

Sean Alejandro Valles

East Fee Hall
965 Wilson Road, Rm A-126
Michigan State University
East Lansing, MI 48824
517-355-1634 (office)
valles@msu.edu
<https://seanvalles.com/>

Michigan State University, East Lansing, MI
Center for Bioethics and Social Justice, College of Human Medicine
Director and Professor (2023-)
Director and Associate Professor (2021-2023)

Michigan State University, East Lansing, MI
Lyman Briggs College (75%) and Department of Philosophy (25%)
Graduate Director and Associate Chair, Department of Philosophy (2020-2021)
Associate Professor (2016-2020)
Assistant Professor (2010-2016)

Education

Indiana University - Bloomington, Aug. 2005-May 2010
PhD in History and Philosophy of Science with minors in Genetics and in Philosophy, as well as competencies in French and in Logic.
Master of Arts in History and Philosophy of Science awarded in Feb. 2008.
St. John's College (Annapolis, MD), Aug. 2001-May 2005
Bachelor of Arts in Liberal Arts with concentrations in philosophy and the history of math and science

Book (Monograph)

- Valles, S. A. (2018). *Philosophy of Population Health: Philosophy for a New Public Health Era*. Abingdon, Oxon: Routledge.

Reviewed in: [American Journal of Preventive Medicine](#); [American Journal of Public Health](#); [International Association for Population Health Science \(Blog\)](#); [Kennedy Institute of Ethics Journal](#); [Population Health Management](#); [Studies in History and Philosophy of Science \(author-meets-critics journal section\)](#)

Book Series (as Series Coeditor, with Quill R. Kukla)

- "Bioethics for Social Justice," Oxford University Press, 2020-2025

Peer-Reviewed Publications

- Valles, S. A. (Accepted; Forthcoming). 50 years of US Mass Incarceration and What it Means for Bioethics. *The Hastings Center Report*
- Kursav, M. N., Hos, R., Sweeder, R., & **Valles, S. A.** (2022). Mind the gap: Understanding the disconnect between student services offered and used. *Change: The Magazine of Higher Learning*, 54(3), 40-47.
- Valles, S. A. (2021). Why Race and Ethnicity Are Not Like Other Risk Factors: Applying Structural Competency and Epistemic Humility in the Covid-19 Pandemic. *Philosophy of Medicine*, 2(1), 1-8.
<https://doi.org/10.5195/philmed.2021.52>
- Sweeder, R. D., Kursav, M. N., & **Valles, S. A.** (2021). A cohort scholarship program that reduces inequities in STEM retention. *Journal of STEM Education: Research and Innovation*, 22(1), 5-13.
- Blacksher, E., & **Valles, S. A.** (2021). White privilege, white poverty: Reckoning with class and race in America. *The Hastings Center Report*, 51(S1), S51-S57.
<https://onlinelibrary.wiley.com/doi/full/10.1002/hast.1230>
- Valles, S. A. (2021). The Coupled Ethical-Epistemic Model as a Resource for Feminist Philosophy of Science, and a Case Study Applying the Model to the Demography of “Hispanic” Race and Ethnicity. In H. Grasswick & N. McHugh (Eds.), *Making the Case: Feminist and Critical Race Theorists Investigate Case Studies*. Albany: SUNY Press.
- Valles, S. A. (2020). The predictable inequities of COVID-19 in the US: Fundamental causes and broken institutions. *Kennedy Institute of Ethics Journal*, 369(8251), m205. Retrieved from <https://kiej.georgetown.edu/predictable-inequities-covid-19-special-issue/>
- Valles, S. A. (2020). Philosophy of Biomedicine. In E. N. Zalta (Ed.), *Stanford Encyclopedia of Philosophy*: Metaphysics Research Lab, Stanford University.
<https://plato.stanford.edu/entries/biomedicine/>
- Kaplan, J. M. and **Valles, S. A.** (2019) Reflecting on What Philosophy of Epidemiology Is and Does, as the Field Comes into its Own: Introduction to the Special Issue on Philosophy of Epidemiology. *Synthese*. Online First.
<https://doi.org/10.1007/s11229-019-02252-3>
- Valles, S. A. (2019). A pluralistic and socially responsible philosophy of epidemiology field should actively engage with social determinants of health and health disparities. *Synthese*. <https://doi.org/10.1007/s11229-019-02161-5>
- **Valles, S. A.**, Piso, Z., O'Rourke, M. (2019). Coupled Ethical-Epistemic Analysis as a Tool for Environmental Science. *Ethics, Policy & Environment*. 22 (3) 267-286
- **Valles, S. A.**, Luckie, D. B., Montgomery, G. M., Simmons, E. H., Sweeder, R. D., & Zeleke, A. (2016). Updating the Two Cultures: How structures can promote interdisciplinary cultures. *Change: The Magazine of Higher Learning*, 48 (6), 28-35. <https://doi.org/10.1080/00091383.2016.1247580>
- Valles, S. A. (2016) Race in Medicine. In *The Routledge Companion to Philosophy of Medicine*, edited by M. Solomon, J. R. Simon and H. Kincaid. New York: Routledge. <https://doi.org/10.4324/9781315720739>

- Hall, T. E., Engebretson, J., O'Rourke, M., Piso, Z., Whyte, K., & **Valles, S** (2016) The Need for Social Ethics in Interdisciplinary Environmental Science Graduate Programs: Results from a Nation-Wide Survey in the United States. *Science and Engineering Ethics*, 23 (2), 565-588. <https://doi.org/10.1007/s11948-016-9775-0>
- Valles, S. A. (2016) The Challenges of Choosing and Explaining a Phenomenon in Epidemiological Research on the "Hispanic Paradox". *Theoretical Medicine and Bioethics*. 37 (2), 129-148. <https://doi.org/10.1007/s11017-015-9349-1>
- Normandin, S. and **Valles, S. A.** (2015) How a Network of Conservationists and Population Control Activists Created the Contemporary US Anti-Immigration Movement. *Endeavour*, 39 (2), 95-105. <https://doi.org/10.1016/j.endeavour.2015.05.001>
- Valles, S. A. (2015) Bioethics and the Framing of Climate Change's Health Risks. *Bioethics*, 29(5), 334-341. <https://doi.org/10.1111/bioe.12110>
- Katikireddi, S. V. and **Valles, S. A.** (2015) Coupled Ethical–Epistemic Analysis of Public Health Research and Practice: Categorizing Variables to Improve Population Health and Equity, *American Journal of Public Health*, 105 (1), e36-e42. <https://doi.org/10.2105/aiph.2014.302279>
- **Valles, S. A.**, Bhopal, R. S., Aspinall, P. J. (2015) Census Categories for Mixed Race and Mixed Ethnicity: Impacts on Data Collection and Analysis in the US, UK and NZ. *Public Health*, 129 (3), 266-270. <https://doi.org/10.1016/j.puhe.2014.12.017>
- Valles, S. A. (2013) Validity and Utility in Biological Traits. *Biological Theory*, 8(1), 93-102. <https://doi.org/10.1007/s13752-013-0096-0>
- Valles, S. A. (2012) Heterogeneity of Risk within Racial Groups, a Challenge for Public Health Programs. *Preventive Medicine*, 55(5), 405-408. <https://doi.org/10.1016/j.ypmed.2012.08.022>
- Valles, S. A. (2012) Should Direct to Consumer Personalized Genomic Medicine Remain Unregulated? A Rebuttal of the Defenses. *Perspectives in Biology and Medicine*, 55(2), 250-265. <https://doi.org/10.1353/pbm.2012.0019>
- Valles, S. A. (2012) Evolutionary Medicine at Twenty: Rethinking Adaptationism and Disease. *Biology and Philosophy*, 27(2), 241-261. <https://doi.org/10.1007/s10539-011-9305-z>
- Valles, S. A. (2012) Lionel Penrose and the Concept of Normal Variation in Human Intelligence. *Studies in History and Philosophy of Biological and Biomedical Sciences*, 43(1), 231-289. <https://doi.org/10.1016/j.shpsc.2011.10.010>
- Valles, S. A. (2010) The Mystery of the Mystery of Common Genetic Diseases. *Biology and Philosophy*, 25(2), 183-201. <https://doi.org/10.1007/s10539-009-9184-8>

Other Publications

- Valles, S. A. (2022). Philosophy of Population Health: Philosophy for a New Public Health Era by Sean Valles: Reply by the author. *Studies in History and Philosophy of Science*, 91(2022), 322-323. <https://doi.org/10.1016/j.shpsa.2021.12.006>

- Valles, S. A. (2020). The dynamics of public health responsibility: A commentary on “Public health and precarity” by Michael D. Doan and Ami Harbin. *IJFAB: International Journal of Feminist Approaches to Bioethics*, 13(2), 135-140. <https://doi.org/10.3138/ijfab.13.2.15>
- O’Rourke, M, Hall, TE, Boll, J, Cosens, B, Dietz, T, Engebretson, J, Goralnik, L, Piso, Z, **Valles, SA**, Whyte, K. (2018). A Dialogue-Based Curriculum for Interdisciplinary Environmental Science. <http://eese.msu.edu>
- Valles, SA (2017) Some comments about being a philosopher of color and the reasons I didn’t write a (real) paper for this (seemingly) ideal venue for my work. *Kennedy Institute of Ethics Journal* (online supplement).
- Valles, SA (2015) Judging Culpability in Dwyer’s Climate Change “Gaia Commission”: A Response to Dwyer. *BioéthiqueOnline*, 4(22), 1-2. <https://doi.org/10.7202/1035509ar>
- Valles SA (2013). Review of Scientific Method in Brief. *History and Philosophy of the Life Sciences*, 35(3): 478-479.
- Valles SA (2013). Women's Health Through an Evolutionary Lens. *Evolution*, 67(10): 3075-3076.

Grants

- \$7,685,000, The National Network to Innovate for COVID-19 and Adult Vaccine Equity (NNICE), July 2021-July 2022, Centers for Disease Control and Prevention Award # NU21IP000595-01-00
 - PI Heatherlun Uphold, co-Investigators **Sean Valles** et al.
- \$649,279, April 2016-March 2021, NSF Award #1564745, Division of Undergraduate Education, “Scholarship Program for Retaining, Inspiring, and eNabling Graduates (SPRING): Implementation and Assessment of its Impact on Retention and Graduation Rates”
 - PI Ryan Sweeder, co-PI **Sean Valles**, co-PI Mark Largent, co-PI Richard Shipman, co-PI Samantha Cass
- \$8,000, Lyman Briggs College Trajectory Fund, Jan. 2017-Dec. 2017, “Book Manuscript Completion: Philosophy of Population Health Science”
- \$6,830, Jan. 2015 - Sep. 2017, Interdisciplinary Team Building Initiative, Internal MSU Grant, “Testing Communication Tactics for Overcoming Skepticism”
 - PI: **Sean Valles** Co-PIs: Kevin Elliott, Mark Largent and Aaron McCright
- \$10,000, Dec. 2014 - Dec. 2015, Science and Society @ State Collaborative Grant, Internal MSU Grant, “Interdisciplinary-Based Education Research”
 - Awardees: Peter White, Vashti Sawtelle, Rebecca Lahr, **Sean Valles**, Sara Fingal and Heng Wang
- \$196,759, Sep. 2013 - Aug. 2016, NSF Award # 1338614, Division of Social and Economic Sciences, Ethics Education in Science and Engineering, “Collaborative Research: Values and Policy in Interdisciplinary Environmental Science: A Dialogue-based Framework for Ethics Education”
 - PI Michael O’Rourke, co-PI **Sean Valles**, co-PI Kyle Whyte, co-PI Thomas Dietz

- Project is synchronized with parallel award (#1338626) to University of Idaho, \$103,241
- \$14,000, 2013-2014 MSU Lilly Teaching Fellowship, “Creating a Humanities Component for a Cohort-Based Program of Quantitative and Integrative Reasoning for Freshmen”

Presentations (“ * ” indicates peer-reviewed)

- Ryan D. Sweeder, Merve N. Kursav, **Sean A. Valles**, “How does a cohort-based program support STEM students with fewer systemic advantages?” 2023 SEISMIC Summer Meeting, Ann Arbor, MI, June 2023
- “Rethinking Prisons, Policing, and Public Health after Fifty Years of Mass Incarceration”, California Lutheran University, February 2023
- “Pandemic-Era Eviction Bans Were a Step Toward Recognizing Homes as a Basic Health Need”, California Lutheran University, February 2023
 - Invited; the Harold Stoner Clark Lectures
- “Banning evictions during the pandemic: An underestimated milestone in public health philosophy and practice”, April 2022
 - Invited; Harold Stoner Clark Lectures
- “When It Comes to Your Health, Does Zip Code Matter More Than Genetic Code?”, Michigan State University YourHealth Lecture Series, March, 2022
 - Invited
- “Is a holistic definition of health too dangerous?”, NIH Bioethics-Georgetown Kennedy Institute joint colloquium, March 2022
 - Invited
- * “Empowerment as a means of promoting public health”, American Association for the Advancement of Science annual meeting, February 2022
- * “Mass Incarceration, the Drug War, and Health Equity”, National Hispanic Science Network, September, 2022
- “Housing security’s place in a ‘Culture of Health’: Lessons from the pandemic housing crises in the US and England”, London School of Economics, June 2021
 - Invited
- “Humility in population health science: Lessons for fostering an elder-supportive ‘culture of health’ after the pandemic”, Cambridge University colloquium, May, 2021
 - Invited
- “Fostering epistemic attitudes as part of an elder-supportive ‘culture of health’”, University of Oklahoma Virtue Forum, March, 2021
 - Invited
- “For an Anti-Racist Medical Education, Students Must Learn About the Full Range of Racism Varieties, Not Just Interpersonal Bias,” King’s College London Peter Sowerby Interdisciplinary Workshop, December 2020
 - Invited
- Panelist: “Putting COVID-19 in its Place,” Philosophy of Science Association Public

Forum, November, 2020

- Invited
- <https://vimeo.com/482092354>
- “The Structural Obstacles to Equitable Health in the US, and the Many Types of Expertise It Will Take To Overcome Them,” University of Michigan Cellular and Molecular Biology Program, November 2020
 - Invited, as the Jessica Schwartz Keynote Address
- Panelist: “Uncovering Our Blindspots: The Future of Healthcare,” Envision 2020, Princeton, NJ, October 2020
 - Invited
- “Looking toward post-COVID-19 rebuilding: Population health science on what a more resilient health system would look like,” St. Louis Area Philosophy of Science Association Annual Meeting, April 2020
 - Invited
- “Zip codes, genetic codes, and envisioning an equitable culture of health,” Center for Values in Medicine, Science, and Technology, University of Texas at Dallas, February 2020
 - Invited
 - <https://www.youtube.com/watch?v=RVd9dUxyNiw>
- “Making sense of the meaning and scope of ‘population health,’” Lecture Series of the Graduate Epidemiologists & Biostatisticians at MSU Group, March 2020
- “Advocacy and Practicing Philosophy of Public Health in an Inequitable World,” Eastern Michigan University, Ypsilanti, MI, November 2019
 - Invited
- Workshop/Panel Participant, “Integrating Values into Evidence Based Medicine Workshop,” London School of Economics, London, October 2019
 - Invited
- Workshop/Panel Participant, “Assessing Ethics Education Assessments,” Washington, DC, August 2019
 - Invited
- “Using Humility and a ‘Life course approach’ to Understand the Health Effects of Racism, Sexism and Xenophobia,” 2nd Barcelona Conference of Philosophy of Public Health, June 2019
 - Invited
- “Humbly Collaborating to Build a Culture of Health,” Inaugural Mid/South Philosophy of Science Conference, Lexington, KY, March 2019
 - Invited Keynote
- “Responding to racial health disparities and racism in public health research and practice: Women’s empowerment and other life course strategies,” University of Louisville, Louisville, KY, March 2019
 - Invited
- “New ethical questions about health, medicine and genetics in America,” MSU Alumni Association ‘Coffee with the Profs’, East Lansing, November 2018

- Invited
- <https://alumni.msu.edu/learn/online/livestream-and-video-content/video-content-details.cfm?id=304>
- Workshop/Panel Participant, “How Should the Public Learn? Reconstructing Common Purpose and Civic Innovation for a Democracy in Crisis,” Hastings Center, November 2018
 - Invited
- * “Race concepts are a cause of, and solution to, the health effects of racism,” Philosophy of Science Association, Seattle, November 2018
- * “Philosophy and Prevention: The Future is Key,” American Society for Bioethics and Humanities, Los Angeles, October 2018
- “Decentering medicine and healthcare in philosophy of health science,” University of Cincinnati Philosophy of Biology Workshop, October 2018
 - Invited
- “Epistemic Humility as the Foundation for Population Health Science,” Philosophy of Medicine Meets Social Epistemology Conference, Hanover Germany, June 2018
 - Invited Keynote
- “Person-centered health and population health,” Persons and Populations: Historical and Philosophical and Perspectives Conference, Toronto, April 2018
 - Invited
- “Doing Socially Relevant Philosophy of Public Health: Lessons from Population Health Science,” American Philosophical Association—Central Division, Chicago, February 2018
 - Invited Symposium Speaker
- * “Overcoming the public health ‘boundary problem’ for climate health action,” American Public Health Association, Atlanta, Georgia, November 2017
- “Population Health Thinking and Life Course Thinking,” Diversity in Philosophy Conference, Massey University, Albany, New Zealand, August 2017
 - Invited
- * “Linking Individual Health and Population Health with a Life Course Concept of Health,” International Philosophy of Medicine Roundtable, Toronto, Canada, June 2017
- “Navigating Causal Complexity and Tracing ‘Fundamental Causes’ in Philosophy of Epidemiology,” American Philosophical Association—Pacific Division, Seattle, Washington, April 2017
- “Mobilizing ‘Population Health’ Concepts for #NoDAPL and Social Justice,” Wittenberg University Colloquium, Springfield, Ohio, March 2017
 - Invited
- “Ethics and Evidence in the ‘Population Health Framework’ Approach to Racism and Other Social Determinants of Health,” MSU Philosophy Colloquium Series, East Lansing, December 2016
 - Invited

- * “The Narrowing Expert-Layperson Gap in Public Health’s New ‘Population Health Framework,’” Philosophy of Science Association, Atlanta, November 2016
- * “We’re Mismeasuring Diversity in STEM and Biomedicine: It’s Time to Choose More Equitable Race and Ethnicity Variables,” Society for Philosophy of Science in Practice, Glassboro, NJ, June 2016
- “The Ethics of CRISPR Genetics: Plus Ça Change, Plus C’est la Même Chose,” MSU Bioethics for Breakfast Series, East Lansing, February 2016
- “The Ethics of Race in Medicine,” MSU Philosophy Club, East Lansing, November 2015
 - Invited
- “The Challenges of Choosing and Explaining Phenomena in “Hispanic Paradox” Epidemiology,” University of Utah Department of Philosophy, Salt Lake City, September 2015
 - Invited
- * “Values and Epistemic Risks in the Debate Over Race Concepts’ Roles in Medicine,” International Philosophy of Medicine Roundtable, Bristol, England, August 2015
- * “The Risks of Using or Not Using Race Concepts in Medicine,” International Society for the History, Philosophy and Social Studies of Biology Conference, Montréal, July 2015
- * “Epistemic Risks and the Debate Over Race Concepts’ Roles in Medicine,” Values in Medicine, Science, and Technology Conference, Dallas, May 2015
- “Coupled Ethical-Epistemic Analysis of Public Health Research and Practice,” MSU Philosophy Club, East Lansing, April 2015
- “Panel: A Multidisciplinary Conversation on Race and Science,” Race in 21st Century America Conference, East Lansing, April 2015
- “Coupled Ethical-Epistemic Analysis of Blood Bank Policies,” MSU Bioethics Club, East Lansing, March 2015
- * “Delimiting a Phenomenon in Studies of the ‘Hispanic Paradox,’” American Philosophical Association (Eastern), Philadelphia, December 2014
- * “A SRPoiSE Case Study: Obstacles to Defining and Explaining the ‘Hispanic Paradox,’” Philosophy of Science Association, November 2014
- * “Preventing Stereotype Threat in a History, Philosophy and Sociology of Science Course for First-year Science Majors,” Association for Interdisciplinary Studies, October 2014
 - Presenter and organizer of panel on inclusivity in education
- * “A Coupled Ethical-Epistemic Analysis of the US Ban on Blood Donations from ‘Men Who Have Sex with Men,’” Consortium for Socially Relevant Philosophy of/in Science and Engineering, Waterloo, Ontario, Canada, June 2014
- Poster Co-Author (not presenter) with Mingcai Zhang, “Pilot Data on a New Curriculum for an Introductory Science Studies Course and on the INQUIRE First-Year Cohort Program,” Michigan State University Lilly Program Poster Session, East Lansing, MI, April 2014

- “Race is Not Always Useful and Not Always Useless in Biomedical Research,” The Race Debates: From Philosophy to Biomedical Research, San Francisco, CA, April 2014
 - Invited presentation, funded by NSF grant
 - Recorded and available online (beginning at minute 22:24):
https://media.usfca.edu/app/sites/index.aspx?destinationID=22WbIQj2nE6nMgDHVZYgvg&contentID=cmQfB_EqLE2v_Wj8fRKkVQ&pageIndex=1&pageSize=10
- “‘What Unites Us / What Divides Us’: Race,” Panel Presentation, Honors College Sharper Focus / Wider Lens Series, Michigan State University, East Lansing, Apr. 2014
 - Invited
- * “The ‘Lumping’ vs. ‘Splitting’ Problem in Studies of the Hispanic Paradox,” International Philosophy of Medicine Roundtable, New York City, November, 2013
- “A Brief Introduction to Medical Ethics,” American Medical Student Association (MSU Chapter), East Lansing, MI, Nov. 2013
- * “Untangling Fitness, Well-Being and Health in a Multidisciplinary Evolutionary Biology Collaborative Project,” Biennial Meeting of the Society for Philosophy of Science in Practice, Toronto, Canada, June, 2013
- “Transatlantic Observation on Mixed Race and Mixed Ethnicity Concepts,” University of Edinburgh Centre for Population Health Sciences, May, 2013
 - Invited presentation
- “Lumping vs. Splitting in the Use of Racial and Ethnic Categories: The Problem of Heterogeneity of Risk,” REACH Community Health Center workshop, Glasgow, Scotland, May 2013
 - Invited presentation
 - Outreach presentation for a mixed government, academic and non-profit workers, hosted by non-profit organization
- “When Racial and Ethnic Categories Conceal Heterogeneity of Risk: Ethical and Evidentiary Dimensions,” University of Edinburgh Centre for Population Health Sciences, Edinburgh, UK April, 2013
 - Invited presentation
- * (With Sebastian Normandin) “Population, Immigration Restriction and Reproductive Rights in the Post-Eugenics US,” Midwest Junto for the History of Science, Notre Dame, IN, April 2013
 - 50%-50% distribution of writing and presentation duties
- “A Brief Introduction to Medical Ethics,” MSU Chapter of American Medical Student Association, April 2013
- “Teaching Socially Relevant Philosophy of Science,” Socially Relevant Philosophy of/in Science Workshop, Pennsylvania State University, State College, PA, March 2013
 - Invited presentation

- “Teaching Scientific Reasoning,” MSU Lyman Briggs College seminar for visiting scholars from University of Duhok, Iraq, East Lansing, MI, March 2013
- “Socially Relevant Philosophy of Medicine,” Socially Relevant Philosophy of Science Workshop, MSU, East Lansing, MI, October, 2012
- “Two Types of Mismatch: Fitness and Well-Being,” National Evolutionary Synthesis Center Workshop: Evolutionary Mismatch, Durham, NC, October, 2012
 - Invited participant in interdisciplinary meeting
- * (With Sebastian Normandin) “Population, Paleoconservatism, and Paternalism: Reproductive Rights and Immigration Restriction in the Post-Eugenics U.S.,” Western Michigan University Medical Humanities Conference, Kalamazoo, MI, September 2012
 - 50%-50% distribution of writing and presentation duties
- * “Race as Risk in Public Health Programs,” Science-Policy Interactions and Social Values Conference, Dallas, TX, March, 2012
- * “Narrow Evolutionary Biology and Dubious Clinical Medicine in Evolutionary Medicine,” International Philosophy of Medicine Roundtable, San Sebastián, Spain, November, 2011
- “Keynote Address: Academic Habits and the Danger of Aimless Success,” National Society of Collegiate Scholars Induction Ceremony (MSU Chapter), East Lansing, October, 2011
- * “Navigating the Epistemic Challenges to Personalized Genomic Medicine,” International Society for the History, Philosophy and Social Studies of Biology Conference, Salt Lake City, UT, July 2011
- * “Not All Interdisciplinary Philosophy Helps Justify Philosophy’s Relevance: Lessons from Philosophy of Biology,” New Practices of Philosophy Conference, in Denton, Texas, March 2011.
- “The Strangely Stubborn and Subtly Stigmatizing Search for Health Effects in Genetic Disease Gene Carriers,” Center for Ethics and Humanities in the Life Sciences, Michigan State College of Human Medicine, East Lansing, January, 2011
 - Invited presentation, publicly broadcast via live and archived webcast
- “Keynote Address: Habits Make the Student, an Aristotelian Perspective,” National Society of Collegiate Scholars Induction Ceremony (MSU Chapter), East Lansing, October, 2010
 - Outreach presentation for an audience of undergraduate students and their parents.
- * “Lionel Penrose: Challenging Eugenics by Rethinking Disease,” Society for the History of Medicine and Science, Louisville, KY, March 2010
- “Redefining Mental Defect: Lionel Penrose’s Defense of Human Variation,” Indiana University “Evolution, Diversity and Change,” Workshop, Bloomington, IN, September 2009
- “Eugenics Methodology: The Powers and Limitations of Human Population Manipulation”, Midwest Crossroads AGEP/LSAMP Conference, Indianapolis, IN, November, 2006

Advising and Consulting for Non-Profit Groups and Government Agencies

- Michigan Department of Health and Human Services Housing and Healthcare Workgroup (2021-)
- Science and Policy Advisor (unpaid) (2019-), Interfaith Public Health Network
- Task Force Member (unpaid) (2019), Alberta Health Services Ministry, "Population Health Needs Framework for Service Planning"

External Peer Reviewing

- American Geophysical Union Books, Wiley (as chapter reviewer)
- *American Journal of Public Health*
- *Biology and Philosophy*
- *BioScience*
- *BMC Medical Ethics*
- Cambridge University Press (as book proposal reviewer)
- *Critical Public Health*
- *Dutch Research Council*
- *Endeavour*
- *Erkenntnis*
- *European Journal for Philosophy of Science*
- *Harvard Public Health Review*
- *Hastings Center Report*
- *Hypatia*
- International Symposium on Ethics in Engineering, Science, and Technology (as Conference Proceedings Reviewer)
- *Kennedy Institute of Ethics Journal*
- *The Lancet*
- *Medical Humanities*
- National Science Foundation
- Oxford University Press
- Palgrave MacMillan (Book Manuscript)
- *Philosophy and Theory in Biology*
- *Philosophy Compass*
- *Sage Open* (as guest editor for an article)
- Social Sciences and Humanities Research Council (Canada)
- Springer (as book manuscript reviewer and book proposal reviewer)
- *Studies in History and Philosophy of Biological and Biomedical Sciences*
- *Synthese*
- *Tapuya: Latin American Science, Technology and Society*

Awards and Honors

- Nominated for the 2021 Philosophy of Science Association Prize in Philosophy of

Science & Race

- Lyman Briggs College Nominee for MSU Alumni Club of Mid-Michigan Quality in Undergraduate Teaching Award, 2018
- MSU Teacher Scholar Award, 2016
- Lyman Briggs College Nominee for MSU Teacher Scholar Award: 2013, 2014, 2015
- Lyman Briggs College Faculty Award, 2014
- Awarded the 2010 Victor E. Thoren Fellowship by the Indiana University History and Philosophy of Science Department.
- Awarded a 2005 National Science Foundation AGEP Fellowship for underrepresented minorities in the sciences

“Writing and Multimedia for a General Audience

- “We Need Healthier Schools, and Student Activists Are Stepping Up,” for the MSU Bioethics in the News blog series, November, 2019
 - <https://msubioethics.com/2019/11/14/healthier-schools-student-activists-valles/>
- “A ray of light for feminist bioethics: the growing field of population health science is feminist science,” for the blog of the International Journal of Feminist Approaches to Bioethics, July 2019
 - <https://www.ijfab.org/blog/2019/07/a-ray-of-light-for-feminist-bioethics-the-growing-field-of-population-health-science-is-feminist-science/>
- “Recognizing Menstrual Supplies as Basic Health Necessities: The Bioethics of #FreePeriods,” for the MSU Bioethics in the News blog series, November, 2018
 - <https://msubioethics.com/2018/11/01/menstrual-supplies-as-basic-health-necessities-bioethics-of-freeperiods/>
- “A Culture of Humility for a Culture of Health,” lecture for TEDxMSU, April, 2018
 - <https://www.youtube.com/watch?v=OHYWhWcTq9I>
- “Politics and the Other Lead Poisoning,” for the MSU Bioethics in the News blog series, November, 2016
 - <https://msubioethics.com/2016/11/17/public-health-ethics-of-gun-violence/>
- “Don’t Call Them ‘Kids,’” for Inside Higher Ed, June, 2014
 - Republished by Slate.com as “Hey Professors, Quit Calling Your Students ‘Kids’: It’s Demeaning and Encourages Childish Behavior,” June, 2014
 - <https://www.insidehighered.com/views/2014/06/17/essay-criticizes-way-professors-call-their-students-kids>
 - http://www.slate.com/articles/life/inside_higher_ed/2014/06/professors_should_stop_calling_college_undergraduate_students_kids_it_s.html
- “Climate Change and Medical Risk,” for the MSU Bioethics in the News blog series, October, 2013
 - <http://msubioethics.com/2013/10/25/climate-change-and-medical-risk/>

Professional Affiliations and Service

- Member at Large of the Board of Directors (Appointed) (2023-2025), Association of Bioethics Program Directors
- Editorial Board Member (2020-), *Studies in History and Philosophy of Science*
- Advisory Committee Member (2023-), Philosophy of Medicine Roundtable
- Organizing Committee Member (2019-2023), Philosophy of Medicine Roundtable
- Member (2019-2021), Committee on Inclusivity and Future of the Women's Caucus Project, Women's Caucus of the Philosophy of Science Association
- Governing Board (Elected, Jan. 2019-Dec. 2022), Philosophy of Science Association
- Member (2019-2020), Membership Committee, Interdisciplinary Association for Population Health Science
- Co-editor (2019-2020), Blog, Interdisciplinary Association for Population Health Science
- Judging Panel Member (2020), Australasian Association of Philosophy Prize for Innovation in Inclusive Curricula
- Co-leader (2019-2020), Local Organizing Committee for the biennial conference of the Society for Philosophy of Science in Practice (cancelled due to COVID-19)
- Invited project member (November 2018-), Hastings Center, "How Should the Public Learn? Reconstructing Common Purpose and Civic Innovation for a Democracy in Crisis"
- Committee Member (July 2018-June 2021), American Philosophical Association Committee on Public Philosophy
- Special Issue Guest Co-Editor with Jonathan Kaplan (2017-2019), *Synthese*, "Philosophy of Epidemiology"
- Reviews Editor (2017-2020), *Studies in History and Philosophy of Science Part C: Studies in History and Philosophy of Biological and Biomedical Sciences*
- Chair of Communications Committee (2017-2019), International Society for History, Philosophy, and Social Studies of Biology
- Co-Chair (2017-2019), Philosophy of Science Association-History of Science Society Joint Caucus for Socially Engaged Philosophers and Historians of Science
- Committee Member (2017-), Outreach and Engagement Committee, Philosophy of Science Association
- Board Member and Co-Founder (2014-), Consortium for Socially Relevant Philosophy of/in Science and Engineering (<http://srpoise.org>)
- Awards Committee Member (2016-2017), American Public Health Association (Ethics Section)
- Associate Editor (2015-2017), *BMC Medical Ethics*
- Secretary (Elected, 2015-2017), International Society for History, Philosophy, and Social Studies of Biology
 - Member ex officio, Executive Committee
 - Member, Communications Committee
 - Member, Nominations Committee

Other Service to the Profession

- Advisory Committee: *"Building a Circuit of Civic Learning, Dialogue, and Connection: A Deliberative Democratic Model, Materials, and Metrics"*, University of Kansas Medical Center
- Steering committee of the NSF project, Research Coordination Network Steering Committee: Mapping Authorities and Ontologies in Computational and Digital HPS (2017-2019)
- Conference Organizing Committee Member, "Too Much Medicine," Oxford University, January 2016-April 2017
- Invited Mentor, Joint Caucus for Socially Relevant Philosophy and History of Science Mentoring Lunch, Nov. 2016
- Program Committee Member, 2016 joint 3rd Annual Meeting of The Consortium for Socially Relevant Philosophy of/in Science and Engineering and Annual Values in Medicine, Science, and Technology Conference
- Proposal Reviewer, "International Symposium on Ethics in Engineering, Science, and Technology," October 2015-January 2016
- Session Commentator, "Marginal Differences & Performance of Knowledge from the Margins," Knowledge from the Margins: Social Justice and Sustainability, East Lansing, Aug. 2015
- Program Committee Member, "3rd Annual Meeting of SRPoiSE: The Consortium for Socially Relevant Philosophy of/in Science and Engineering and the 6th Annual Values in Medicine, Science, and Technology Conference," May 2015-May 2016
- Session Moderator, "Philosophy in Science/Engineering Fields," Annual Meeting of Consortium for Socially-Relevant Philosophy of/in Science and Engineering, Detroit, March 2015
- Organizer of an Interest Group Lunch, "The Relationship between Philosophy of Science and Philosophy of Medicine," at the meeting of the Philosophy of Science Association, Nov. 2014
- Co-author of the constitution of the Consortium for Socially Relevant Philosophy of/in Science and Engineering, 2013
- Session chair, "The Concept of Race: Biological, Cognitive, and Social Perspectives," Philosophy of Science Association, San Diego, Nov. 2012

Campus Service

- Spring 2021 – Fall 2024, elected co-chair, Dean's Advisory Committee on Diversity
- Spring 2021 - Fall 2021, member, "Dean of the College of Human Medicine" Search Committee
- Spring 2021- , Member, Advisory of Board of the MSU Center for Interdisciplinarity

- Fall 2020-Spring 2021, Associate Chair and Graduate Director, Michigan State University Department of Philosophy
- Fall 2020-Spring 2021, Member, Advisory Policy committee, Michigan State University Department of Philosophy
- Fall 2020-Spring 2021, Member, College Advisory Committee, MSU College of Arts and Letters
- Fall 2020-Spring 2021, Member, College Graduate Committee, MSU College of Arts and Letters
- 2020, Member, MSU Academic Workgroup in Support of Community Values
- Fall 2018-Spring 2020, Faculty Excellence Advocate (on behalf of MSU Provost's Office), Lyman Briggs College
- Fall 2017-Spring 2018 "Dean of Lyman Briggs College" search committee chair
- Fall 2017-Spring 2018 "Environmental History" search committee chair
- Fall 2017-Summer 2020, Director of Michigan State University Science and Society @ State Internal Grant Program
- Fall 2017 "Center for Interdisciplinarity Managing Director" search committee member
- Summer-Fall 2016, co-leader of curriculum redesign for the MSU Bioethics and Humanities undergraduate minor
- Fall 2015-Spring 2016, Chair, Course Evaluation Revision Committee (Department of Philosophy)
- Fall 2012-Spring 2016; Fall 2017-Spring 2020, Placement Co-Director for Philosophy Department
- Fall 2015- Spring 2018, Elected Member, Briggs Advisory Council
- Fall 2015-Spring 2016, "Philosophy of Science," search committee member
- Fall 2014-Present, Member of MSU Honors College Assessment Working Group
- Fall 2014-2017, Advisory Board Member of Michigan State University Science and Society @ State Internal Grant Program
- Fall 2014-Spring 2016, Steering Committee of the Lyman Briggs College Writing Studio Program
- Fall 2014-Spring 2015, "Philosophy of Neuroscience," search committee member
- Fall 2014, Member of MSU Truman Scholarship Interview and Selection Committee
- Co-Organizer of 2014 Martin Luther King Day workshop for Lyman Briggs College on diversity and inclusivity at Michigan State University.
- Faculty co-advisor to Lyman Briggs College History, Philosophy and Sociology of Science Student Association, Fall 2012-Fall 2018
- Fall 2011- Spring 2016, External Funding Officer for Philosophy Department
- Fall 2011-Spring 2016, Member of Lyman Briggs College Speaker Series Committee
- Fall 2013- Spring 2015, Convener for the HPS Faculty of Lyman Briggs College
- Summer 2014, "Lyman Briggs College Fiscal Officer" search committee member
- Fall 2013-Spring 2014, Chair of Lyman Briggs College Inclusivity Committee

- Fall 2012-Spring 2013, Member, “Environmental Philosophy” search committee member
- Fall 2011-Spring 2013, Member of Lyman Briggs College Educational Policies Committee (Chair from Fall 2011-Spring 2012)
- Fall 2010-Spring 2013, Recorder for the HPS Faculty of Lyman Briggs College
- Represented MSU and Lyman Briggs at Institute for Curriculum and Campus Internationalization Conference, 2012
- Member, Steering Committee of the 2012 Conference on Interdisciplinary Teaching and Learning
- Fall 2011-Spring 2012, member of Lyman Briggs College Academic Program Review writing committee
- Summer 2011, Member of fixed-term HPS faculty search committee
- Faculty Advisor to the Michigan State University chapter of the National Society of Collegiate Scholars, Fall 2010-Spring 2011