

# SARA ANN WYLIE

## CONTACT INFORMATION

Social Science Environmental Health Research Institute  
Northeastern University  
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## EDUCATION

### Massachusetts Institute of Technology

2011 PhD in History, Anthropology, Science, Technology and Society (HASTS)

### University of Chicago

2002 BA with General Honors in the College and Honors in Anthropology

- Anthropology Honors Thesis Title: “Century City: Cape Town’s New Way of Life?”
- Honors Thesis Advisor: Jean Comaroff

## EMPLOYMENT

2013 Assistant Professor, joint appointment in Sociology and Health Sciences,  
Social Science Environmental Health Research Institute, Northeastern University

2012 Senior Research Scientist, Social Science Environmental Health Research  
Institute, Northeastern University

2010-2012 Part Time Faculty Rhode Island School of Design (RISD) Digital+Media  
Department

2010-2012 Director of Toxics and Health Research and co-founder of Public Laboratory for  
Open Technology and Science <http://publiclab.org/>

2002-2004 Research Assistant and Lab Manager, Joan Ruderman Lab, Department of Cell  
Biology Harvard University

## PUBLICATIONS

### Books:

**Wylie, Sara.** 2018. *Fractivism: Corporate Bodies and Chemical Bonds*. Duke University Press’s  
*Experimental Futures* series.

### Refereed Articles:

Anita Chan, Lindsey Dillon, Rebecca Lave, Becky Mansfield, Michelle Murphy, Nick Shapiro,  
**Sara Wylie.** (submitted by invitation) “Situating Data in a Trumpian Era: The  
Environmental Data and Governance Initiative” *Annals of the Association of American  
Geographers*. Annals Special Issue 2019, “Environmental Governance in a  
Populist/Authoritarian Era.” (Authors listed alphabetically)

Dillon Lindsey, Walker Dawn, Shapiro Nicholas, Underhill Vivian, Martenyi Megan, **Wylie  
Sara,** Lave Rebecca, Murphy Michelle, Brown Phil, and Environmental Data and

- Governance Initiative. 2017. "Environmental Data Justice and the Trump Administration: Reflections from the Environmental Data and Governance Initiative". *Environmental Justice*. December, 10(6): 186-192. <https://doi.org/10.1089/env.2017.0020>
- Wylie, Sara**, Shapiro, Nick, & Liboiron, Max. (2017). Making and Doing Politics Through Grassroots Scientific Research on the Energy and Petrochemical Industries. *Engaging Science, Technology, and Society*, 3, 393-425. doi: <https://doi.org/10.17351/ests2017.134>
- Wylie, S.**, Wilder, Elisabeth.\*, Vera, Lourdes.\*, Thomas, Deborah., & McLaughlin, Megan. (2017). Materializing Exposure: Developing an Indexical Method to Visualize Health Hazards Related to Fossil Fuel Extraction. *Engaging Science, Technology, and Society*, 3, 426-463. doi:<https://doi.org/10.17351/ests2017.123>
- Matz, J.\*, **Wylie, S.**, & Kriesky, J. (2017). Participatory Air Monitoring in the Midst of Uncertainty: Residents' Experiences with the Speck Sensor. *Engaging Science, Technology, and Society*, 3, 464-498. doi:<https://doi.org/10.17351/ests2017.127>
- Sofia Eleni Spatharioti\*, Rebecca Govoni, Jennifer S. Carrera, **Sara Wylie** and Seth Cooper. 2017. A Required Work Payment Scheme for Crowdsourced Disaster Response: Worker Performance and Motivations, In: Proceedings of the ISCRAM 2017 Conference, Albi, France
- Wylie, Sara**, Kim Schultz, Deborah Thomas, Chris Kassotis and Susan Nagel. 2016. "Inspiring Collaboration: The Legacy of Theo Colborn's Trans-disciplinary Research on Fracking." *NEW SOLUTIONS: A Journal of Environmental and Occupational Health Policy* 26(3): 360-388.
- Willow, Anna and **Sara Wylie**. 2014. "Politics, ecology, and the new anthropology of energy: exploring the emerging frontiers of hydraulic fracking. *Journal of Political Ecology* 21: 222-236.
- Wylie, Sara** and Len Albright. 2014. "WellWatch: reflections on designing digital media for multi-sited para-ethnography." *Journal of Political Ecology* 21: 320-348.
- Wylie, Sara**, Kirk Jalbert, Shannon Dosemagen, and Matt Ratto. 2014. "Institutions for civic technoscience: How critical making is transforming environmental research." *The Information Society* 30(2): 116-126.
- Ratto, Matt, **Sara Wylie**, and Kirk Jalbert. 2014. "Introduction to the Special Forum on Critical Making as Research Program." *The Information Society* 30(2): 85-95.
- Wylie, Sara**. 2011. "Hormone Mimics and their Promise of Significant Otherness." *Science as Culture* 21(1): 49-76.
- Wylie, Sara**, Jeff Warren, Shannon Dosemagen. 2011. "Grassroots Mapping: Creating a participatory map-making process centered on discourse." *Journal of Aesthetics and Protest* Grassroots Modernism/Issue 8.

#### **Book Chapters:**

- Wylie, Sara**. 2015. "Securing the Natural Gas Boom: The Role of Science, the Academy and Regulatory Capture in the Exemption of Hydraulic Fracturing from Regulatory Oversight." In *Subterranean Estates: Life Worlds of Oil and Gas*. Hannah Appel, Arthur Mason and Michael Watts (eds). Cornell University Press.

#### **Book Reviews:**

- Wylie Sara**. 2016. *Ghost Stories for Darwin: The Science of Variation and the Politics of Possibility*. By Banu Subramaniam. Urbana: University of Illinois Press, 2014. *Sex Itself*:

*The Search for Male and Female in the Human Genome*. By Sarah S. Richardson. Chicago: University of Chicago Press, 2013. *Women, Science, and Technology: A Reader in Feminist Science Studies*. 3rd ed. Edited by Mary Wyer, Mary Barbercheck, Donna Cookmeyer, Hatice Ozturk, and Marta Wayne. New York: Routledge, 2013. *Signs* Journal Special Issue on Science, Technology and Society.

## CREATIVE ACTIVITY

- Wylie, Sara** and Rebecca Lave (series editors). 2017. “The First 100 Days and Counting”. Environmental Data and Governance Initiative’s Public Peer-Reviewed reports on the Trump administration changes to federal environmental governance. <https://100days.envirodatagov.org/>
- Sellers C, Dillon L, Ohayon JL, Shapiro N, Sullivan M, Amoss C, Bocking S, Brown P, De la Rosa V, Harrison J, Johns S, Kulik K, Lave R, Murphy M, Piper L, Richter L, **Wylie S**. 2017. “EPA under siege: Trump’s assault in history and testimony”. 100 Days and Counting Part I. Environmental Data and Governance Initiative. <https://envirodatagov.org/publication/the-epa-under-siege/>. Published June 19<sup>th</sup>. Accessed July 9, 2017.
- Britt S. Paris, Lindsey Dillon, Jennifer Pierre, Irene V. Pasquetto, Emily Marquez, **Sara Wylie**, Michelle Murphy, Phil Brown, Rebecca Lave, Chris Sellers, Becky Mansfield, Leif Fredrickson, Nicholas Shapiro, EDGI. 2017. “Pursuing a Toxic Agenda: Environmental Injustice in the early Trump Administration.” 100 Days and Counting Part II. Environmental Data and Governance Initiative. Published September.
- Wylie Sara** and Brit Paris. 2017. Environmental Injustice at the EPA. Cultures of Energy Podcast. Episode 91# Center for Energy & Environmental Research at Rice University September 19<sup>th</sup>. Online: <http://cenhs.libsyn.com/>.
- EDGI Data Rescue Events. Through the EDGI Sara Wylie assisted in organizing a nation wide network of events know as Data Rescue to archive vulnerable federal datasets. One of which was held at Northeastern University. Over 60 events were organized in total leading to the most thorough archiving of federal environmental available online to date by the Internet Archive: <https://envirodatagov.org/datarescue/>
- Villa, Priscilla, Vera Lourdes\*, **Wylie, Sara**, Sharon, Wilson. 2017. “Hazards in the Air: Relating reported illnesses to air pollutants detected near oil and gas operations in and around Karnes County, Texas”. Earthwork OGAP. April 29<sup>th</sup>. Online: [https://www.earthworksaction.org/library/detail/hazards\\_in\\_the\\_air](https://www.earthworksaction.org/library/detail/hazards_in_the_air)
- Spanish Language Translation 2017. “Peligros en el Aire: Relacionando enfermedades reportadas a los contaminantes del aire detectados cerca de las operaciones de petróleo y gas dentro y alrededor del Condado de Karnes, Texas” Published September 19. [https://www.earthworksaction.org/library/detail/peligros\\_en\\_el\\_aire#.WclhXtN94Wo](https://www.earthworksaction.org/library/detail/peligros_en_el_aire#.WclhXtN94Wo)
- Wylie, Sara**. 2016-present. Co-Founder and Steering Committee member of Environmental Data and Governance Initiative (EDGI). The Environmental Data and Governance Initiative (EDGI) <https://envirodatagov.org/> is an international network of academics and non-profits addressing potential threats to federal environmental and energy policy, and to the scientific research infrastructure built to investigate, inform, and enforce. EDGI builds online tools, events, and research networks to proactively archive public environmental data and ensure its continued publicly availability. EDGI monitors

changes to federal regulation, enforcement, research, funding, websites and general agency management at EPA, DoE, NASA, NOAA, and OSHA. EDGI also produces many report and develops a model for future democratic environmental governance.

<https://envirodatagov.org/>

**Wylie, Sara.** 2014. Citizen Science, NIEHS Partnership for Public Health Podcast. March 17th. Online:

[https://www.niehs.nih.gov/research/supported/translational/peph/podcasts/citizen\\_science/index.cfm](https://www.niehs.nih.gov/research/supported/translational/peph/podcasts/citizen_science/index.cfm)

**Wylie, Sara.** 2013. "Public Laboratories: Designing and Developing Tools for Do-It-Yourself Detection of Hazards." *Limn Issue 3. Sentinel Devices* with Megan McLaughlin and Josh McIlvain.

**Wylie, Sara,** Adam Griffith and Jeffrey Warren. 2011. "From Grassroots Mapping to a Public Laboratory." *Citizen Science Quarterly* Vol. 1.

**Wylie, Sara,** Jeff Warren, and Shannon Dosenmagen. 2011. "Public Laboratory: Don't Just Report Science, Do It!" *PBS MediaShift*.

**Wylie, Sara** and Shannon Dosemagen. 2011. "Public Lab Aims for Affordable Hydrogen Sulfide Sensors" *PBS MediaShift IdeaLab Blog*.

## HONORS AND AWARDS

- 2017 Selected as 1 of 20 under 40 Pioneers in Environmental Public Health Award from the *Collaborative on Health and the Environment*. "These 20 pioneering researchers and advocates were nominated by a committee of senior leaders and luminaries in environmental public health."  
<https://www.healthandenvironment.org/our-work/webinars/pioneers-under-40-series>
- 2017 *Society for the Social Study of Science* Award for *Distinguished Contribution to Making and Doing in STS* for "Environmental Data and Governance Initiative (EDGI): Engaged STS Responding to the U.S. Administration" for theorizing and enacting a heterogeneous collaboration dedicated to the care, imagination, and the re-imagination of environmental data and data justice:  
<http://www.4sonline.org/prizes/makingdoing>
- 2017 J. Franklin Jameson Archival Advocacy Award: Environmental Data and Governance Initiative. Society of American Archivists. The Environmental Data and Governance Initiative (EDGI) is the 2017 recipient of the J. Franklin Jameson Archival Advocacy Award given by the Society of American Archivists (SAA). The award honors an individual, institution, or organization that promotes greater public awareness, appreciation, or support of archival activities or programs. <https://www2.archivists.org/node/21821>
- 2015 Elected to the *Society for the Social Studies of Science* (4S) council for three year term
- 2014 Presenter for the 1st White House Maker Fair hosted by President Barack Obama.
- 2013 Northeastern Humanities Center Resident Fellowship Program: Viral Cultures
- 2011 Mullin's Prize Winner for Best Graduate Student Paper, Society for the Social Study of Science (4S) "Hormone Mimics and their Promise of Significant Otherness." *Science as Culture*.

- 2011 Prix ARS Electronica Honorable Mention- Digital Communities, Public Laboratory for Open Technology and Science
- 2008 Winner Benjamin Siegel Prize for Outstanding Graduate Student Paper: “Mimetic Designs Desires And Disorders: A Transformative History of Juvenile Hormone”
- 2007 Honorable Mention, Benjamin Siegel Prize for Outstanding Graduate Student Paper: "Becoming Beagle: Following a Disruptive System, Forming a Disruptive Science."
- 2005 NSF Graduate Research Fellowship Honorable Mention
- 2002 Phi Beta Kappa, Beta Chapter of University of Chicago
- 2002 Community Service Award for starting and teaching art classes in a shelter for women recovering for drug addictions and their children.
- 1998-2002 Dean’s List, University of Chicago

## PRESENTATIONS

### Plenary and Keynote Presentations

- 2017 *Collaborative on Health and the Environment* 20 Pioneers in Environmental Public Health Award Webinar Series. (December 6<sup>th</sup>). Online: <https://www.healthandenvironment.org/webinars/96378>
- 2014 Society for Social Studies of Science Annual Meeting Plenary Address: “STS in Practice: Developing a Civic Techno-science.” (August 20<sup>th</sup>)
- 2014 Invited presenter with Public Lab for the first White House Maker Faire (June 18<sup>th</sup>)
- 2014 Keynote Speaker, Design Research Society, Sweden. (declined)
- 2013 Keystone Lecture, National Institute for Environmental Health Science (NIEHS) “Toward a Civic Science: Putting Tools for Rigorous Research into Public Hands” (December 9<sup>th</sup>)

### Invited Talks

- 2017 Sofia Eleni Spatharioti, Rebecca Govoni, Jennifer S. Carrera, Sara Wylie and Seth Cooper. (2017) Cartoscope: A New Platform for Citizen Science and Disaster Response. Citizen Science Association Conference, St. Paul, MN.
- 2017 University of Michigan, Science, Technology, and Public Policy (STPP) Program at the Ford School of Public Policy at the University of Michigan, Seminar, April 19th. Title: “Toward a Civic Technoscience”
- 2017 American Association of Geographers. “Values in environmental research: beyond a scientized politics and politicized science”. Invited panelist. April 5th
- 2017 Carnegie Mellon University, Energy and Culture Symposium, Panel presentation “Power and the People: Citizen Science and Understanding the Risks of Energy Production”. Title “Toward a Civic Technoscience”. March 27-31st.
- 2017 with Lourdes Vera\*. STS Underground Network workshop and conference, Colorado School of Mines. “Materializing Exposure: Developing methods for engaged STS research to visualize health hazards related to fossil fuel extraction.” February 5<sup>th</sup>-7<sup>th</sup>
- 2016 Sofia Eleni Spatharioti, Rebecca Govoni, Jennifer Carrera, Sara Wylie and Seth Cooper. Exploring Required Work and Progress Feedback in Crowdsourced Mapping. AAAI Conference on Human Computation and Crowdsourcing, Austin, TX.

- 2016 Rubenstein School of the Environment and Natural Resources. University of Vermont Seminar Speaker (October 6th) Title: “Toward a Civic Technoscience”.
- 2016 Indexical Design Conference, Northeastern University (June 25th) Title: “Making Pollution Manifest”.
- 2016 University of Chicago Anthropology Department, Seminar Series. “Toward a Civic Technoscience”. April 25th
- 2015 Environmental Protection Agency Region 1 Science Council. Citizen Science ForumTalk Title: “Citizen Science: Changing the Face of Environmental Research” Oct 21st.
- 2015 Approaches to Civic Media, Boston Civic Media Kick Off for Boston Civic Media Consortium & Network Emerson College, October 15th.
- 2015 Association of Public Health Laboratories, Annual Meeting. Panel: “Citizen Science – What is the Role of the Public Health and Government Laboratories.” Talk title: “Civic Science: Building Tools and Platforms for Rigorous Public Research”. May 19.
- 2015 Drexel University: 'Shifting Energy Cultures' Drexel's Institute for Energy and Environment, the Center for STS, and the Center for Mobilities Research and Policy. May 27.
- 2015 J.B. and Maurice C. Shapiro Symposium "Advanced Monitoring, Remote Sensing, and Data Gathering, Analysis and Disclosure in Compliance and Enforcement" March 26-27, The George Washington University Law School: “Civic Science: Building Tools and Platforms for Rigorous Public Research”.
- 2015 Grounds For Engagement: design, landscape and environmental health. Northeastern Center for the Arts, Northeastern University: “New Tools for Detecting and Communicating Environmental Exposures and Risks associated with Oil and Gas Extraction.” January 26<sup>th</sup>
- 2014 with Deborah Thomas, Partnerships for Environmental Public Health, National Institute of Environmental Health Science, Annual Meeting: “New Tools for Detecting and Communicating Environmental Exposures and Risks associated with Oil and Gas Extraction.” September 22<sup>nd</sup>
- 2014 Partnerships for Environmental Public Health, National Institute of Environmental Health Science, Annual Meeting (Workshop): “Open Source Approaches to Mapping Community Environmental Health Threats: make your own satellite, visualize Hydrogen Sulfide contamination and map thermal pollution.” September 23<sup>rd</sup>
- 2014 NIEHS Superfund Research Program (SRP) Webinar: “Toward a Civic Science: Developing Tools for Rigorous Public Research”. Presentation to the SRP Research Translation/Community Engagement Cores. July 10<sup>th</sup>
- 2014 with Lauren Ritcher\*, University of Southern California, STS program. “Transforming Environmental Health Research through STS”. March 6<sup>th</sup>.
- 2013 Millennium Campus Conference Northeastern University: “Innovative Tech Solutions” Panel: “Toward a Civic Technoscience: ExtrAct and Public Laboratory for Open Technology and Society.” November 1<sup>st</sup>.
- 2013 University of California Davis, STS department: “Toward a Civic Technoscience: ExtrAct and Public Laboratory for Open Technology and Society”. October 16<sup>th</sup>
- 2013 University of California Irvine, “Science & Its Publics: Exploring Emergent Forms of Public Engagement” Talk title: “Toward a Civic Technoscience: ExtrAct and Public Laboratory for Open Technology and Society” October 8th

- 2013 Harvard University, Trace Metals Laboratory: “Toward a Civic Technoscience: ExtrAct and Public Laboratory for Open Technology and Society”
- 2013 “Toward a Civic Technoscience: ExtrAct and Public Laboratory for Open Technology and Society” Partnerships for Environmental Public Health (PEPH) conference. Innovative Technologies for Environmental Public Health Panel.
- 2013 Mentor/Advisor for Digital STS and Design Workshop, hosted at Harvard University, Arnold Arboretum. June 27-28
- 2012 Invited lecturer for Energy Decisions, Market and Policies, MIT: “From Social Media to Civic Technoscience ExtrAct and Public Laboratory for Open Technology and Society”:
- 2012 Technoscience Salon, Toronto University and York University. “Public Laboratory for Open Technology and Society: Developing alternative research ecologies for Environmental Investigation” Oct. 25<sup>th</sup>
- 2012 Digital STS Workshop, Copenhagen Denmark: “Public Laboratory for Open Technology and Science”. October 16<sup>th</sup>
- 2012 Technoscience as Activism Conference. RPI. Keynote Speaker with Shannon Dosemagen and Mathew Lippencott  
<http://www.3helix.rpi.edu/?p=2102>.
- 2012 "Heralds of Crisis: Ecological Risk and the Role of Sentinels", Borchard Foundation. Brittany, France.
- 2012 Philadelphia Science Festival: “Truth, Trust, Fracking” Panelist. Organized by Chemical Heritage Foundation, Temple University (libraries), Philadelphia Area Center for the History of Science, and the Wagner Free Institute of Science.
- 2012 Workshop for book “Oil Talk: Thinking and Retelling the Political and Cultural Economy of Oil and Gas” at Columbia University.
- 2012 2nd Annual Citizen Cyberscience Summit- Public Laboratory for Open Technology and Science: Open-source development of tools for grassroots science. University College London, United Kingdom - Shannon Dosemagen and Sara Wylie.
- 2011 MIT/Harvard University Joint conference: Anthropology as Cultural Critique: A Silver Anniversary Celebration. “Cultural Critique as Material and Textual Practice: Fieldnotes from Cultivating Civic Science and Action Amidst America’s Natural Gas Boom.”
- 2011 University of Pittsburgh “ExtrACT: Studying Chemicals and Corporations through STS in Practice”
- 2011 Presenter in Brown University Pembroke Center for Teaching and Research on Women Roundtable entitled: “The Power and Mystery of Expertise”
- 2011 “ExtrACT: Studying Chemicals and Corporations through STS in Practice” Colloquium Rensselaer Polytechnic Institute.
- 2011 Panelist for “Gasland” RPI's Department of Science and Technology Studies, Working Group on Sustainability Studies Screening.
- 2010 “ExtrACT: DIY corporate accountability.” DIY Citizenship: Critical Making and Social Media, University of Toronto.
- 2010 “ExtrACT: Studying Chemicals and Corporations through STS in Practice” Harvard STS Circle. Harvard Kennedy School of Business
- 2010 “Nomad Versus Royal Science: novel methodological perspectives on Art and Science” Making Science Visible. Rhode Island School of Design (RISD).

## Conference Talks

- 2016 Poster “Exploring required work and progress feedback in crowdsourced mapping” (Sofia Eleni Spatharioti\*, Rebecca Govoni, Jennifer Carrera, **Sara Wylie** and Seth Cooper) at Conference on Human Computation and Crowdsourcing (HCOMP).
- 2015 Panel Organizer and Speaker: on panel titled: From Endocrine Disruption to Fracking—Theo Colborn and Forging Collaborations Across Disciplines. Social Science Environmental Health Research Institute NIEHS sponsored conference: Social Science-Environmental Health Interdisciplinary Collaborations, Northeastern University, May 21-22
- 2015 Panel Organizer and Chair: “Fracking and Citizen Science: Bridging the Data Gap?”, talk title: New Tools for Detecting and Communicating Environmental Exposures and Risks associated with Oil and Gas Extraction. Society for Applied Anthropology, Pittsburgh, PA, March 24-25.
- 2015 Jacob Matz\* and **Sara Wylie**. Speck: Low Cost Air Monitoring for Individual and Community Action in the Marcellus Shale Region. Society for Applied Anthropology Annual Meeting, Pittsburgh, Pennsylvania. 2015
- 2015 Citizen Science Association Meeting, Panelist *Designing, Implementing, and Managing Citizen Science Projects*. Talk titled: Designing New Environmental Health Research Tools for Citizen Science February 11.
- 2014 Elisabeth Wilder\* and **Sara Wylie**. Community Monitoring of Hydrogen Sulfide in the Powder River Basin: A “Civic” Approach to Studying Environmental Health Hazards. Pacific Sociological Association 85<sup>th</sup> Annual Meeting. Portland, OR. 2014.
- 2013 “Toward a Civic Technoscience: ExtrAct and Public Laboratory for Open Technology and Society” for the Not Just Participation, Influence Panel. Society for the Social Studies of Science, Annual Meeting San Diego.
- 2013 “Toward a Civic Technoscience: ExtrAct and Public Laboratory for Open Technology and Society” for The Incorporation of Social Sciences in Environmental Health Sciences (EHS) Research Panel organized by Symma Finn and Thomas Arcury, Society for Applied Anthropology, Annual Meeting Denver.
- 2012 Panel Discussant for “Energy, Environment, Engagement: Anthropological Encounters with Hydraulic Fracturing” American Anthropological Association, Annual Meeting San Francisco.
- 2012 “Public Laboratory for Open Technology and Science: Open-source development of tools for grassroots science.” Society for Social Study of Science, Annual Meeting Copenhagen with Shannon Dosemagen.
- 2011 “Corporate Bodies and Chemical Bonds: How Oil Field Services Companies have produced new human health threats through interrelating science and security” for *Becoming Corporate* Panel organized by Suzana Sawyer and Hannah Appel. American Anthropology Association Annual Meeting, Montreal.
- 2011 “STS In Practice: Building Recursive Research Publics for Civic Science and Social Science” for *Digital STS* Panel organized by Kim Fortun. Society for Social Study of Science Annual Meeting, Cleveland.
- 2010 “ExtrAct: Changing the Dynamics of Extractive Industries through Collaborative Research” American Anthropological Association Annual Meeting, New Orleans.
- 2009 “ExtrAct: An STS remapping of natural gas development through participatory research” American Anthropological Association Annual Meeting, Philadelphia



- 2007 “Mimetic Designs Desires And Disorders: A Transformative History of Juvenile Hormone” Society for the Social Study of Science Annual Meeting, Montreal
- 2006 “Living the Landscape: Natural Gas Development and the Cultivation of Contested Diseases” Society for the Social Study of Science Annual Meeting, Vancouver
- 2005 “Becoming Beagle: Seeing a Disruptive System, Forming a Disruptive Science” Society for the Social Study of Science Annual Meeting, Pasadena

### **Exhibitions**

- 2017 Algal Bloom Mapping. Citizen Science Exhibit. *Cleveland Museum of Natural History*. With Sofia Eleni Spatharioti, Sara Wylie and Seth Cooper and Rafat Ansari.
- 2011 Public Laboratory: “Making Sense: Lab as Gallery as Field”. In *Field, Studio, Lab*. produced by Ethnographic Terminalia Show Montreal Canada.  
<http://ethnographicterminalia.org/>.
- 2011 “DIY Spectrometry” Trade School @ the Whitney Museum of American Art. New York, New York. <http://whitney.org/Events/TradeSchool>.
- 2011 “Northeast Corridor” by Sara Wylie and Chris Eichler, RISD Faculty Biennial.

### **Conference Planning**

- 2017 Society for the Social Studies of Science International Annual Conference, Boston, USA, August 30-Sept. 2nd. Making and Doing Gallery Show.
- 2017 “Teaching Climate, Inspiring Action” Conference at Northeastern University, March 24. Co-organized by Boston Civic Media.
- 2017 Data Rescue Boston: Northeastern University, in collaboration with Northeastern University Library March 24, 2017.
- 2016 National Institute for Environmental Health Science 50th Anniversary Festival. Planning Committee for Citizen Science and Community Engaged Research Session. Dec 5-8.
- 2016 Society for the Social Studies of Science International Annual Conference, Madrid Spain, Nov.
- 2015 Social Science Environmental Health Research Institute NIEHS sponsored conference: Social Science-Environmental Health Interdisciplinary Collaborations, Northeastern University, May 21-22.
- 2013 Workshop Organizer: “Grassroots Mapping and DIY Industrial Monitoring: Low Cost, Open Source techniques for Community Academic Collaboration in Environmental and Cultural Anthropology.” Anthropology and Environment Section. American Anthropological Association. Annual Meeting Chicago.
- 2013 Session Chair and Organizer: “Making Pollution Manifest”, with Max Liboiron. Society for the Social Studies of Science (4S) Annual Meeting San Diego.
- 2013 Workshop Co-Organizer: “Experiments Monitoring the Everyday: Art, Design, and DIY Methods for Environmental Health Research in STS” Society for the Social Studies of Science (4S) Annual Meeting San Diego.
- 2011 Public Laboratory for Open Technology and Science (PLOTS) First Annual Barnraising in Ashville North Carolina to develop technology and application for DIY near-infrared camera.
- 2011 Panel organizer for Society for the Social Study of Science Annual Meeting in Cleveland Ohio. Panel entitled: “STS in Practice: Science, Engineering and STS as Partners in Social Justice and Sustainability.”

- 2009 Panel organizer for Society for the Social Study of Science Annual Meeting in Washington DC. Panel entitled: “STS in Practice: Experimenting, Collaborating and Intervening”.
- 2009 Session Organizer for The Future of News and Civic Media Conference @ MIT. Sessions titled: “Evaluating Evaluation & Fielding Questions” and “We are Here - Mapping & Community”.
- 2008 Conceptualized and co-organized a cross-disciplinary conference entitled: “Disruptive Environments: Academics, Activists and Journalists in Conversation”. Chaired one of four graduate student developed panels entitled “Industrial Bodies: Connecting Fossil Fuels and Petrochemicals to Human Health and Industrial Environments”. The conference was held at MIT museum on April 10th and 11th 2008.
- 2005 Co-organized MIT-Cornell-RPI Science Technology and Society Annual Graduate Student Conference titled: “Papers, Practice and Process”.

## GRANTS AND FELLOWSHIPS

### External

#### Funded

- **Fall 2017.** “Developing community based visceral data performances for cross-disciplinary collaboration on environmental justice in Chelsea, MA.” **Center for Research on Environmental & Social Stressors in Housing Across the Life Course, Harvard School of Public Health and Boston University** (\$15,000)
- Spring 2017. Environmental Data and Governance Initiative (EDGI). **Doris Duke Charitable Trust.** (\$50,000)
- Spring 2017. Collaborative Website Monitoring, Analysis, and Strategic Communications to Protect Science Infrastructure under the Trump Administration. Environmental Data and Governance Initiative (EDGI) with Climate Central. **Packard Foundation** (\$75,000).
- Fall 2014-18. **Harvard School of Public Health.** “JBP Environmental Health Fellow” (\$350,000) PI.
- Spring 2014. **New World Foundation.** “Preparing Crowdsourced Disaster Response to Fracking Emergencies” (\$25,000) PI.
- Spring 2012. **Canaday Family Charitable Trust.** “Technology for Grassroots Action: Understanding Toxic Hazards and Promoting a Clean Environment” (\$45,000) Co-PI
- Fall 2011. **American Anthropological Association's Anthropology and the Environment Section.** “Affordable Hydrogen Sulfide Sensing for Gas Patch Safety” (\$2,000) PI
- Summer 2011. **John S. And James L. Knight Foundation.** “Knight News Challenge” Public Laboratory for Open Technology and Society (\$500,000) PI, foundational grant for Public Lab.
- Spring 2011. **Shpilman Institute for Photography Research Grant.** Public Laboratory for Open Technology and Science. Co-I

- Summer 2010. **Center for Future Civic Media**. ExtrAct Research Group. Funding for the ExtrAct Research Group, Co-PI.
- 2005-2007. **NSF Integrated Graduate Education and Research Traineeship (IGERT)**. MIT: Program on Emerging Technologies (PoET) Two years of fellowship funding for graduate training at MIT.

### **Pending**

- September NSF: **CHS-Small Data-Driven Retention in Crowdsourced Image Analysis and Mapping**, PI Seth Cooper and PI Sara Wylie (\$494,899)

## **Internal**

### **Funded**

- Spring 2016-Fall 2017. **NU Tier 1 Award Converge**: Community-sourced image analysis and mapping. (\$50,000) Co-PI.
- Spring 2014. **NU CSSH Research Development Initiative, Seed Funding**. “A Civic Alternative: D.I.Y. Hydrogen Sulfide Monitoring and Mapping” (\$5,000) PI
- Spring 2014. **NU Humanities Center Research Cluster Grant**. “Cross-disciplinary research group on Critical Making” (\$2,000) Co-Director with Prof. Ryan Cordell (English)
- 2013-2014. **Northeastern University Humanities Center**. “Viral Culture Fellowship”. One course release.
- Fall 2012. **NU Humanities Center Research Cluster Grant**. “Hydraulic Fracturing Working Group” (\$2,000) Co-Director with Prof. Len Albright (Sociology/Public Policy)
- Fall 2009 MIT John S. Hennessy Environmental Fellowship. (Tuition and Stipend)
- Summer 2009 Research Assistant MIT Center for Future Civic Media. (Tuition and Stipend)
- Spring 2008 Funding for the ExtrAct project research group from the MIT Center for Future
- Spring 2008 Research Assistant MIT Center for Future Civic Media.
- 2007-2008 MIT Martin Fellow for Sustainability.

### **Submitted but Unfunded Grants**

- 2017-2022. **NU Vision 2025**. “Civic Science and Environmental Monitoring Program” (\$4,365,595) Steering Committee Member.
- 2017. JPB Foundation. EDGI Environmental Data and Governance Initiative. Co-PI. (\$ 21,581.5 to Northeastern from total \$513,239.05)
- 2017-2020. **National Science Foundation**. “Collaborative Research: Standard Grant: Experiencing Exposures: Developing Engaged Research and Visceral Data to Express Embodied and Collective Environmental Health Risks” (\$257,396) PI.

## **TEACHING AND ADVISING**

### **Courses**

- *Community-Based Participatory Research (Sociology Graduate Methods)*

- Fall 2017 (7)
- *Environment, Technology and Society* NU CSSH.
  - Spring 2013 (23), Fall 2014 (18), Fall 2014 (10), Fall 2016 (23)
- *Community-Based Participatory Research* NU Bouve.
  - Summer 1 2013 (6)
- *Community and Public Health* NU Bouve.
  - Spring 2014 (17), Fall 2014 (18), Fall 2016 (48), Fall 2017 (19)
- Directed Study: *Hydraulic Fracturing and Unconventional Energy* (Sociology)
  - Fall 2013 (3) Graduate Students
- *Controversies in Science* NU CSSH.
  - Developed and on books but never taught.
- *ArtLab: Artistic Investigations into the Biological Sciences* Rhode Island School of Design.
- *Environmental Justice Research Cluster* Rhode Island School of Design.
- *Becoming Animal, Technical and Environmental: A practical course in disruptive Art and Design inspired by theory from Science and Technology Studies (STS)* Rhode Island School of Design. Spring 2010.
- *Independent Study* Rhode Island School of Design.

#### **Graduate Student Advising Sociology**

- Mathew Judge, “Biomonitoring Report Back of an emerging contaminant in Little Hocking Water District” PhD Northeastern University Sociology Department. 2015.
- Lauren Ritcher. Graduate Environmental Sociology Field Statement Committee. 2015
- Mia Renault, Graduate Environmental Sociology Field Statement Committee. 2017
- Elisabeth Wilder, Graduate Student, Research Assistant, Hydrogen Sulfide Project, 2014
- Jacob Matz, Graduate Student, Research Advisor, Speck Community Air Monitoring Project, 2013-2015
- Lourdes Vera, Graduate Student, Primary Advisory and Research Assistant, Hydrogen Sulfide Project 2015-Present
- Taylor Braswell, Graduate Student, Research Assistant, Hydrogen Sulfide Project 2017-Present
- Jamie San Andres, Masters student, research assistant, Petcoke Mapping Project Chicago Il. Summer 2015

#### **Graduate Student Advising Health Sciences**

- Jeannate Lowe Masters of Public Health
- Angela Sullivan Masters of Public Health
- Susannah Franco (PharmD/MPH)
- Kaitlyn Gervera, Master of Public Health Research Practicum Citizen Science Project Thermal Fishing Bob

#### **Graduate Student Advising Computer Science**

- Sophie Spatharioti, Graduate Student in Computer Science. Cartoscope Project with Seth Cooper. 2016-present.

### **Post Doctoral Fellows Mentorship**

- Dvera Saxton, 2014-2015 Paper Development and Job Talk Development
- Max Liboiron, 2014-2015, Thermal Fishing Bob Research
- Jennifer Carrera, 2015-2016 Cartoscope Research
- Maryann Cairns, 2015 Research Advice and Collaborative Water Monitoring Projects

### **Undergraduate Research Advising**

#### *Hydrogen Sulfide Research project:*

- Christine Long (Health Science) COOP January 2017-June 2017
- Erik Hanley (Health Science) COOP June 2016-December 2016
- Anna Walsh (Environmental Science) COOP June 2016-December 2016
- Kaya Simmon (Sociology) Research Assistant 2014 and COOP 2015
- Brian Clark (Health Science) Capstone Research Project, 2013.
- John Syzonenko Research Assistant (Environmental Science) September 2017-Present
- Viktoriya Abakumova (Computer Science and Business), September 2017-Present
- Haley Stiel (CAMD) September 2017-December 2017
- Shawn Sullivan (Architecture) Research Assistant summer 2016
- Sarah Brooks (Environmental Studies and International Affairs) Research Assistant summer 2016

#### *Cartoscope:*

Rebecca Govoni (Engineering) Spring 2015 to December 2016.

#### *Self-Directed Research:*

Hannah Gartner. "Bridging the Gap: The facilitation of changes in attitude towards environmental issues" Northeastern RISE 2014

### **Undergraduate Research Groups**

- Hydraulic Fracturing Research Group with Len Albright (Sociology) Fall 2014
  - 8 undergraduate researchers.
- Husky Environmental Action Team—Collaborative Thermal Imaging Project with Mare Liberum Fall 2015.
- Advisor to Undergraduate Health Sciences Research Coalition (Health Sciences) Spring 2017-Present

### **Graduate Student Advising RISD**

- Jan Mun, "The Providence Yard" MA RISD Digital+Media Department, Masters Thesis Committee Member. 2010.
- Jae Ok Lee, "Hybrid Gaze; Digital Artifacts and Memory" MA RISD Digital+Media Department, Masters Thesis Committee Member. 2011.

## **PROFESSIONAL ACTIVITIES**

### **Service to the Institution**

### **Northeastern University**

- A. Departmental Service-Sociology
  - a. Undergraduate Committee in Sociology/Anthropology 2014-Present
  - b. Health and Environment Cluster Committee Sociology/Anthropology 2014-Present
  - c. Ad Hoc Member Admissions Committee 2013-2015
- A. Department Service-Health Science
  - a. Undergraduate committee Member 2015-Present
  - b. Merit Review committee 2016-2017
- B. University Service
  - a. Social Science Environmental Health Research Institute Steering Committee.

### **Rhode Island School Design**

- 2011. Visiting Critic for end of semester critiques for Innerspace/Outerspace Course in Digital+Media at RISD and Affective Geographies Course in Digital+Media at RISD.
- 2010. Visiting Critic for RISD Digital+Media Midterm critiques.

### **Service to the Discipline**

- 2016-Present. Chair of *Society for the Social Studies of Science*, “Making and Doing Committee.” Responsible for directing the Society’s Making and Doing gallery show and award for 2017 international conference in Boston.
- 2017-2018 Carson Prize Committee for Outstanding Book in STS and the Environment. *Society for the Social Studies of Science*
- 2016-2017 Mullin’s Prize Committee for Outstanding Graduate Student Publication in STS, *Society for the Social Studies of Science*
- 2015-Present. Council Member. *Society for the Social Studies of Science*. Elected position for three year term.
- 2015-Present. Associate Editor, *Signs: Journal of Women Culture and Society*.
- 2015-Present. Steering Member Boston Civic Media Consortium & Network.
- 2014. External Reviewer for Environmental Protection Agency (EPA): Pathfinder Innovation Projects competition.
- 2014. Society for the Social Studies of Science (4S), “Making and Doing Committee on Critical Participation.”

### **Occasional Referee-Peer Review**

- *Environmental Health Perspectives*
- *Science as Culture*
- *Social Studies of Science*
- *Signs: Journal of Women Culture and Society*
- *Culture, Theory and Critique*
- *Citizen Science: Theory and Practice*

### **Service to the Community**

- 2017-Present. Founding member and Steering Committee Member of Environmental Data and Governance Initiative (EDGI).
- 2013-Present. Public Laboratory Organizer.
- 2012-2016. Board of Directors FracTracker.org.
- 2012. Consultant, Public Laboratory for Open Technology and Science.

### **Professional Development**

- 2011. Oil and Gas Research Intern, Environmental Working Group.
- Professional Memberships
  - Society for the Social Study of Science (4S)
  - American Anthropological Association
  - Society for Applied Anthropology
  - Society for Cultural Anthropology