

Kirk Jalbert

Curriculum Vitae, June 2017

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EDUCATION

Doctor of Philosophy, Rensselaer Polytechnic Institute, Science and Technology Studies, 2015.

Master of Fine Arts, Tufts University School of the Museum of Fine Arts, 2005.

Bachelor of Science, Worcester Polytechnic Institute, Computer Science, 1998.

PROFESSIONAL APPOINTMENTS

FracTracker Alliance, Pittsburgh PA

Aug. 2015-present Manager of Community-Based Research & Engagement

2013-2015 Visiting Research Scientist

Drexel University, Philadelphia PA

Oct. 2015-present Visiting Research Professor, Center for Science, Technology and Society,
Department of History and Politics

Pennsylvania Department of Environmental Protection, Harrisburg PA

Jan. 2016-present Appointed Member, Environmental Justice Advisory Board

Rensselaer Polytechnic Institute, Troy NY

2011-2013 Research Assistant, *Watershed Knowledge Mapping Project*

2010-2011 Project Leader, *Culturally Situated Community Sensing*, GK-12 Triple-Helix

Spring 2011 Teaching Assistant, *Science, Technology, and Society*

Fall 2010 Teaching Assistant, *Design and Innovation Studio V*

Summer 2010 Research Assistant, *Culturally Situated Design Tools*

Clark University, Worcester MA

2004-2009 Instructor, Culture Studies and Communication Program

2002-2009 Instructor, Department of Visual and Performing Arts

2007-2009 Director, Schiltkamp Gallery, Traina Center for the Arts

Tufts University School of the Museum of Fine Arts, Boston MA

2004-2006 Instructor, Spatial Arts Studios

2003-2004 Teaching Assistant, Media Arts Studios

PUBLICATIONS

Books

Jalbert, Kirk, Anna Willow, David Casagrande, and Stephanie Paladino, eds. (2017). *ExtrACTION: Impacts, Engagements, and Alternative Futures*. London/New York: Routledge.

Refereed Journal Articles

Jalbert, Kirk, Samantha Malone Rubright, Karen Edelstein. (forthcoming). "Civic Science Mediations: Enabling Knowledge Exchanges in Working with Communities to Understand Oil & Gas Industry Impacts," *Engaging Science, Technology, and Society (ESTS)*.

Brasier, Kathy, **Kirk Jalbert**, Abby J. Kinchy, Colleen Unroe, Susan Brantley. (2017). "Sharing Water Quality Data among Public Agencies, Citizen Scientists, Researchers, and Private Industry: Experiences from the Shale Network," *Journal of Environmental Planning and Management*, 1-19.

Jalbert, Kirk. (2016). "Grassroots Infrastructures for Civil Society Science: A Case Study of the Marcellus Shale Water Monitoring Community," *Science & Technology Studies*, 29(2).

Kinchy, Abby J., Sarah Parks, and **Kirk Jalbert**. (2015). "Fractured Knowledge: Mapping the Gaps in Public and Private Water Monitoring Efforts in Areas Affected by Shale Gas Development," *Environment and Planning C: Government and Policy*.

Jalbert, Kirk, and Abby J. Kinchy. (2015). "Sense and Influence: Environmental Monitoring Tools and the Power of Citizen Science," *Journal of Environmental Policy & Planning*, 1-19.

Malone, Samantha, Matthew Kelso, Ted Auch, Karen Edelstein, Kyle Ferrar, and **Kirk Jalbert**. (2015). "Inconsistencies with Data from Unconventional Gas and Oil Basins," *Journal of Environment Science and Health, Part A*, 50(5):489-498.

Kinchy, Abby J., **Kirk Jalbert**, and Jessica Lyons. (2014). "What is Volunteer Water Monitoring Good For? Fracking and the Plural Logics of Participatory Science," *Political Power and Social Theory*, 27: 259-289.

Jalbert, Kirk, Abby J. Kinchy, and Simona Perry. (2014). "Civil Society Research and Marcellus Shale Natural Gas Development: Results of a Survey of Volunteer Water Monitoring Organizations," *Journal of Environmental Studies and Sciences*. Volume 4(1): 78-86.

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.

Ratto, Matt, Sara Wylie, and **Kirk Jalbert**. (2014). "Introduction to the Special Forum on Critical Making as Research Program," *The Information Society*, 30:2.

Book Chapters

Jalbert, Kirk, Anna Willow, David Casagrande, and Stephanie Paladino. (2017). "Introduction: Confronting Extraction, Taking Action," in K. Jalbert, A. Willow, D. Casagrande, and S. Paladino, eds., *Extraction: Impacts, Engagements, and Alternative Futures*. London/New York: Routledge.

Non-Refereed Publications

Jalbert, Kirk. (2016). "Mobilizing Research for Action: Social Responsibility Meets Industrial-Scale Extraction," *Practicing Anthropology*, 38(3): 65–67.

Jalbert, Kirk. (2011). "Culturally Situated Sensing: Peer Innovation and Citizen Sensing in Native American Communities," Commissioned paper on Technology and Social Participation. Intel Corporation, Experience Insight Lab.

AUTHORED GRANTS

"Supporting Public Understanding of Ethane-Based Industry Buildout in Southwestern Pennsylvania," Colcom Foundation, \$55,000. Awarded to the FracTracker Alliance, May 2017.

"Empowering California and Colorado Communities to a Better Energy Future," 11th Hour Project (co-authored), \$200,000. Awarded to the FracTracker Alliance, February 2017.

"The Susquehanna Impacts Project," The Foundation for Pennsylvania Watersheds, \$20,000. Awarded to the FracTracker Alliance, May 2016.

"A Proposal to Obtain, Map, and Analyze Oil and Gas Lease Data in Allegheny County, Pennsylvania," The Heinz Endowments, \$46,000. Awarded to the FracTracker Alliance, January 2016.

"Drilling into Monitoring: Building a Watershed-Based FracTracker Interactive Map and Digital Storytelling Series," The Colcom Foundation, \$53,000. Awarded to the FracTracker Alliance, July 2014.

"Promising Data for Public Empowerment: A Study of Grassroots Water Monitoring Practices for Pollution from the Natural Gas Industry," Rensselaer Polytechnic Institute School of Humanities, Arts, & Social Sciences Fellowship, \$49,000. September 2013.

"Socio-Technical Practices in the Context of Marcellus Shale Water-Quality Science," National Science Foundation Doctoral Dissertation Improvement Grant (Award #1331080), \$15,000. September 2013.

"Culturally Situated Sensing: Peer Innovation and Citizen Sensing in Native American Communities," Intel Corporation, Experience Insight Lab Technology & Social Participation Writing Commission, \$2,500. March 2011.

REFEREED CONFERENCE PRESENTATIONS

"Routes to Data Rights: Information Transparency in Pennsylvania's Pipeline Debates," presented at the Data Power Conference, Ottawa, Ontario, Canada, June 2017.

“Public Engagement in Extraction Transparency: Sharing Knowledge through the FracTracker Alliance,” presented at the Citizen Science Association Conference, St. Paul, Minnesota, May 2017.

“The Allegheny County Lease Mapping Project: The Power to Plan Through Accessible Oil & Gas Leasing Data,” presented at the meeting of the American Association of Geographers, Boston, MA, April 2017.

“Intersectional Environmental Justice and the US Shale Gas Industry: Bridging the Rural-Urban Divide,” presented at the International Symposium on Society and Resource Management, Michigan Technological University, Houghton, MI, June 2016.

“Revealing the Risks of Oil and Gas Extraction at the Intersection of Research, Public Participation, and Environmental Communication,” presented at the meeting of the Association for Environmental Studies and Sciences, Washington, DC, June 2016.

“Data Culture and the Problems of Representations in Participatory Environmental Science,” presented at the meeting of the American Anthropological Association, Denver, CO, November 2015.

“Data Publics as Information Advocates: Demanding Transparency in the Management of the Oil and Gas Industry,” presented at the meeting of the Society for the Social Studies of Science, Denver, CO, November 2015.

“Knowing Our Waters: Citizen Science and Digital Storytelling,” presented at the meeting of the Society for Applied Anthropology, Pittsburgh, PA, March 2015.

“Grassroots Infrastructures for Civil Society Science: A Case Study of the Marcellus Shale Water Monitoring Community,” presented at the meeting of the American Anthropological Association, Anthropology & Environment Section’s Rappaport Prize Panel, Washington, DC, December 2014.

“Scientific Citizenship or Instrumental Environmentalism: Interventions of Technoscientific vs. Sociopolitical Knowledge in Working to Understand Natural Gas Extraction Impacts,” presented at the meetings of the Society for Cultural Anthropology, Detroit, MI, May 2014.

“Scientific Narratives for Public Empowerment: Institutional Reconstructions of Volunteer Water Monitoring Knowledge in Natural Gas Extraction Communities,” presented at the meeting of American Anthropological Association. Chicago, IL, November 2013.

“Promising Data for Public Empowerment: Grassroots Water Monitoring for Pollution from the Natural Gas Industry,” presented at the meeting of Society for Social Studies of Science. San Diego, CA, October 2013.

“What is Volunteer Water Monitoring Good For? Fracking and the Plural Logics of Participatory Science,” Co-presented with Abby J. Kinchy at the meetings of the Society for Social Studies of Science. San Diego, CA, October 2013.

“Ignorance about the Impacts of Shale Gas Development: A Study of Spatial Knowledge Gaps,” Co-presented with Abby J. Kinchy at the meeting of American Sociological Association, New York, NY, August 2013.

“Volunteer Monitoring for Watershed Sustainability: Making Environmental Sense of Natural Gas Extraction Impacts in the Marcellus Shale,” presented at the Sensing Environments Festival, Rensselaer Polytechnic Institute, Troy, NY, April 2013.

“Civic Technoscience for Surface Water Quality: The Rise of Volunteer Watershed Monitoring in the Marcellus Shale Natural Gas Boom,” presented at the meeting of the Society for Applied Anthropology, Denver, CO, March 2013.

“Frames, Layers, and Subjective Ecologies: Cinematic Constructions and Geographic Information Systems,” presented at the High-Tech Heritage Conference, University of Massachusetts, Amherst, MA, May 2011.

“Ways of Practice in Participatory Sensing: Indigenous Knowledge Systems and Culturally Situated Design,” presented at the meeting of Society for Social Studies of Science, Cleveland, OH, November 2011.

“Social Networking Nature: Publicly Defined Environments in Privatized Participatory Sensing,” presented at the meeting of American Anthropological Association, Montreal, Quebec, Canada, November 2011.

“Culturally Situated Sensing: Participatory Design and Citizen Sensing in Native American Communities,” presented at the Political Sociology of Science and Technology Conference, Rensselaer Polytechnic Institute, Troy, NY, April 2011.

INVITED TALKS

“Building Infrastructures for a Civic Information Science: Studies in Data for Empowerment,” Cyberlaw Clinic, Berkman Klein Center for Internet & Society, Harvard University, Cambridge, MA, April 2017.

“Building Infrastructures for a Civic Information Science: Studies in Data for Empowerment,” School for the Future of Innovation in Society, Arizona State University, Tempe, AZ, April 2017.

“FracTracker Tools and Resources for Civic Engagement,” Philadelphia Futures Energy Summit, Drexel University, Philadelphia, PA, November 2016.

“Assessing Environmental Justice in PA Oil & Gas Communities,” School of Social Work, University of Pittsburgh at Johnstown, Johnstown, PA, October 2016.

“Building Capacity to Understand the Impacts of Unconventional Oil & Gas Development,” Stop the Frack Attack Summit, Denver, CO, October 2015.

“Knowing Our Waters,” Northern Appalachian Network, California University of Pennsylvania, California, PA, September 2015.

“Energy Wise: Citizen Scientists and Open Data,” Shifting Energy Cultures Speaker Series, Center for Science, Technology & Society, Drexel University, Philadelphia, PA, May 2015.

“Building an Appalachian Agenda for Economic and Environmental Justice,” roundtable discussant, Society for Applied Anthropology, Pittsburgh, PA, March, 2015.

“Working with Data, Maps, and Participatory GIS Research to Understand the Impacts of Oil and Gas Extraction,” Democratizing Technologies: Assessing the Roles of NGOs in Shaping Technological Futures, Center for Nanotechnology in Society, University of California, Santa Barbara, CA, November 2014.

“Building Infrastructures for Civil Society Science: A Study of Data and Empowerment,” colloquium speaker, Department of Science and Technology Studies, Rensselaer Polytechnic Institute, Troy, NY, September 2014.

“Knowing our Waters: Making Sense of Data Narratives in the Marcellus Shale Water Monitoring Community,” The Western Pennsylvania Conservancy, Pittsburgh, PA, August 2014.

“Fracking in Pennsylvania,” discussion panelist, NEW Leadership Institute. Center for American Women and Politics, Chatham University, Pittsburgh, PA, June, 2014.

“Analyzing Appropriate Data, and What Should be the Roadmap for the Future,” discussion panelist, Shale Network Workshops, Penn State University, State College, PA, May, 2014.

“Collaborative Efforts for Capacity Building Across the Marcellus Shale Water Monitoring Community,” Second Annual Sierra Club NY Water Sentinels Summit, Binghamton University, Binghamton, NY, April 2014.

“ExtrACTION Roundtable: Anthropology, Extractive Industries, and Unconventional Energy,” discussion panelist, meeting of American Anthropological Association. Chicago, IL, November, 2013.

“Living in a Fracked World: Differential Effects of Shale Gas Development on Rural, Peri-urban and Urban Ecologies,” discussion panelist, meeting of the Association for Environmental Studies and Sciences. Duquesne University, Pittsburgh, PA, June, 2013.

“Watershed Knowledge Mapping Project: Investigating Efforts to Monitor the Water Quality Impacts of Marcellus Shale Development,” First Annual Sierra Club NY Water Sentinels Summit. Binghamton University, Binghamton, NY, January 2013.

“Sociopolitical Dynamics of Volunteer Watershed Monitoring in the Marcellus Shale Natural Gas Boom,” Boom & Bust Symposium, Duquesne University, Pittsburgh, PA, November 2012.

CONFERENCE SESSIONS ORGANIZED

“Extraction: Impacts, Engagements and Alternative Futures,” roundtable session organized at the meeting of the Society for Applied Anthropology, Vancouver, British Columbia, Canada, April 2015.

“Narratives of Empowerment in the Scientific Governance of Environmental Risk,” panel session organized at the meeting of the American Anthropological Association, Denver, CO, November 2015.

“Extraction: Impacts, Engagements and Alternative Futures,” roundtable session organized at the meeting of the American Anthropological Association, Denver, CO, November 2015.

“Communicating the Impacts of Gas Extraction in Film, Photography, and Digital Storytelling,” panel session organized at the meeting of the Society for Applied Anthropology, Pittsburgh, PA, March 2015.

“New Data Relationalities: Publics, Practices, and Subjectivities in Public Health and Environmental Governance,” panel session organized at the meeting of the Society for Social Studies of Science, San Diego, CA, November 2013.

“Digital STS,” panel session co-organized at the meetings of the Society for Social Studies of Science, Cleveland, OH, November 2011.

INVITED WORKSHOPS

“Engaging the Public: Best Practices for Crowdsourcing Across the Disciplines,” The Crowd Consortium. University of Maryland, College Park, MD, May 2015.

“Grassroots Network Workshops,” Cary Institute of Ecosystem Studies. Millbrook, NY, November 2014.

“Conceptualizing Environmental Exposure: From Data to Decisions,” Drexel University Center for Science, Technology & Society and the Chemical Heritage Foundation. Philadelphia, PA, April 2014.

“Infrastructural Worlds: A Workshop on Ethnographic Studies of the Built Environment,” Duke University, Cultural Anthropology Department. Durham, NC, March 2014.

MEDIA COVERAGE

“Many Allegheny County cities, municipalities unprepared for shale gas drilling rebound,” *The Pittsburgh Post-Gazette*, May 30, 2017.

“Environmental justice in the fracking era,” *The Allegheny Front*, July 15, 2016.

“Oil and gas endangers neighborhood Hispanic children,” *Entravision.com*, July 12, 2016.

“Don’t frack the rich? Comment puts focus on environmental justice,” *NPR State Impact*, June 6, 2016.

“Lack of action from state and federal government means that community organizations are picking up the slack of monitoring the effects of fracking in the Northeast,” *American Politics and Policy Blog, London School of Economics*, February 26, 2016.

“Stop the Frack Attack,” *EcoWatch*. October 12, 2015.

“Tracking Frackers from the Sky: Citizen scientists eyeing Pennsylvania’s natural gas drillers in aerial images may help determine if there is a link between fracking and certain illnesses,” *Smithsonian.com*. November 10, 2014.

“Collection of ‘big data’ by citizens helps shape debate on Marcellus Shale fracking,” *Bloomberg Water Law & Policy Monitor*, January 17, 2014.

AFFILIATIONS & SERVICE

Professional Membership

American Anthropological Association (Anthropology & Environment section)

American Sociological Association (Science Knowledge and Technology section)

Association for Environmental Studies & Sciences

Citizen Science Association
Society for Applied Anthropology (ExtrACTION Topical Interest Group)
Society for Social Studies of Science

Professional Service

Program Committee, Society for Applied Anthropology, 2014-2016
Publishing Committee, Science Knowledge and Technology section of the ASA, 2014-2015
Planning Committee, Penn State University Shale Network, 2013-2015
Sustainability Task Force, Rensselaer Polytechnic Institute, 2012-2013
Faculty Advisor, Media Arts Residence House, Clark University, 2006-2009

Peer Reviewer

Grant Reviewer: National Science Foundation, Science, Technology and Society, Division of Social and Economic Sciences
Manuscript Reviewer: *Environmental Sociology*; *Science as Culture*; *Middle State Geographer*

Community Service

Grassroots Grantmaking Committee, Neighborhood Allies, Pittsburgh, PA, 2016-2017
Advisory Board, EcoDistrict Plan Air Quality Study, Millvale, PA, 2016-2017
Topical Advisory Group, CREATE Lab Data Fluency Project, Carnegie Mellon University, 2016-2017
Scientific Advisory Committee, Sierra Club New York Water Sentinels, 2012-2015
Water Monitoring Coordinator Group, Foundation for Pennsylvania Watersheds, 2013-2015

TEACHING

Rensselaer Polytechnic Institute

Science and Technology Studies Department

(TA) Science, Technology and Society (Spring 2011)
(TA) Design and Innovation Studio V (Fall 2010)

Clark University

Culture Studies and Communication Program

Anime Seminar (Spring 2009)
Image Theory (Fall 2004; Spring 2005-2009)
History of American Broadcasting and Electronic Media (Fall 2007, 2008)
Computer Mediated Communications (Spring 2005; Fall, 2005-2008)

Visual and Performing Arts Department

Digital Imaging (Spring, 2004-2009)
Introduction to Photography (Fall, 2002-2008)
Sculpture and the Found Object (Fall 2006, Spring 2007)
Studio Topics Senior Seminar (Fall 2005)

Tufts University School of the Museum of Fine Arts

Electronic/Kinetic Media (2004-2006)
(TA) Advanced New Media Seminar (Fall 2003, Spring 2004)