bern, Switzerland

2020 “Too Legit to Quit: A Deliberative Account of Values in Science” Doing Science in a Pluralistic Society, University of Dayton’s Baker Colloquium, Dayton OH, April 2020

- 2020 Workshop on Scientifically Engaged HPS, Indiana University-Bloomington, April 4 (Cancelled due to COVID)
- 2020 Forum on Philosophy of Science, Department of History and Philosophy of Science and Medicine, Indiana University-Bloomington, March 12
- 2020 “From Data to Democracy,” Colloquium Series, University of Washington Department of Philosophy, Seattle WA, February 14
- 2019 “It’s the Journey: Data Centricism in Climate Science,” National Center for Atmospheric Research, Mesa Lab, Boulder CO, July 30
- 2018 “Reflections on the Limits of the Numerical: Climate Change,” Measurement and Power: Perspectives on ‘The Limits of the Numerical’, Centre for Research in the Arts, Social Sciences, and Humanities, The University of Cambridge, Cambridge UK, July 18
- 2018 "Remote Sensing and the Data/Phenomena Distinction," Philosophy of Science Conference, Dubrovnik Croatia, April 16-20
- 2018 “Reasonable Doubt: Deliberation, Unreliable Experts, and the Problem of Public Ignorance,” Questioning Science in Uncertain Times, The Ohio State University, Columbus OH, February 15
- 2017 “Climate Change: Who can we blame for extreme weather?” Washington State University, Thomas S. Foley Institute for Public Policy and Public Service, Pullman WA, September 26
- 2017 “Are We to Blame? An assessment of extreme weather attribution,” Colby College, STS Colloquium, Waterville ME, January 18
- 2016 “Who Should We Blame? The Merits of Extreme Weather Event Attribution,” Climate Change: Disciplinary Challenges Symposium, Neubauer Collegium, University of Chicago, Chicago IL, June 3
- 2016 “Interrogating Science: Philosophy and Extreme Weather Event Attribution,” Midwestern Faculty Seminar on Environmental Humanities, University of Chicago, Chicago IL, April 7-9
- 2015 “Saving the Data: The Construction of Atmospheric Phenomena in Climate Science,” STS Colloquium, Colby College, Waterville ME, January 27

Refereed Conference Presentations

- 2021 “A Defense of the Representational Account of Data” Philosophy of Science Association Bi-Annual Meeting, Baltimore MD, November (Delayed until 2021)
- 2020 “Risks of Automated Data Discovery: Recommendations for Data Stewardship in Data-Centric Climate Science” American Geophysical Union Fall Meeting, December 17 (Lusk was non-presenting co-author)
- 2020 “It’s the Journey: Data Centricism in Climate Science” Canadian Society for the History and Philosophy of Science Annual Meeting, University of Western Ontario,

- Vancouver, May 30-June 1 (Paper was accepted but conference canceled due to COVID)
- 2020 “Whose values? User Values!” Values in Medicine, Science, and Technology Annual Conference, The Center for Values in Medicine, Science, and Technology, Richardson TX, May 28-31 (Paper was accepted but conference canceled due to COVID, may be rescheduled for 2021)
- 2019 “Taking Values Seriously: Climate Services and Inductive Risk” Canadian Society for the History and Philosophy of Science Annual Meeting, University of British Columbia, Vancouver, June 1-3
- 2018 “Making Climate Data Useful: The Role of Values in Climate Services,” Philosophy of Science Society Biennial Meeting, Seattle, November 1-4
- 2018 “Data and Phenomena: Two Challenges from the Epistemology of Measurement” Canadian Society for the History and Philosophy of Science Annual Meeting, University of Regina, May 26-28
- 2018 “The Decision-Relevancy of Climate Model Results: Idle Arguments or Idle Dreams?” Models and Simulations 8, University of South Carolina, Columbia SC, March 15-17
- 2017 “Structural Model Error and Decision Relevancy” American Geophysical Union: Fall Meeting, New Orleans, LA, December 11-15 (presented by co-author Michael Goldsby)
- 2016 “Are We To Blame? An Epistemic Assessment of Extreme Weather Event Attribution,” Philosophy of Science Association, Atlanta GA, November 3-5
- 2016 “Can we blame the weather? The emergence of extreme weather attribution technology,” Society for the History of Technology, Singapore, June 22-26
- 2015 “How to Reason from Data to Phenomena,” Canadian Society for the History and Philosophy of Science, University of Ottawa, Ottawa ON, May 30-June 1
- 2014 “Can simulations produce empirical knowledge?” Models and Simulations 6, University of Notre Dame, South Bend IN, May 9-11
- 2014 “Inverse strategies in measurement,” Canadian Society for the History and Philosophy of Science, Brock University, St. Catharines ON, May 24-26
- 2013 “Observation and Simulation in Atmospheric Science,” Canadian Society for the History and Philosophy of Science, University of Victoria, Victoria BC, June 2-4
- 2011 “Natural Laws, Governance, and Dispositional Essentialism,” Metaphysics and the Philosophy of Science Conference, Toronto ON, May 13-15
- 2010 “Models and Scientific Explanation,” Models and Simulations 4, University of Toronto, Toronto ON, May 7-9
- 2009 “Models in Scientific Explanations,” American Philosophical Association, Chicago IL, February 18-21

- 2008 “Environmental Policy: Rights, Obligations, and Future Generations,” International Interdisciplinary Conference, Davis and Elkins College, Elkins WV, November 14-15
- 2008 “Kant’s ‘I Think’ Consciousness, and the Unity of Apperception,” LSU Conference in Philosophy, Louisiana State University, Baton Rouge LA, April 18-19

Campus and Workshop Presentations

- 2019 “A Threat to Democracy? Social Values in Climate-Related Decision Making” MSU Philosophy Club, Michigan State University, October 16
- 2018 “An Ethical-Epistemic Analysis of Extreme Weather Attribution,” Limits of the Numerical Workshop Centre for Research in the Arts, Social Sciences, and Humanities, The University of Cambridge, Cambridge UK, July 16
- 2017 “Storms of our own making?” Center for the Humanities Engaging Science and Society (CHESS) Research Workshop, Durham University, Durham UK, November
- 2017 “Decision-Relevancy and Second-Order Uncertainty,” Limits of the Numerical Workshop, University of Chicago, Chicago IL, June 26-29
- 2017 “Saving the Data” IHPST Lunchtime Colloquium, University of Toronto, Toronto ON, March 1
- 2017 “On Numbers and Climate Change,” Franke Institute for the Humanities, University of Chicago, Chicago IL, February 22
- 2016 “Blaming the weather? Philosophy and Extreme Weather Attribution,” Limits of the Numerical Workshop, The University of Cambridge, Cambridge UK, July 18-22
- 2014 “The Role of Explanation in Evidentiary Reasoning,” IHPST Lunchtime Colloquium, University of Toronto, Toronto ON, November 12
- 2013 “Weather and Climate: What should we say about extreme events?” Scientific World Conceptions, University of Vienna, Vienna Austria, July 1-12

PROFESSIONAL SERVICE

Panels, Conferences, and Events Organized

- Organizing Committee Member, Philosophy of Science in Practice Conference, Michigan State University (June 2020)
- Co-organizer, “Climate Science and Public Interests: Social Values and Climate Change,” Philosophy of Science Association Biennial Meeting (November 2018) [*Awarded Women’s Caucus Prize]
- Co-organizer, “Minimizing Barriers and Maximizing Benefits of Engaged Philosophy of Science: A “How-to” Workshop” Philosophy of Science Association Biennial Meeting (November 2018)
- Co-organizer, “Climate Science and Democracy,” The Neubauer Collegium for Culture and Society (April 2018)
- Co-organizer, Logic and Politics of Climate Change Conference (May 2018)
- Co-organizer, Logic and Politics of Climate Change Speaker Series (2017-2018)
- Co-organizer, Limits of the Numerical Conference (June 2017)
- Co-organizer, Limits of the Numerical Speaker Series (2016-2017)

Organizing Assistant, Models and Simulations 4 Conference (2010)

Editorial

Editorial Assistant, *Annals of Science* (2010-2015)

Co-Editor, *Spontaneous Generations: A Journal for the History and Philosophy of Science* (2011-2013)

Referee

The British Journal for the Philosophy of Science (2018, 2019, 2020)

Philosophy of Science (2020)

Studies in the History and Philosophy of Science (2020, 2021)

European Journal for Philosophy of Science (2020)

Synthese (2019)

Studies in History and Philosophy of Science Part C (2017)

Climatic Change (2017)

Annals of Science (2013)

Spontaneous Generations (2011-2013)

Professional Association Committees

Committee Chair, Joint Caucus for Socially Engaged History and Philosophy of Science, History of Science Society and the Philosophy of Science Association (2012-2014)

University and College Committees

Committee Member, Academic Environment Committee, Department of Philosophy, Michigan State University (2020-)

Co-Chair, Speaker Series Committee, Lyman Briggs College, Michigan State University (2019-2020, committee member 2018-2019)

Committee Member, Speaker Series Committee, Lyman Briggs College, Michigan State University (2018-2019)

REFERENCES

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