

JASON A. DELBORNE

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EDUCATION

- Ph.D. **University of California, Berkeley** 2005
Environmental Science, Policy and Management (ESPM)
Dissertation: *Pathways of Scientific Dissent in Agricultural Biotechnology*
Jeffrey Romm (chair), Jean Lave, Charis Thompson, and David Winickoff
- A.B. **Stanford University** 1993
Program in Human Biology, degree conferred with distinction

ACADEMIC POSITIONS

- Associate Professor of Science, Policy, and Society** 2013-
Department of Forestry and Environmental Resources
Chancellor's Faculty Excellence Program – Genetic Engineering and Society
North Carolina State University (tenured in 2016)
- Faculty Affiliate**, Center for Science and Technology Policy Research 2012-
University of Colorado at Boulder
- Faculty Affiliate**, Consortium for Science, Policy, and Outcomes 2011-
Arizona State University
- Assistant Professor**, Division of Liberal Arts and International Studies 2008-13
Colorado School of Mines
- **Honors Faculty**, McBride Honors Program in Public Affairs 2012-13
 - **Assistant Director**, Master's Program in International Political Economy of Resources 2011-13
- Postdoctoral Research Associate**, Holtz Center for Science and Technology Studies 2008
University of Wisconsin-Madison
- Postdoctoral Fellow in Science & Society**, National Science Foundation 2006-07
University of Wisconsin-Madison, Department of Rural Sociology (Daniel Kleinman, mentor)

HONORS AND AWARDS

- Faculty Research and Professional Development Award – NC State University 2015
- David Edge Prize – Society for Social Studies of Science (4S). “Awarded annually for the best article in the area of science and technology studies.” 2010
- Environmental Public Policy and Conflict Resolution Dissertation Fellowship – Morris K. Udall Foundation 2004
- Switzer Environmental Fellowship – Robert and Patricia Switzer Foundation 2002

GRANTS

- PI** National Science Foundation (NSF) – “Restoring Biotechnology’s Moral Fiber? Genetically Modified American Chestnut Trees, Responsible Innovation, and Environmental Justice,” Aug 2016-Jul 2019 (SES-1632670: \$320,000 including external collaborators; \$291,974 awarded directly to NCSU).
- PI** United States Army Corps of Engineers – “Synthesizing Engagement for Synthetic Biology: Ethical and Social Considerations Surrounding the Environmental Impact of Synthetic Biology,” Jul 2017-Jul 2018 (\$74,988).
- Co-PI** Defense Advanced Projects Agency (DARPA) – “Restoring Ecosystems and Biodiversity through Development of Safe and Effective Gene Drive Technologies,” May 2017-Apr 2019 (Phase I: \$3,199,440 including collaborators; \$936,603 awarded directly to NCSU).
- Co-PI** United States Department of Agriculture, National Institute of Food and Agriculture (USDA-NIFA) – “Municipal Wastewater Application To Forests: Participatory Science To Understand Human Exposure And Risks To Chemical Contaminants Of Concern,” May 2016-Apr 2020 (\$484,990).
- Co-PI** United States Department of Agriculture, National Institute of Food and Agriculture (USDA-NIFA) – “Assessing Public Perceptions of Gene Drives for Invasive Species and Pest Control,” Jul 2017-Jun 2018 (\$100,000).
- Co-I** National Science Foundation (NSF) – “CCE STEM: Comparing Cultures of Responsible Innovation across Bioengineering,” Jan 2016-Dec 2018 (\$350,000).
- Co-PI** National Science Foundation (NSF) – “Making Wearable Health Platforms and Technologies a Reality: Four Workshop Proposals that Enhance and Broaden ASSIST’s Vision and Mission Communities,” Jan 2016-May 2017 (\$143,142).
- PI** Environmental Protection Agency (EPA) – “Stakeholder Workshop: Issue Framing and Public Engagement for GM Algae Guidance,” Sep 2016-Mar 2017 (\$8,675).
- PI** North Carolina State University, College of Natural Resources – “A Forest in These Trees? An Exploratory, Comparative Analysis of Public Engagement and Diversity in the Case of Genetically Modified Trees,” Faculty Research and Professional Development Award, Jul 2015-Jun 2016 (\$7,500).
- Co-PI** United States Department of Agriculture, Animal and Plant Health Inspection Service (USDA-APHIS) – “USDA Stakeholder Workshop on Coexistence of Genetically Engineered and Conventional Crops,” Mar 2015-Jun 2015 (\$30,676).
- PI** Genetic Engineering and Society Center – “Anticipatory Translation: Scientists, Genetically-Modified Trees, and Conceptualizations of Technological, Regulatory, and Cultural Futures,” Jun 2014-Aug 2014 (\$20,000).
- Co-PI** National Science Foundation, Partnerships for International Research and Education [NSF-PIRE] – “Advancing Earth Dam and Levee Sustainability through Monitoring Science and Condition Assessment,” Oct 2012-Jun 2013 (OISE-1243539: \$2,750,908).
- Co-PI** National Science Foundation, Nanotechnology Undergraduate Education [NSF-NUE] – “Nano-Science, Technology, Ethics, and Policy (NanoSTEP),” Oct 2011-Jun 2013 (EEC-1138257: \$200,000).

- Co-PI** National Science Foundation, Integrative Graduate Education and Research Traineeship [NSF-IGERT] – “Intelligent Geosystems (SmartGeo),” Jul 2008-Jul 2013 (NSF-0801692: \$3,000,000).
- Project Participant** National Academy of Engineering – “Partnership for Education on Climate Change, Engineered Systems, and Society,” Oct 2010-Oct 2012 (NAE-P210964: \$1,000,000).
- Co-PI** National Science Foundation (NSF) – “World Wide Views on Global Warming: Process and Impact,” Sep 2009-Jun 2012 (SES-0925043: \$234,955).
- Co-PI** Trefny Institute for Educational Innovation, Curriculum and Development Program – “Climate Change and Water Systems: Integrating Technical, Social, Political, Economic, and Ethical Issues,” Summer 2011 (\$4,786).
- PI** Trefny Institute for Educational Innovation, Curriculum and Development Program – “Taking the Next STEP for Policy Initiatives at CSM: Developing the LAIS Minor and ASI in Science, Technology, Engineering, and Policy (STEP),” Summer 2010 (\$4,984).
- PI** Trefny Institute for Educational Innovation, Curriculum and Development Program – “Introduction to Science, Technology, and Engineering Policy,” Summer 2009 (\$4,559).
- Co-PI** National Science Foundation (NSF), Postdoctoral Fellowship in Science and Society – “In the Wake of Scientific Controversy: The ‘Chilling’ of Scientific Dissent in Agricultural Biotechnology?” Jan 2006-Dec 2007 (SES-525104: \$84,000).

PUBLICATIONS

Edited Volumes, Special Issues, and Books

- 2018 **Delborne, J.A.**, Kuzma, J., Gould, F., Frow, E., Leitschuh, C. *, and Sudweeks, J.* (Eds.), Roadmap to Gene Drives: Research and Governance Needs in Social, Political, and Ecological Contexts [special issue], *The Journal of Responsible Innovation*, 5 (sup1). Routledge/Taylor and Francis.
- 2016 National Academies of Sciences, Engineering, and Medicine. *Gene Drives on the Horizon: Advancing Science, Navigating Uncertainty, and Aligning Research with Public Values*. Washington, D.C.: National Academies Press. [appointed committee member and co-author of peer-reviewed report]
- 2010 Kleinman, D.L., **Delborne, J.A.**, Cloud-Hansen, K., and Handelsman, J. (eds.). *Controversies in Science and Technology, Volume 3: From Evolution to Energy*, New Rochelle, NY: Mary Ann Liebert, Inc.

Peer-Reviewed Articles and Book Contributions

- 2018 Kuzma, J., Gould, F., Brown, Z., Collins, J., **Delborne, J.**, Frow, E., Esvelt, K., Guston, D., Letischuh, C., Oye, K., and Stauffer, S. A roadmap for gene drives: Using institutional analysis and development to frame research needs and governance in a systems context. *Journal of Responsible Innovation*, 5 (sup1), 13–39.
<https://doi.org/10.1080/23299460.2017.1410344>
- 2017 Adelman, Z., Akbari, O., Bauer, J., Bier, E., Bloss, C., Carter, S. R., Callender, C., Denis, A.C., Cowhey, P., Dass, B., **Delborne, J.**, Devereaux, M., Ellsworth, P., Friedman, R.M., Gantz, V., Gibson, C., Hay, B.A., Hoddle, M., James, A.A., James, S., Jorgenson, L.,

- Kalichman, M., Marshall, J., McGinnis, W., Newman, J., Pearson, A., Quemada, H., Rudenko, L., Shelton, A., Vinetz, J.M., Weisman, J., Wong, B., Wozniak, C. Rules of the road for insect gene drive research and testing. *Nature Biotechnology*, 35(8), 716–718. <https://doi.org/10.1038/nbt.3926>
- 2016 **Delborne, J.A.** Suppression and Dissent in Science. In T. Bretag (Ed.), *Handbook of Academic Integrity* (Section IX, pp. 943-956). Singapore: Springer Reference. https://doi.org/10.1007/978-981-287-098-8_30.
- 2016 Kaebnick, G. E., Heitman, E., Collins, J. P., **Delborne, J. A.**, Landis, W. G., Sawyer, K., Tanneyhill, L., Winickoff, D. E. Precaution and governance of emerging technologies. *Science*, 354(6313), 710-711. <https://doi.org/10.1126/science.aah5125>
- 2016 Kimmel, S.*, Toohey, N.*, & **Delborne, J.** Roadblocks to Responsible Innovation: Exploring technology assessment and adoption in U.S. Public Highway Construction. *Technology in Society*, 44, 66-77. doi: 10.1016/j.techsoc.2015.12.002.
- 2015 Kimmel, S. *, Toohey, N. *, & **Delborne, J.** Innovation at the Crossroads: Exploring the Intersection of Innovation Adoption and Specification Reform in Public Highway Construction. *Transportation Research Circular* (Vol. E-C199, pp. 9-18). Washington, D.C.: Transportation Research Board.
- 2014 **Delborne, J.A.** Navigating Controversies in Search of Neutrality: Analyzing Efforts by Public Think Tanks to Inform Climate Change Policy. In D.A. Crow and M. Boykoff (Eds.), *Culture, Politics, and Climate Change: How Information Shapes our Common Future* (pp. 163-179). New York, NY: Routledge/Earthscan.
- 2014 Bouchey, M. *, and **Delborne, J.** Redefining safety in commercial space: Understanding debates over the safety of private human spaceflight initiatives in the United States. *Space Policy*, 30(2), 53–61. doi:10.1016/j.spacepol.2014.03.002
- 2014 Evans, S. W., Jasanoff, S., Calvert, J., **Delborne, J.**, Doubleday, R., Frow, E., Funtowicz, S., Green, B., Guston, D.H., Hurlburt, B., Irwin, A., Joly, P., Kuzma, J., Palmer, M., Race, M., Stilgoe, J., Stirling, A., Wilsdon, J., Winickoff, D., Wynne, B., and Zoloth, L. CORRESPONDENCE: Synthetic biology: Missing the point. *Nature*, 510(7504), 218. (June 12, 2014). doi:10.1038/510218b.
- 2013 **Delborne, J.**, Schneider, J., Bal, R.*, Cozzens, S., and Worthington, R. Policy Pathways, Policy Networks, and Citizen Deliberation: Disseminating the Results of World Wide Views on Global Warming in the United States. *Science and Public Policy* 40 (3): 378-92. doi: 10.1093/scipol/scs124.
- 2013 Anderson, A.A., **Delborne, J.**, & Kleinman, D.L. Information beyond the forum: Motivations, strategies, and impacts of citizen participants seeking information during a consensus conference. *Public Understanding of Science*, 22(8), 955–970. doi:10.1177/0963662512447173
- 2012 **Delborne, J.** and Schneider, J. “Moving Forward with Citizen Deliberation: Lessons and Inspiration from the National Citizens’ Technology Forum,” in *Nanotechnology and the Public: Risk Perception and Risk Communication*. S. H. Priest (ed.), London: CRC Press, Taylor and Francis Group, pp. 103-11.
- 2012 Schneider, J., and **Delborne, J.** “Seeking the Spotlight: World Wide Views and the U.S. Media Context,” in *Citizen Participation in Global Environmental Governance*. M. Rask, R. Worthington, and M. Lammi (eds.). London: Earthscan Publications, pp. 241–60.

- 2011 **Delborne, J.A.** “Constructing Audiences in Scientific Controversy,” *Social Epistemology* 25 (1): 67-95.
- 2011 **Delborne, J.A.**, Anderson, A.*, Kleinman, D.L., Colin, M., and Powell, M.. “Virtual Deliberation? Prospects and Challenges for Integrating the Internet in Consensus Conferences.” *Public Understanding of Science* 20(3): 367-84.
- 2011 **Delborne, J.A.** and Galusky, W.. “Toxic Transformations: Constructing Audiences for Environmental Justice,” in *Technoscience and Environmental Justice: Expert Cultures in a Grassroots Movement*. G. Ottinger and B. Cohen (eds). Cambridge, MA: MIT Press, pp. 63-92.
- 2011 Kleinman, D.L., **Delborne, J.A.**, and Anderson, A.* “Engaging Citizens: The High Cost of Citizen Participation in High Technology.” *Public Understanding of Science* 20(2): 221-240.
- 2011 Powell, M., **Delborne, J.**, and Colin, M. “Beyond Engagement Exercises: Exploring the U.S. National Citizens’ Technology Forum from the Bottom-Up.” *Journal of Public Deliberation* 7(1): Article 4, 47 pages.
- 2011 Powell, M., Colin, M., Kleinman, D.L., **Delborne, J.**, and Anderson, A.*. “Imagining Ordinary Citizens? Conceptualized and Actual Participants for Deliberations on Emerging Technologies.” *Science as Culture* 20(1): 37-70.
- 2010 **Delborne, J.A.** “Biofuels: Streams and Themes,” in *Controversies in Science and Technology, Volume 3: From Evolution to Energy*, D. Kleinman, J. Delborne, K. Cloud-Hansen, and J. Handelsman (eds.). New Rochelle, NY: Mary Ann Liebert, Inc, pp. 175-90.
- 2008 **Delborne, J.A.** “Transgenes and Transgressions: Scientific Dissent as Heterogeneous Practice.” *Social Studies of Science* 38 (4): 509–41. [winner of 2010 David Edge Prize, Society for Social Studies of Science (4S)]
- 2008 Kleinman, D.L., **Delborne, J.A.**, and Autry, R.*. “Beyond the Precautionary Principle in Progressive Politics: Toward the Social Regulation of Genetically Modified Organisms.” *Tailoring Biotechnologies* 4 (1/2): 41-54.

Peer-Reviewed Conference Proceedings

- 2012 Ikard, S.*, **Delborne, J.**, and Brunsdale, K.. “Dammed If You Do, Dammed If You Don’t: Tensions between Ensuring Dam Safety and Maximizing Colorado’s Water Supply.” *Dam Safety 2012 Conference Proceedings*. Annual Conference of the Association of State Dam Safety Officials, September 15-19, 2012. Denver, CO.
- 2011 Lucena, J., **Delborne, J.**, Johnson, K, Leydens, J., Munakata-Marr, J., and Schneider, J. “Integration of Climate Change in the Analysis and Design of Engineered Systems: Barriers and Opportunities for Engineering Education.” *Proceedings of the ASME 2011 International Mechanical Engineering Congress & Exposition*, American Society of Mechanical Engineers, International Mechanical Engineering Congress and Exposition, November 11-17, 2011. Denver, CO.
- 2010 Parekh, M.*, Stone, K.*, and **Delborne, J.** “Coordinating Intelligent and Continuous Performance Monitoring with Dam and Levee Safety Management Policy.” *Dam Safety*

2010 Conference Proceedings. Annual Conference of the Association of State Dam Safety Officials, September 19-23, 2010. Seattle, WA.

Other Publications

- 2018 **Delborne, J.**, Kuzma, J., Gould, F., Frow, E., Leitschuh, C.*, & Sudweeks, J.* Mapping research and governance needs for gene drives. *Journal of Responsible Innovation*, 5(sup1), 4–12. <https://doi.org/10.1080/23299460.2017.1419413>
- 2017 **Delborne, J.**, Farooque, M., & Shapiro, J. (2017). *Genetically Engineered Algae Public Engagement Strategies: A Stakeholder Workshop Report* (Workshop Report). Tempe, AZ: ECAST: Expert and Citizen Assessment of Science and Technology. <https://ecastnetwork.org/research/genetically-engineered-algae-public-engagement-strategies/>
- 2017 Foley, R. W., Asare, P., **Delborne, J.**, Lach, J., & Misra, V. (2017). *Prototype to Patient Treatment: Dialogue on Safety, Regulation, Privacy, Security, and Acceptability for Wearable Medical Devices - A Workshop Report*. Retrieved from <https://doi.org/10.18130/V3804XJ4K>
- 2017 **Delborne, J.A.** The Ring of Engagement. Invited contribution to *Prometheus: The Science Policy Blog*. Center for Science and Technology Policy Research, University of Colorado at Boulder. <http://ciresblogs.colorado.edu/prometheus/2017/03/03/the-ring-of-engagement/>.
- 2015 Siplon, G., Herring, B., Kuzma, J., and **Delborne, J.** *SynBio 101* [screenplay]. Written as part of the “Multi-Site Public Engagement with Science (MSPES) - Synthetic Biology” (NSF Award #1421179).
- 2015 Hoopes, J.*, & **Delborne, J.** “HeLa Cells,” in J. B. Holbrook (Ed.), *Ethics, Science, Technology, and Engineering: A Global Resource* (2nd ed., Vol. 2, pp. 446–448). Farmington Hills, MI: Macmillan Reference USA.
- 2015 Harremoës, P. and revised by **Delborne, J.** “Precautionary Principle,” in J. B. Holbrook (Ed.), *Ethics, Science, Technology, and Engineering: A Global Resource* (2nd ed., Vol. 3, pp. 449–455). Farmington Hills, MI: Macmillan Reference USA.
- 2014 **Delborne, J.** “Grasping Synthetic Biology.” Invited paper for circulation prior to the *Workshop on Research Agendas in the Societal Aspects of Synthetic Biology*. Arizona State University, Tempe, AZ. November 4-6, 2014. Available: <https://cns.asu.edu/synbio/papers>.
- 2014 **Delborne, J.** “What’s that hiding behind the poll? Perceiving public perceptions of biotechnology” [invited blog post]. *The Cultural Cognition Project at Yale Law School*, D. Kahan (Ed.). June 24, 2014. Available: <http://www.culturalcognition.net/blog/2014/6/24/whats-that-hiding-behind-the-poll-perceiving-public-percepti.html>.
- 2012 **Delborne, J.** “Strategies of Neutrality between Political and Scientific Controversy: Comparing Efforts by U.S. Public Think Tanks to Inform Debates on Climate Change,” in *Proceedings of the International Conference on Culture, Politics, and Climate Change*. September 13-15, 2012. Boulder, CO.
- 2012 **Delborne, J.** and Wigner, A.*. “T. Boone Pickens,” in *Encyclopedia of Energy, Volume 3*. M.A. Pierce (Ed.). Ipswich, MA: Salem Press, pp. 1015-17.

- 2010 **Delborne, J.A.**, Kleinman, D.L., Cloud-Hansen, K.A., and Handelsman, J. "Introduction: From Evolution to Energy," in *Controversies in Science and Technology, Volume 3: From Evolution to Energy*, D. Kleinman, J. Delborne, K. Cloud-Hansen, and J. Handelsman (Eds.). New Rochelle, NY: Mary Ann Liebert, Inc, pp. xi-xxvi.
- 2008 **Delborne, J.A.** and Kinchy, A.J. "Genetically Modified Organisms," in *Battleground: Science and Technology, Volume 1*. S. Restivo and P.H. Denton (Eds). Westport, CT: Greenwood Press, pp. 182-95.

CONFERENCE ACTIVITY AND PRESENTATIONS

Invited Talks

- "Genetic Engineering in Agriculture," Farm to Table Working Group. North Carolina State University. Raleigh, NC. February 23, 2018.
- "A Decade of Synthetic Biology" [panelist], The End of Synthetic Biology? What Futures? University of Edinburgh, United Kingdom. December 14, 2017.
- "Public engagement: Rationales, methods, and intended outcomes," International Workshop Assessing the Security Implications of Genome Editing Technology. Hanover, Germany. October 13, 2017.
- "Emerging Technologies and Public Engagement," US-China Agricultural Biotechnology Safety Administration Collaboration Workshop: Communication, Engagement, and Biotechnology. North Carolina State University. Raleigh, NC. October 2, 2017.
- "CRISPR and the Ethics of Editing Genes," North Carolina Museum of Natural Sciences, with John Godwin. Raleigh, NC. September 28, 2017.
- "Strategies of engagement in synthetic biology," Engineering Resilience. Heron Island, Australia. September 12, 2017.
- "Emerging biotechnologies and public engagement: Reflections on the NASEM report on gene drives," Center for Science and Technology Policy Research, University of Colorado-Boulder. March 8, 2017.
- "Genetic Engineering and Society Center: 'Engineering' responsible innovation," Arizona State University. Tempe, AZ. February 27, 2017.
- "Incorporating public engagement in research and governance," American Association for the Advancement of Science. Boston, MA. February 17, 2017.
- "Reflections from the National Academies of Sciences committee on non-human gene drives and responsible conduct," Society for Risk Analysis. San Diego, CA. December 13, 2016.
- "Public engagement and emerging biotechnologies: Opportunities and challenges for response-able science." Centro de Estudos Sociais, University of Coimbra. Coimbra, Portugal. December 2, 2016.
- "Incorporating public engagement throughout phased testing [of gene drives]," American Society for Tropical Medicine and Hygiene. Atlanta, GA. November 17, 2016.
- "Engagement as governance." Making the World Engineerable: Science, Practice, and Policy. National Academies of Sciences, Engineering, and Medicine. Washington, DC. November 16, 2016.
- "Governing emerging biotechnologies: Expertise, democracy, and public engagement." Between Certainty and Experimentation, Department of Geography seminar series. University of North Carolina – Chapel Hill. November 11, 2016.
- "Research, Advocacy, and Engagement: Exploring the Roles of Experts in Democracy," keynote address to the 2016 Research-to-Policy Conference: Pathways to Successful Engagement in Agricultural, Natural Resources and Food Issues, hosted by University of California Cooperative Extension (UCCE) at the University of California, Davis. October 12, 2016.

“Gene drives on the horizon,” Science and Society, University of Ottawa. Ontario, Canada. September 28, 2016.

“Diverse approaches for public engagement,” Symposium: What Constitutes Responsible Field Release of Transgenic Insects? International Congress of Entomology. Orlando, FL. September 26, 2016.

“Mapping gene drive governance,” Conference on Advancing Science for Policy through Interdisciplinary Research on Regulation, organized by University of California, Berkeley’s Center for Science, Technology, Medicine and Society. Berkeley, CA. September 15, 2016.

“GMOs, public perception, and opportunities for public engagement,” Agricultural Biotechnology Training Program for Turkish delegation, coordinated by the College of Agriculture and Life Sciences (CALS) Global Academy and the Genetic Engineering and Society Center. NC State University. September 21, 2016.

“Public attitudes, perceptions, and engagement in the field of genetic modification,” Regulatory Affairs for Crop Protection (guest lecture). NC State University. August 22, 2016.

“Perspectives from recent proceedings of the National Academy of Sciences and its June 2016 report, *Gene Drives on the Horizon*,” Leadership Summit on Synthetic Biology Stakeholder and Community Engagement for Public Health, Conservation, and Food and Agriculture. Co-sponsored by the Wilson Center and the Keystone Policy Center. Washington, D.C. July 12, 2016.

“Genetic Engineering and Society,” presentation to guests from Bayer CropScience and the Biotechnology Research Institute of the Chinese Academy of Sciences, hosted by the NC Agricultural Research Service. NC State University. April 27, 2016.

“Biotechnology and Engaging the Public as Experts,” Biosafety Support Unit, Indian Ministry of Science and Technology, New Delhi, India. March 9, 2016.

“Engaging Publics as Experts,” Effective Management of Plant-Parasitic Nematodes, Indo-U.S. Science and Technology Forum, New Delhi, India. March 8, 2016.

“Community Engagement and Informed Consent,” Policy and Regulatory Issues for Gene Drives in Insects. J. Craig Venter Institute, La Jolla, CA. January 21, 2016.

“Public Attitudes, Perceptions, and Engagement in the Field of Genetic Modification,” *Genetic Engineering Research at NC State*. North Carolina State University. April 28, 2015.

“Engaging Publics in Science and Technology,” *When Science and Citizens Connect: Public Engagement on Genetically Modified Organisms*. Workshop of the Roundtable on Public Interfaces of the Life Sciences (PILS), National Academy of Sciences, Washington, D.C. January 15, 2015.

“Public Engagement in Science and Technology,” *Winter School on the Anticipatory Governance of Emerging Technologies*, organized by The Center for Nanotechnology in Society, Arizona State University. Saguaro Lake Ranch, Mesa, AZ. January 7, 2015.

“Anticipatory Translation: Genetically Modified Trees and Conceptualizations of Technological, Regulatory, and Cultural Futures,” Science, Technology, and Society Seminar. North Carolina State University. December 4, 2014.

“Biofuels, Biodiversity, and Responsible Innovation: The Case of Genetically Engineered Trees.” Energy and Society Lecture Series, Consortium for Science, Policy, and Outcomes. Arizona State University. November 4, 2014.

“Anticipating Futures in Forest Biotechnology,” Genetic Engineering and Society Colloquium. North Carolina State University. October 14, 2014.

“Transgenics & Society: Towards a Productive Dialogue.” *Transgenics and Society Symposium*. International Center for the Improvement of Maize and Wheat (CIMMYT). Texcoco, Mexico. July 23, 2014.

“Perspectives on Public Perceptions of Biotechnology.” *Sixth Annual Biotechnology Symposium*. SUNY-ESF, Syracuse, NY. May 15, 2014.

- “Science, Democracy, and Public Engagement.” Transgenics and Society Roundtable. International Center for the Improvement of Maize and Wheat (CIMMYT). Texcoco, Mexico. March 14, 2014.
- “Public Think Tanks and Scientific Controversy: Analyzing Efforts by Public Think Tanks to Inform Climate Change Policy.” Science and Technology in Society Departmental Seminar. Virginia Polytechnic Institute and State University. December 6, 2013.
- “Public Engagement in Science and Technology: When the Stakes are High and Debates are Lively.” Cooperative Institute for Research in Environmental Sciences, Center for Science and Technology Policy Research 10th Anniversary. University of Colorado-Boulder. September 27, 2012.
- “State-Sponsored Expertise and the Navigation of Political and Scientific Controversy: Reports on Climate Change Policy by U.S. Public Think Tanks.” Political Sociology of Science Workshop. University of Wisconsin-Madison. June 1, 2012.
- “Energy Education at CSM: A Humanities and Social Sciences Approach,” with J. Lucena and J. Schneider. National Renewable Energy Laboratory, Golden, CO. May 2, 2012.
- “Navigating Controversy, Seeking Objectivity: Goals and Practices of Public Think Tanks to Provide Expertise to Policymakers.” 2012 Hixon Forum: Engineers, Exact Scientists (Technocrats) and Political Processes: Global Perspectives. Harvey Mudd College, Claremont, CA. March 2, 2012.
- “Constructing Audiences in Scientific Controversy.” Environmental Science and Engineering Seminar Series. Colorado School of Mines. September 30, 2010.
- “Reaching Across or Reaching Within? STS and STP Networks, Communities, and Questions.” Gordon Research Conference on Science and Technology Policy. Waterville Valley, NH. August 9, 2010.
- “Citizen Voices in the Global Climate and Energy Challenge: Worldwide Views and Citizen Deliberation,” with J. Schneider. Noontime Seminar Series sponsored by the Center for Science and Technology Policy Research, the Renewable and Sustainable Energy Institute, and the Environment and Society Program of the Institute of Behavioral Science. University of Colorado-Boulder. February 1, 2010.
- “Reflections on the United Nations Climate Conference in Copenhagen (COP15).” Center for Science and Technology Policy Research. University of Colorado-Boulder. January 11, 2010.
- “Nanotechnology and the Public: Data for Decision Makers.” Participant in panel discussion with the U.S. Congressional Nanotechnology Caucus, organized by Arizona State University’s Center for Nanotechnology in Society. Dirksen Senate Office Building, Washington, D.C. March 9, 2009.
- “The Practice of Scientific Dissent in Agricultural Biotechnology.” Center for Science and Technology Policy Research. University of Colorado-Boulder. March 4, 2009.
- “Casting an Audience in Scientific Controversy.” Sociology of Environment, Technology, and Agrofood Systems (SociETAS). University of Wisconsin-Madison. September 14, 2007.
- “Dissident Science in Agricultural Biotechnology.” Science, Democracy, and Public Policy Colloquium. University of Wisconsin-Madison, March 9, 2006.

Sessions Organized

- “Roasting (GM) Chestnuts: Disruptions in GMO Innovation, Governance, and Engagement,” session of four papers. Annual Meeting of the Society for Social Studies of Science. Denver, CO. November 12, 2015.
- “Moral Fiber: Genetically Modified Trees, Responsible Innovation, and Environmental Justice,” session of four papers. Atlanta Conference on Science, Technology, and Innovation Policy. Atlanta, GA. September 17, 2015.
- “‘Next Generation’ Technologies: Expectations, Continuities, and Governance,” session of ten papers. Annual Meeting of the Society for Social Studies of Science. Buenos Aires, Argentina. August 23, 2014.

“The Practice of Scientific Dissent,” with K.D. Warner, session of three papers. Annual Meetings of the Society for Social Studies of Science. Washington, D.C, October 29, 2009. Also served as session discussant.

“Agricultural (Bio)Technologies and International Development: Engaging STS to Make a Difference,” with D. Glover and M. Harsh, session of five papers. Annual Meetings of the Society for Social Studies of Science. Montreal, Canada. October 11, 2007.

“Transgene Transgressions: Controversies Over Transgenic Maize in Mexico,” with A. Kinchy, session of four papers. Annual Meetings of the Society for Social Studies of Science. Vancouver, Canada. November 4, 2006.

“Practicing Scientific Dissent,” with J. Howard and D. Durant, session of four papers. Annual Meetings of the Society for Social Studies of Science. Pasadena, CA. October 21, 2005.

Conference Papers and Other Activities

Delborne, Jason A. [discussant] “Emerging Technologies, New Governance Arrangements, and the Time-Honored Challenges: Searching for Novelty in Anticipatory Governance.” *Advancing Science for Policy through Interdisciplinary Research in Regulation*. University of California, Berkeley. November 17, 2017.

Hedgespeth, M.L., McEachran, A.D., Rashash, D., Shea, D., Strynar, M., **Delborne, J.A.**, and Nichols, E.G. Municipal Wastewater Application to Forests: Using Participatory Science to Understand Human Exposure and Risks to Chemical Contaminants of Concern [poster] SETAC North America 38th Annual Meeting, Minneapolis, MN. November 12-16, 2017.

Delborne, Jason A. “Envisioning Responsible Innovation in Biotechnology for Conservation: Engagement, GM Chestnut Trees, and Gene Drive Mice.” Annual Meeting of the Society for Social Studies of Science. Boston, MA. August 31, 2017.

Backus, Gregory A., and **Delborne, Jason A.** “Gene Drives over the Horizon: A Model, for Anticipatory Governance.” Annual Meeting of the Society for Social Studies of Science. Boston, MA. August 31, 2017.

Delborne, Jason A. and Harrison*, Rebecca. “Boasting Chestnuts: Genetically-Modified Trees, Responsible Innovation, & Anticipatory Governance.” Annual Meeting of the Society for Social Studies of Science. Denver, CO. November 12, 2015.

Delborne, Jason A., L. Rivers, and M. Robinson. “Anticipatory Governance and Responsible Innovation: Technological and Regulatory Futures of Genetically Modified Trees.” *Atlanta Conference on Science, Technology, and Innovation Policy*. Atlanta, GA. September 17, 2015.

Delborne, Jason. “Anticipating Responsible Innovation: Genetically-Modified Trees and Conceptualizations of Technological and Regulatory Futures,” *Third Annual Conference on Governance of Emerging Technologies: Law, Policy and Ethics*. Scottsdale Resort and Conference Center, Scottsdale, AZ. May 27, 2015

Delborne, Jason. “Genome Engineering for Biological Insights and Product Development” (moderator), *Genetic Engineering Research at NC State* (also served as panelist and poster judge). North Carolina State University. April 28, 2015.

Delborne, Jason A. “Towards Improving the Interfaces between Scientists and Citizens: Breakout

Session: Transgenic Corn and the Monarch Butterfly” (facilitator), *When Science and Citizens Connect: Public Engagement on Genetically Modified Organisms*. Workshop of the Roundtable on Public Interfaces of the Life Sciences (PILS), National Academy of Sciences, Washington, D.C. January 16, 2015.

Robinson, M., **Delborne, J.**, and Rivers, L. “Does Anticipating Futures Shape Governance? How One NGO Hopes to Predict and Shape Global Regulatory and Commercial Futures in the Creation of Genetically Modified Trees” [poster]. Democratizing Technologies: Assessing the Roles of NGOs in Shaping Technological Futures. University of California, Santa Barbara. November 13, 2014.

Delborne, Jason A. “Intersections of Genetics and Society,” a professional development workshop for graduate students and public symposium (co-organizer). North Carolina State University. September 19, 2014.

Delborne, Jason, Rivers, Louie, and Robinson, Mark. “Doubling Back on Risk Perception: Scientists, Genetically Modified Trees, and the Risks of Technological Rejection.” Annual Meeting of the Society for Social Studies of Science. Buenos Aires, Argentina. August 23, 2014.

Delborne, Jason A. “Natural Resources: Socio-Ecological Systems and Policy” (Session Discussion Leader). Gordon Research Conference on Science and Technology Policy. Waterville Valley, NH. August 12, 2014.

Pitts, Elizabeth A.* and **Delborne, Jason A.** (2014, May 28). “Regulatory (Mouse) Traps: Social, Cultural and Ethical Issues in Classifying Genetically Engineered Organisms.” Second Annual Conference on the Governance of Emerging Technologies: Law, Policy, and Ethics. Talking Stick Resort, Scottsdale, AZ. May 28, 2014.

Delborne, Jason. “Public Think Tanks and Scientific Controversy: Analyzing Efforts by Public Think Tanks to Inform Climate Change Policy.” Annual Meeting of the Society for Social Studies of Science. San Diego, CA. October 12, 2013.

Ikard, Scott*, **Jason Delborne**, and Kenley Brunsdale. “Dammed If You Do, Dammed If You Don’t: Tensions between Ensuring Dam Safety and Maximizing Colorado’s Water Supply.” Association of State Dam Safety Officials – Dam Safety 2012. Denver, CO. September 19, 2012.

Delborne, Jason. “Strategies of Neutrality between Political and Scientific Controversy: Comparing Efforts by U.S. Public Think Tanks to Inform Debates on Climate Change Policy.” International Conference on Culture, Politics, and Climate Change. University of Colorado-Boulder. September 15, 2012.

Hollander, Rachele, Clark Miller, **Jason Delborne**, Junko Munakata Marr, David Rabkin, and David Sittenfeld. “Climate Change, Engineered Systems, and Society.” Climate Literacy Network Teleconferences. April 3, 2012.

Kimmel, Shawn*, Nathan Toohey*, and **Jason Delborne.** “Roadblocks in Highway Innovation: Public Highway Construction, Innovation, and Regulation.” Conference on Earth and Energy Research, Colorado School of Mines, Golden, CO. March 28-29, 2012.

Delborne, Jason A., Aubrey Wigner*, and Abby Kinchy. “‘Bridge Fuel’: Metaphorical Hope and Hype.” Annual Meeting of the Society for Social Studies of Science. Cleveland, OH. November 3, 2011.

Delborne, Jason. “Effective Interventions in Undergraduate Engineering Education,” session moderator. Networking Educational Priorities for Climate, Engineered Systems, and Society (workshop organized during Phase 1 of the Climate Change, Engineered Systems, and Society grant). Washington, DC. October 18, 2011.

Delborne, Jason, Jen Schneider, Ravtosh Bal, Susan Cozzens, and Rick Worthington. "Policy Pathways, Policy Networks, and Citizen Deliberation: Disseminating the Results of World Wide Views on Global Warming in the United States." Atlanta Conference on Science, Technology, and Innovation Policy. Georgia Institute of Technology. September 17, 2011.

Bouchey, Michael* and **Jason Delborne**. "Redefining Safety in Commercial Space." Atlanta Conference on Science, Technology, and Innovation Policy. Georgia Institute of Technology. September 17, 2011.

Delborne, Jason. "Interactions – Defining the Problems," designated respondent. Climate, Society, and Technology (workshop organized during Phase 1 of the Climate Change, Engineered Systems, and Society grant). Beckman Center, Irvine, CA. June 7, 2011.

Delborne, Jason, Aubrey Wigner, and Abby Kinchy. "Hope for Sustainability, Hype for Natural Gas: The 'Bridge Fuel' Metaphor, Refined." Conference on the Political Sociology of Science and Technology. Rensselaer Polytechnic Institute. April 30, 2011.

Parekh, Minal L. *, Kerri A. Stone*, and **Jason Delborne**. "Intelligent Monitoring of Dams and Levees: Can Technological Advancements in Continuous Monitoring Stimulate Policy Change?" (poster). Association of State Dam Safety Officials – Dam Safety 2010. Seattle, WA. September 20-21, 2010.

Delborne, Jason. "Translating World Wide Views Results into Policy – Media and Dissemination to Policymakers." World Wide Views on Global Warming Research Workshop. Snekkersten, Denmark. June 8, 2010.

Delborne, Jason and Wyatt Galusky. "Toxic Transformations: Constructing Audiences for Environmental Justice." Annual Meetings of the Society for Social Studies of Science. Washington, D.C. October 31, 2009.

Kleinman, Daniel Lee, **Jason Delborne**, and Ashley Anderson*. "Engaging Citizens: The High Cost of Citizen Participation in High Technology." Annual Meetings of the Society for Social Studies of Science. Washington, D.C. October 31, 2009.

Delborne, Jason. "Constructing Audiences in Scientific Controversy." Annual Meetings of the Society for Social Studies of Science. Montreal, Canada. October 11, 2007.

Delborne, Jason. "STS at the Intersection of Science and Activism." STS Engaged: Expertise, Audience, and the Participatory Turn. University of Virginia. March 9, 2007.

Delborne, Jason. "Transgenes and Transgressions: Spectrums of Scientific Dissent." Annual Meetings of the Society for Social Studies of Science. Vancouver, BC. November 4, 2006.

Delborne, Jason. "Pathways of Scientific Dissent in Agricultural Biotechnology." Annual Meetings of the Society for Social Studies of Science. Pasadena, CA. October 21, 2005.

Delborne, Jason. "Transforming Scientific Dissent into Dissidence: Analysis of 'The Pulse of Scientific Freedom in the Age of the Biotech Industry.'" Annual Meetings of the Society for Social Studies of Science. Paris, France. August 27, 2004.

Delborne, Jason. "Dissident Science in Agricultural Biotechnology: The Discovery, Controversy and Significance of Transgenes." Annual Meetings of the Society for Social Studies of Science. Atlanta, GA. October 17, 2003.

COURSES TAUGHT

North Carolina State University (Aug 2013 –)

- Current Issues in Natural Resource Policy (NR 571) – required core course for the Masters in Natural Resources program.
- Emerging Technologies and Society (GES 508) / New Technologies in Social and Cultural Context (GES 591) – required graduate course for minor in Genetic Engineering and Society (GES)
- Science, Technology, and Society Capstone Seminar (STS 403)
- Pest Issues in Developing Countries: Biology, Culture, and Infrastructure (GES 591) – required 4-week intensive summer course in Mexico for IGERT Ph.D. fellows.
- Island Genetic Pest Management Project (GES 591) – cohort project for IGERT Ph.D. fellows.

Colorado School of Mines (Aug 2008 – May 2013)

- Nature & Human Values (LAIS 100): 1-2 lectures per semester to 600+ students.
- U.S. Public Policy Analysis (HNRS 300): junior-level course for McBride Honors Program in Public Affairs; co-taught with professor of economics and business.
- History of Technology (LAIS 371): junior-level course for 35 students; foundational course for STEP minor [STEP = Science, Technology, Engineering, and Policy].
- Science and Technology Policy (LAIS 486): writing intensive, senior-level capstone course required for STEP minor.
- Science & Technology Policy (LAIS 586): graduate-level required course for STEP minor; MIPER elective [MIPER = Master's Program in International Political Economy of Resources].
- Science, Technology, and Society (LAIS 565): graduate level course for STEP minor; required course for all SmartGeo IGERT fellows; MIPER elective.
- SmartGeo Seminar (SYGN 555): required weekly seminar for all SmartGeo IGERT fellows.

University of Wisconsin-Madison (Aug 2006 – Jun 2008)

- Where Science Meets Society (STS 201): required course for the Integrated Studies in Science, Engineering, and Society Undergraduate Certificate Program (ISSuES).
- Science, Technology, Medicine, and Society (STS 901): required seminar for Ph.D. minor in STS.

University of California, Berkeley (Jan 1999 – Dec 2002)

- Environmental Policy, Administration, and Law (ESPM 50): Teaching assistant and section leader for sophomore-level course.
- Case Studies in Environmental Science, Policy, and Management (ESPM 200A): Teaching assistant for required graduate seminar in ESPM program.
- Research Approaches in Environmental Science, Policy, and Management (ESPM 201A): Co-Instructor for required graduate seminar in ESPM program.
- Environmental Electioneering, Lobbying, and Advocacy (ESPM mini-course): Teaching assistant.

Stanford University (Sep 1993 – Jun 1994)

- Human Biology Core (HUMBIO 2B, 3B, 4B): Teaching assistant and section leader for the social science components of the core sophomore sequence in the interdisciplinary human biology program.

PROFESSIONAL SERVICE

International Union for Conservation of Nature, Task Force on Synthetic Biology and Biodiversity Conservation.	2018-
National Academies of Sciences, Engineering and Medicine, Ad-Hoc Committee on the Potential for Biotechnology to Address Forest Health, Division on Earth and Life Sciences	2017-
Review Panel, National Science Foundation, Division of Social and Economic Sciences	2017-
Post-Tenure Review Committee, Dept. of Forestry and Environmental Resources (NCSU)	2016-
Leadership in Public Science Committee, Chancellor's Faculty Excellence Program. North Carolina State University (NCSU)	2015-
Editorial Board, <i>Science Communication</i>	2015-
University Standing Committee on Evaluation of Teaching, NCSU	2015-
Editorial Board (charter member), <i>Engaging Science, Technology, and Society</i> Society for Social Studies of Science's open-access journal [estsjournal.org].	2014-
Faculty Facilitator and Mentor, "Policy, Science, Technology and Society (POSTS) Scholars Program," funded by the National Science Foundation to "increase diversity in science and technology studies and science policy fields," coordinated through Arizona State University's Center for Nanotechnology in Society. Program includes campus mentoring during the academic year and three weeks of summer workshops in Washington, D.C.	2014-
Science, Technology, and Society Advisory Committee (NCSU)	2014-
Executive Committee, Genetic Engineering and Society Center (NCSU)	2013-
Executive Committee, IGERT Fellowship program in Genetic Engineering and Society (NCSU)	2013-
Co-Director, Genetic Engineering and Society Minor Program (NCSU)	2013-
Teaching Peer Review Committee, Dept. of Forestry and Environmental Resources (NCSU)	2013-
Mentoring Program, Society for Social Studies of Science (4S). Initiated program as elected 4S Student Representative in 2005. Volunteer mentor in subsequent years.	2005-
National Academies of Sciences, Engineering and Medicine, Ad-Hoc Committee on Gene Drive Research in Non-Human Organisms: Recommendations for Responsible Conduct.	2015-16
Vice-Chair, Gordon Research Conference on Science and Technology Policy	2014
Society for Social Studies of Science (4S), Ad-hoc 6S charter committee	2014
Transdisciplinary Research Seminar Working Group, College of Natural Resources (NCSU)	2013-14
Executive Committee for Intelligent Geosystems (SmartGeo) IGERT Program	2009-13

Colorado School of Mines (CSM). Lead faculty for STS/public policy program for SmartGeo graduate fellows.

Program Advisor, Science, Technology, Engineering, and Policy (CSM) Undergraduate minor and area of special interest; graduate minor and certificate.	2010-13
Co-coordinator, “Science Outside the Lab: A Policy (Dis)orientation.” Two-week summer workshop organized by Arizona State University to introduce science and engineering graduate students to the intersection of science and policy in Washington, D.C.	2011, 2012
Graduate Curriculum Committee – Division of Liberal Arts & International Studies (CSM)	2011-13
Division Representative, University Research Council (CSM)	2012-13
Undergraduate Curriculum Committee – Division of Liberal Arts & International Studies, CSM	2010-12
Udall Foundation Scholarship Review Committee	2011
Steering Committee of University of Wisconsin-Madison’s Delta Program, affiliated with the Center for the Integration of Research, Teaching, and Learning	2007-08
Elected student representative to the 4S Council (Society for Social Studies of Science)	2004-06
Peer-review of proposals and manuscripts	
<i>Acta Astronautica</i>	2016
Cornell University Press	2014
Council for the Humanities of the Netherlands Organization for Scientific Research	2012
Elsevier	2016
<i>Engaging Science, Technology, and Society</i>	2015(2), 2016
<i>Environmental Humanities</i>	2015
<i>Environmental Sociology</i>	2015
Foundation for the National Institutes of Health	2017
<i>Gates Open Research</i>	2017
<i>Georgetown Journal of International Affairs</i>	2017
<i>Governing Biodiversity through Democratic Deliberation</i> (Routledge)	2013
<i>Ground Water</i>	2009
<i>Hastings Center Report</i>	2017
<i>International Journal of Foresight and Innovation Policy</i>	2013(2)
<i>International Journal of Engineering, Social, Justice, and Peace</i>	2013, 2014
<i>Minerva</i>	2015
National Academies of Engineering	2016, 2017
National Science Foundation	2008, 2010(2), 2011
Oxford University Press	2016
<i>Pacific Conservation Biology</i>	2017
<i>Perspectives on Science</i>	2015
<i>PLOS Biology</i>	2014 (3)
<i>Public Understanding of Science</i>	2009, 2011(2), 2012, 2013
Routledge/Earthscan Press	2015
<i>Science and Public Policy</i>	2014
<i>Science as Culture</i>	2009
<i>Science Communication</i>	2010, 2011, 2012(2), 2013(3), 2014 (2), 2015, 2016(2), 2017(2)
<i>Science, Technology and Human Values</i>	2008
Social Sciences and Humanities Research Council of Canada	2011
<i>Social Studies of Science</i>	2008, 2009, 2012, 2013, 2015, 2016, 2017
Swiss National Science Foundation	2015

United States-Israel Binational Science Foundation 2015
 World Class University Program/Korean Ministry of Education, Science & Technology 2012, 2013

STUDENTS ADVISED

North Carolina State University (2013-)

- Barnhill-Dilling, (Sarah) Kathleen. Forestry and Environmental Resources. Ph.D. advisor. Fall 2014-
- Backus, Gregory. Biomathematics Program / Zoology / Genetic Engineering and Society IGERT. Ph.D. committee member and minor advisor. Defended January 2017.
- Barnes, Jessica Cavin. Forestry and Environmental Resources / Genetic Engineering and Society IGERT. Ph.D. advisor. Fall 2014-
- Elsensohn, Johanna. Entomology / Genetic Engineering and Society IGERT, Ph.D. committee member. Spring 2015-
- George, Dalton. Forestry and Environmental Resources. Ph.D. advisor. Spring 2018-
- Late, Ketki. Natural Resources. Master's committee member. Defended March 2017.
- MacGregor, Dresden. Natural Resources. Master's committee member. Spring 2017-
- Ndoh, Tina. Public Administration. Ph.D. committee member. Defended May 2015.
- Pitts, Elizabeth. Communication, Rhetoric, and Digital Media / Genetic Engineering and Society IGERT. Ph.D. committee member. Defended December 2016.
- Shain, Samuel. Park Scholar. Faculty mentor. Fall 2015-
- Sudweeks, Jayce. Public Administration / Genetic Engineering and Society IGERT. Ph.D. committee member. Spring 2015-
- Typhina, Eli. Communication, Rhetoric, and Digital Media. Ph.D. committee member. Defended February 2017.
- Valdez, Rene. Forestry and Environmental Resources / Genetic Engineering and Society IGERT. Ph.D. committee member. Spring 2014-
- Wooten, Elizabeth. Natural Resources. Master's committee member. Defended November 2017.

Colorado School of Mines (2008-13)

- Undergraduate Minor and Area of Special Interest (ASI): Science, Technology, Engineering, and Policy. 13 students.
- Graduate Minor/Certificate: Science, Technology, Engineering, and Policy. 15 students.
- Thesis committees, Masters in International Political Economy of Resources. 3 students.
- Ph.D. thesis committees in Economics and Business. 2 students.
- Ph.D. thesis committee in Mining. 1 student.
- Ph.D. thesis committees in SmartGeo IGERT Program. 11 students.

COMMUNITY SERVICE

Dorothea Dix Park Working Group: Park and Transportation (Raleigh, NC)	2017-
Boylan Heights Neighborhood Welcoming Committee (Raleigh, NC)	2014-16
Stanford University Alumni Interview Volunteer (Raleigh, NC)	2014
Soccer coach, Colorado Ice soccer club (Golden, CO)	2008-12
Commissioner, City of Madison's Affirmative Action Commission (Madison, WI)	2007-08
Chair of Finance Committee, member of Executive Committee, and meeting facilitator Pleasant Hill Cohousing (Pleasant Hill, CA)	2001-05

OTHER PROFESSIONAL EXPERIENCE

Consultant, Spark Creative (Chicago, IL) – Led workshops in team building, communication, and creativity with exercises derived from improvisational theater.	1996-2005
Organizer, Metro Seniors in Action (Chicago, IL) – Coordinated campaigns, launched college internship program, managed volunteers, and staffed committees.	1996-98
Field Organizer, Green Corps (San Francisco, CA)	1995-96

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