

MEREDITH T. NILES

Department of Nutrition and Food Sciences & Food Systems Program
 350 Carrigan Wing
 109 Carrigan Drive
 Burlington, VT 05405
mtniles@uvm.edu

EDUCATION AND TRAINING

- 2014-2015 Giorgio Ruffolo Post-doctoral Research Fellow in Sustainability Science
Harvard University, Kennedy School of Government, *Cambridge, MA*
 Research: *Assessing Knowledge and Innovation Systems for Climate Smart Agriculture; Integrated Crop and Livestock Systems for Sustainable Development and Climate-Smart Agriculture*
- 2009-2014 PhD, Ecology, **University of California-Davis**, Department of Environmental Science and Policy
 Dissertation: *Agricultural Innovation for Climate Change Mitigation and Adaptation: A Comparison of New Zealand and California Farmers and Policies.*
- 2001-2005 B.A., Political Science, Honors Environmental Studies, *Phi Beta Kappa, Summa Cum Laude*
The Catholic University of America, *Washington D.C.*

PROFESSIONAL EXPERIENCE

- 2015- Assistant Professor
 Department of Nutrition and Food Sciences, Food Systems Program
 College of Agriculture and Life Sciences, University of Vermont, *Burlington VT*
- 2015- Associate, New Zealand Institute of Economic Research, *Wellington New Zealand*
- 2014-2015 Selected Participant, “From Harvard Square to the Oval Office”, Political Campaign Training Program for Women, Harvard University, Kennedy School of Government, *Cambridge, MA*
- 2009- Relevant Consulting Experience:
- Nitrogen Management Carbon Offset Protocol Expansion, Environmental Defense Fund, *San Francisco, CA* (2016-2017)
 - Climate Change Mitigation Through Livestock, Food Waste and Dietary Changes, Natural Resources Defense Council, *San Francisco, CA* (2014-2015)
 - Nitrogen Management Project Offset Protocol, Climate Action Reserve, *Los Angeles, CA* (2013-2014)
 - Environment and Sustainability Consultant, Millstone Advisors, *New York, NY* (2012-2013)
 - Grasslands Carbon Offset Protocol, Climate Action Reserve, *Los Angeles, CA* (2012)
 - Environmental Consultant-Manure Management, Organic Valley Dairy Cooperative, *La Farge, WI* (2011)
 - Food and Environment Consultant, Clif Bar Company, *Berkeley, CA* (2011)
 - Social Network Analyst, Agency for Educational Development/US Agency for International Development, *Washington DC*, (2010)
 - Agriculture and Science Consultant, National Cooperative Grocers Association, *Iowa City, IA* (2009-2011)
- 2013, 2014 Visiting Scientist, New Zealand Institute of Economic Research, Wellington, New Zealand
Using empirical data to develop agent-based models to assess environmental policy interventions in agriculture
- 2010, 2012 Visiting Scientist, Ruakura Agricultural Research Center and Grasslands Research Center, AgResearch Ltd., *Hamilton and Palmerston North, New Zealand*
- 2008-2009 Food and Climate Change Campaign Coordinator, The Center for Food Safety, *Washington D.C.*
- 2007 Food Policy and Research Intern, The Center for Food Safety, *Washington D.C.*
- 2005-2006 Public Affairs Coordinator, President’s Emergency Plan for AIDS Relief (PEPFAR), Dept. of Public and Congressional Affairs, Office of the Global AIDS Coordinator,

United States Department of State, *Washington D.C.*

2004-2005 Management Assistant, President's Emergency Plan for AIDS Relief (PEPFAR),
Dept. of Monitoring, Evaluation and Information, Office of the Global AIDS Coordinator,
United States Department of State, *Washington D.C.*

PEER-REVIEWED ARTICLES (Published and In Revision) * Indicates a student author

- 19) **Niles, M.T.**, and J. Salerno. A cross country analysis of climate shocks on smallholder food insecurity. In Revision at *PLOS One*.
- 18) **Niles, M.T.**, Ahuja, R., Esquivel, J., Heller, M., Mango, N., Tirado, C., Vermeulen, S. An assessment of food systems opportunities for climate change mitigation. Accepted for a special issue on Climate Change and Food Systems in *Renewable Agriculture and Food Systems*.
- 17) Schattman, R., Roesch-McNally, G., Wiener, S., **Niles, M.T.**, Hollinger, D. Farm Service Agency employee intentions to use weather and climate data in professional services. Accepted for a special issue on Climate Change and Food Systems in *Renewable Agriculture and Food Systems*
- 16) **Niles, M.T.**, Garrett, R., Walsh, D*. (2018). Ecological and economic benefits and challenges for integrating sheep into viticulture production. Published online December 19, 2017. *Agronomy for Sustainable Development*. 38: 1. <https://doi.org/10.1007/s13593-017-0478-y>
- 15) **Niles, M.T.** and Brown, M. (2017). A multi-country assessment of factors related to smallholder food security in varying rainfall conditions. *Scientific Reports*. 7: 16277. doi:10.1038/s41598-017-16282-9
- 14) **Niles, M.T.** and Courtney Hammond-Wagner* (2017). Farmers seek local solutions for California water management and the Sustainable Groundwater Management Act. *California Agriculture* Special Issue, "California's Sustainable Groundwater Management Act". <https://doi.org/10.3733/ca.2017a0040>
- 13) Garrett, R., **Niles, M.T.**, Gil, J., Gaudin, A., Chaplin-Kramer, B., Assman, A., Assman, T., Brewer, K., de Faccio Carvalho, P.C., Cortner, O., Dynes, R., Garbach, K., Kebeab, E., Mueller, N., Reis, J. C., Snow, V., Valentim, J. (2017). Social and ecological analysis of integrated crop livestock systems: Current knowledge and remaining uncertainty. *Agricultural Systems*, 155: 136-146.
- 12) Kross, S., Ingram, K*, Long, R., **Niles, M.T.** (2017). Drivers of farmer perceptions of wildlife and on-farm conservation actions. Published online April 24, 2017. *Conservation Letters*. DOI: 10.1111/conl.12364
- 11) Garrett, R., **Niles, M.T.**, Gil, J., Dy, P., Ferreira, J., Reis, J., Valentim, J. (2017). Re-integrating crop and livestock systems: A comparative policy analysis. *Sustainability*, 9: 473.
- 10) **Niles, M.T.** and N. Mueller. (2016). Farmer perceptions of climate change: Associations with observed temperature and precipitation trends, irrigation, and climate beliefs. *Global Environmental Change*, 39: 133-142.
- 9) **Niles, M.T.**, Brown, M., Dynes, R. (2016). Farmer's intended and actual adoption of climate change mitigation and adaptation strategies. *Climatic Change*, 135: 277-295.
- 8) Prokopy, L., Arbuckle, J., Barnes, A. Haden, V.R. Hogan, A, **Niles, M.T.**, Tyndall, J. (2015). Farmers and climate change: A cross-national comparison of belief and risk perceptions in developed countries. *Environmental Management*, 56: 492-504
- 7) **Niles, M.T.**, Lubell, M., Brown, M. (2015). How limiting factors drive agricultural adaptation to climate change. *Agriculture, Ecosystems & Environment*, 200: 178-185.
- 6) Lubell, M., **Niles, M.T.**, Hoffman, M. (2014). Agricultural education and outreach in the age of connectivity. *Journal of Society and Natural Resources*, 27: 1089-1103
- 5) **Niles, M.T.**, Lubell, M., Haden, V.R. (2013). Perceptions and responses to climate policy risks among California farmers. *Global Environmental Change*, 23: 1752-1760.

- 4) Haden, V.R.,* **Niles, M.T.***, Lubell, M., Perlman, J., Jackson, L.E. (2012). Global and local concerns: What attitudes and beliefs motivate farmers to mitigate and adapt to climate change? *PLOS One*. 7 (12)* *Both authors contributed equally to this manuscript*
- 3) **Niles, M.T.** and Lubell, M. Integrative frontiers in environmental policy theory and research. (2012). *Policy Studies Journal*, 40: 41-64
- 2) Jackson, L., Haden, V.R., Hollander, A.D., Lee, H., Lubell, M., Mehta, V.K., O'Geen, T., **Niles, M.T.**, Perlman, J., Purkey, D., Salas, W., Sumner, D., Tomuta, M., Dempsey, M., Wheeler., S.M (2012). Agricultural mitigation and adaptation to climate change in Yolo County, CA. California Energy Commission Project 500-09-009, pp.153.
- 1) **Niles, M.T.** (2008). Sustainable soils: Reducing, mitigating and adapting to climate change with organic agriculture. *Sustainable Development Law and Policy*, 9:19-23

PEER-REVIEWED BOOK CHAPTERS

- 3) Behrens, P. and **M.T. Niles**. Forthcoming. Climate change and food sustainability. In Behrens, P. (Ed.), *Food Sustainability*, Oxford University Press.
- 2) **Niles, M.T.** and M. Brown. Forthcoming. Food security and sustainability. In Behrens, P. (Ed), *Food Sustainability*, Oxford University Press.
- 1) Niles, **M.T.**, (2013). Achieving social sustainability in animal agriculture: Challenges and opportunities to reconcile multiple sustainability goals. In Kebreab, E. (Ed), *Sustainable Animal Agriculture*. CABI Press, p 193-212

PEER-REVIEWED PUBLICATIONS IN REVIEW

- 4) Millar-House, A*., Vatovec, C., **Niles, M.T.**, Ivakhiv, A. What's in your body of water? Reducing the psychological distance of pharmaceutical pollution through metaphoric framing in risk communication. In Review at *Risk Analysis*.
- 3) **Niles, M.T.** and J. Rudnick. A comparative analysis of agricultural development policy networks for climate resilience and food security. In Review at *World Development*.
- 2) Hurley, S., Greenleaf, H.*, **Niles, M.T.**, Caswell, M. Visualizing Climate Change: An effective tool for agricultural adaptation? In Review at *Elementa*.
- 1) Conrad, Z., **M.T. Niles**, D. Neher, E. Roy, N. Tichenor, L. Jahns. Relationship between food waste, diet quality, and environmental sustainability Submitted to *PLOS One*.

PEER-REVIEWED PUBLICATIONS IN PREPARATION

- 9) **Niles, M.T.**, Waterhouse, H., Kroopf, S., Parkhurst, R. Policy options to streamline the carbon market potential for agricultural nitrous oxide emissions. To be submitted to *Climate Policy*.
- 8) **Niles, M.T.**, Rudnick, J., Lubell, M. The role of community social capital for smallholder food security in an age of climate change. To be submitted to *Proceedings of the National Academy of Sciences*.
- 7) **Niles, M.T.**, Reagan, A., Danforth, C. Knowledge brokers for food security during extreme U.S. climate shocks. To be submitted to *PLOS One*.
- 6) **Niles, M.T.** and B. Kaye-Blake. Farmer time horizons and decision-making: A review. To be submitted to *Agriculture and Human Values*.
- 5) Christ, A.*, and **M.T. Niles**. Role of community social capital for acute food security following an extreme weather event. To be submitted to *Rural Sociology*.
- 4) **Niles, M.T.**, Wiltshire, S., Chintala, R. Trends in U.S. dairy greenhouse gas emissions and changes in manure management strategies 2003-2014. To be submitted to *Environmental Research Letters*.
- 3) Bevet, S., **Niles, M.T.**, Pope, L., You Can't "Nudge" Nuggets: An Investigation of Late Night Dining With Behavioral Economics Interventions. To be submitted to *Appetite*.

- 2) Cortner, O., Garrett, R.D., Valentim, J., Ferreira, J., **Niles, M.T.**, and Reis, J. Local perceptions of benefits and challenges to adopting integrated crop and livestock systems in Brazil. To be submitted to *Agricultural Systems*.
- 1) Shah, S.H., Wagner, C.H., Sanga, U., Park, H., **Niles, M.T.**, de Lima Demange, L.H.M, Gueiros, C. Can agricultural adaptation to hydro-climatic change be explained by household “capitals”? Household evidence from the Indo-Gangetic Plains. To be submitted to *Global Environmental Change*.

PUBLISHED ABSTRACTS

- 2) **Niles, M.T.** Drivers and barriers to farmer adoption of sustainable practices. Bioethics Symposium, American Dairy Science Association. 2017. *Journal of Dairy Science*. Vol 100: Supplement 2.
- 1) Brown, M.E. & **Niles, M.T.** Financial strategies moderate weather impacts on food security outcomes. 2016. American Geophysical Union Fall Meeting Abstracts.

ACADEMIC REPORTS

- 1) **Niles, M.T.**, Ahuja, R., Esquivel, J., Mango, N., Duncan, M., Heller, M., Tirado, C. 2017. Climate change & food systems: assessing impacts and opportunities. (Draft Report, Final Report Forthcoming). Meridian Institute. Available at <http://bit.ly/2oFucpe>.

GOVERNMENT REPORTS

- 2) Schattman, R.E., Wiener, S., Roesch-McNally, G., **Niles, M.T.**, Iovanna, R., Carey, M. 2017. Farm Service Agency: National Survey on Climate and Weather. A report to the USDA Farm Service Agency.
- 1) Roesch-McNally, G., Wiener, S., Schattman, R.E., **Niles, M.T.**, Lawson, D., Wilson, M. 2017. Natural Resources Conservation Service: National Survey on Climate and Weather. A report to the USDA Natural Resources Conservation Service (NRCS).

POLICY, BUSINESS AND POPULAR PUBLICATIONS

- 6) **Niles, M.T.** 2016. Cheese Addiction? In *The Oxford Companion to Cheese*. Ed: Catherine Donnelly. Oxford University Press. 888 pp. (Book Winner of the 2017 James Beard Award in Reference and Scholarship)
- 5) **Niles, M.T.** and Goldberg, R. 2015. The China Dairy Farming Institute: New frontiers in innovative collaborations. Harvard Business School Case Study. No. N1-915-418.
- 4) **Niles, M.T.**, F. Hoefner, A. Lotti, and J. Obudzinski. 2013. Strengthening the U.S. agricultural research, education, and extension system: A reorientation model to address 21st century challenges. An issue paper written for AGree food policy organization.
- 3) Diaz, D., B. Rashford, S. De Gryze, S. Zakreski, R. Dell, and **M.T. Niles**. 2012. Evaluation of avoided grassland conversion and cropland conversion to grassland as potential carbon offset project types. An issue paper written for the Climate Action Reserve.
- 2) Tomaselli, P. and **M.T. Niles**. 2010. “Changing the law: The road to reform” *in*, Imhoff, D, ed, *The CAFO Reader*. University of California Press.
- 1) Nierenberg, D. and **M.T. Niles**. 2010. “Climate change and animal production” *in*, Moby and Park M, *eds.*, *Gristle: Reasons to think twice about meat*. The New Press.

GRANTS AND FELLOWSHIPS

Total received in direct support: \$693,293 (since UVM \$373,497); total pending: \$6,239,793

- In Review Schattman, R. et al. “The whole farm water use, access, and quality on specialty crop farms planning project” Proposal submitted December 2017 to USDA Specialty Crop Research Initiative. \$50,000
- In Review Roy et al. “Synergistic use of recycled household and community nutrients to deliver balanced fertilization in Northeast agriculture” Proposal submitted October 2017 to Northeast SARE- Research for Novel Approaches in Sustainable Agriculture. \$190,688

- In Review Zhang, Q., et al. “INFEWS: U.S.-China: Integrated Multiscale Modeling of Food-Energy-Water (FEW) Networks”. Proposal submitted October 2017 to National Science Foundation INFEWS U.S.-China Program. \$499,201 (UVM: \$119,710)
- In Review Easton, Z. et al. “A model for 21st century water: Ensuring sustainability of an increasingly valuable resource” Proposal submitted August 2017 to USDA Water for Food Production Program. Requested funds: \$4,999,998 (UVM: \$400,000)
- In Review **Niles, M.T.**, et al. “Assessing climate perceptions and developing adaptation resources for small, medium and beginning farms” Proposal submitted July 2017 to USDA Small and Medium Farms Program. Requested funds: \$499,906
- 2018 **Niles, M.T.** and Roy, E. “Identifying nitrogen hotspots in the United States to improve nitrogen management through farmer incentive programs” UVM Gund Institute. *Total Award: \$35,973*
- 2017 Schattman, R., and **Niles, M.T.** CALS/Extension Seed Grant. *Total Award: \$5,000*
- 2017 Snow, V., **Niles, M.T.**, Garrett, R., Gaudin, A., Agnew, R., Parker, R. “Assessment of integrated sheep-viticulture farming systems”. New Zealand Royal Society Catalyst Fund. *Total Award: NZD \$58,600*
- 2017 **Niles, M.T.** “Assessing the cumulative impact of policy stacking on Vermont farmers”. James M. Jeffords Grant Program for Policy Studies, University of Vermont. *Total Award: \$10,586*
- 2017 **Niles, M.T.** “Assessing dairy farmer decisions and barriers for adopting sustainable manure management systems” U.S. Center for Dairy Innovation. *Total Award: \$29,698*
- 2016 Neher, D.A., **Niles, M.T.**, and Roy, E. Incentive funds for submission of an NSF INFEWS proposal University of Vermont. *Total Award: \$5,000.*
- 2016 **Niles, M.T.** “Assessing the effect of climate change and shocks on food security at varying scales” USDA HATCH Experiment Station. *Total Award: \$59,713.*
- 2016 Young, C., Howitt, R., MacEwan, D., Mehta, V., **Niles, M.T.** “Implementing California’s Sustainable Groundwater Management Act: Farmer perceptions and the balance of groundwater and economic sustainability”. USDA Water for Agriculture Program. *Total award: \$484,764. (UVM total: \$165,927)*
- 2015 **Niles, M.T.** “Assessing the acute and long-term impacts of a climate shock on Vermont food security”. Office of Vice President of Research-UVM. *Total award: \$3,000.*
- 2014 **Niles, M.T.** and R. Garrett. Diversifying and integrating agricultural practices in Brazil, New Zealand and the United States for climate smart agriculture and sustainable development. Harvard University Sustainability Science Program. \$20,000
- 2013 Switzer Foundation Fellow for Environmental Leadership, \$15,000
- 2013 Henry A. Jastro Shields Research Fellowship 2013-2014, \$3,000
- 2012 AgResearch, New Zealand, \$16,000
- 2010-2014 National Science Foundation Graduate Research Fellowship, \$130,500
- 2010-2013 National Science Foundation Interdisciplinary Graduate Education and Research Traineeship Funding for New Zealand research, \$16,181
- 2009 Ernest E. Hill Climate Change Fellowship, \$2,500
- 2009-2010 National Science Foundation Interdisciplinary Graduate Education and Research Traineeship, \$115,000

HONORS AND AWARDS

- 2014 Next Generation Leadership Award, Right to Research Coalition
- 2013 Board Member of the Year, National Association of Graduate-Professional Students
- 2013 Best Student Poster, *New Zealand Climate Change Conference, Palmerston North, NZ*
- 2013 Best Student Poster-Social Sciences, AAAS 2013 Annual Meeting, *Boston, MA*
- 2013 Graduate Student Leadership Recognition Award, UC Davis
- 2012 Best Conference Presentation, UC Davis Interdisciplinary Graduate Symposium

- 2010 American Institute of Biological Sciences Emerging Public Policy Leadership Award
 2009 Fulbright Scholar Award Recipient- Zambia

TEACHING EXPERIENCE

- 2017- "Professional Development", Graduate Food Systems Program, University of Vermont
 2016- "Food Systems Science and Policy", Graduate Food Systems Core Course, University of Vermont
 "Food Policy & Politics", Undergraduate Nutrition and Food Sciences, University of Vermont
 2013, 2014 Associate Instructor, "Current Issues in the Environment", co-taught the course (10 lectures on environmental policy, food/agriculture policy, climate change, food system sustainability, food justice, and water resources)
 Department of Environmental Science and Policy, UC Davis, Davis, CA
 2007 Environmental Staff, Appalachian Mountain Club, Pinkham Notch, NH

ADVISING EXPERIENCE

- 2015- University of Vermont:

Current Working Groups:

Advisor, "Agrarian adaptation in Northern India". Socio-environmental synthesis center (SESYNC) graduate student pursuits working group.

Current PhD Advising:

PhD Advisor to Serge Wiltshire, PhD, Food Systems
 PhD Advisor to Luis Alexis Rodriguez Cruz, PhD, Food Systems
 Committee Chair, Courtney Hammond-Wagner, PhD, Natural Resources
 Committee Chair, Hilary Byerly, PhD Natural Resources
 Committee Chair, Ben Dube, PhD Natural Resources

Current Master's Advising:

Advisor, Emilie Riddle, MS, Dietetics
 Project Advisor, Olivia Pena, MS, Food Systems
 Committee Chair, Samantha Lewandowski, MS, Community Development and Applied Economics
 Committee Chair, Rachel Mason, MS, Plant and Soil Sciences
 Committee Member, Sam Bevet, MS, Food Systems

Undergraduate Advising:

26 advisees in Nutrition and Food Sciences/Food Systems
 Distinguished Undergraduate Research Thesis Advisor, Marissa Carranza, Nutrition and Food Sciences

Previous Advising:

Master's Thesis Advisor to Alana Christ, MS, Food Systems (completed September 2017)
 Committee Chair, Alexandra Millar, MS, Environmental Studies (completed July 2017)
 Undergraduate Honors Thesis Advisor, Gina Cassara, Environmental Studies. "The Impact of Act 148 on Food-Insecure Populations in Chittenden and Essex Counties of Vermont". Environmental Studies Electronic Thesis Collection. 42. <http://scholarworks.uvm.edu/envstheses/42> (2017 completed)
 Undergraduate Research Advisor, Drew Walsh, Summer Undergraduate Research Fellowship (2016 completed)

- 2015 Harvard University:

- Master's Thesis Co-Advisor to Gabrielle Bastien, Harvard Extension School
 - Research Advisor, Advising and management of 3 graduate and 1 undergraduate research assistants.
Project: Diversifying and integrating agricultural practices in Brazil, New Zealand and the United States for climate smart agriculture and sustainable development. Sustainability Science Program

ORGANIZED WORKSHOPS AND ORAL SESSIONS

- 1) Leorges Moraes da Fonseca, **Niles, M.T.**, "Bioethics Symposium: Sustainable Dairy Farm". Co-organizer, Organized Oral Symposium. *American Dairy Science Association. Pittsburgh, PA. June 2017.*

- 2) Poortvliet, M. and **M.T. Niles**. “Relationships between climate experiences, risk perceptions, and beliefs around the world.” Co-organizer, Organized Oral Symposium. *Society for Risk Analysis. San Diego, CA*. December 2016.
- 3) **Niles, M.T.** and R. Garrett. “Synergies for food production, conservation and rural development in a changing climate.” Co-organizer, Organized Oral Session. *Ecological Society of America Conference. Baltimore, MD*. August 2015.
- 4) Hillis, V., T. Waring, J. Brooks, **M.T. Niles**. “Evolutionary approaches to the commons: Empirical applications of a multi-level evolutionary framework.” Co-organizer, Organized Oral Session. *International Society for the Study of the Commons Conference. Alberta, CN*. May 2015.
- 5) Garrett, R. and **M.T. Niles**. “Workshop on integrative social and ecological modeling of crop and livestock systems” Co-organizer. International Workshop funded by the National Science Foundation. *University of California, Davis, Davis CA*. April 2015.

INVITED LECTURES, PANELS, COURSES AND WORKSHOPS

- 1) Invited Seminar Speaker. Biology and Ecology Seminar. October 2017. **Susquehanna University. Selinsgrove, PA**. “Food Systems and Food Security in a Warming Climate”.
- 2) Invited Seminar Speaker. Seminar on Climate Change. May 2017. **College of the Atlantic. Bar Harbor, ME**. “Food Security and Climate Change”.
- 3) Invited Plenary Speaker. May 2017. **Global Alliance for the Future of Food. Chantilly, France**. “Climate Change and Food Systems: Impacts and Opportunities”.
- 4) Invited Speaker. Harvard Food+ Conference. February 2017. Weatherhead Center for International Affairs. **Harvard University, Cambridge, MA**. “Social Capital for Achieving Food Security in a Changing Climate”.
- 5) Invited Speaker. Global Environment Speaker Series. February 2017. Department of Geography and the Environment, **University of Richmond, Richmond, VA**. “Achieving Food Security in a Changing Climate”
- 6) Accepted Participant. July 2016. Climate Change, Global Food Security, and the U.S. Food System. **US Department of Agriculture and National Center for Atmospheric Research Joint Workshop. Boulder, CO**.
- 7) Invited Moderator. May 2016. Sustainability Science Symposium. **Harvard University. Cambridge, MA**.
- 8) Invited Speaker. May 2016. Scholarly Communication Lab, University Library. **Dartmouth College. Hanover, NH**. “Using Open as an Asset: Opportunities to Broaden Your Impact”.
- 9) Invited Keynote Speaker. April 2016. **Iowa State University Annual Faculty Senate Conference, Ames, Iowa**. “Building a Career on Open Access”.
- 10) Invited Conference Speaker. March 2016. **Scholarly Publishing and Academic Research Coalition Annual Meeting. San Antonio, Texas**. “I’m Here, I Made It... Now How do I do This?”
- 11) Invited Workshop Speaker. December 2015. **Price Waterhouse Coopers**. “Environmental Constraints on New Zealand Agriculture.” Resource Economics Workshop Series. Wellington, New Zealand.
- 12) Invited Seminar Speaker. December 2015. **Queensland University of Technology, Brisbane, Australia**. “The Psychological Distance of Climate Change: Farmer Perceptions and Responses.” School of Economics and Finance: Resource and Development Economics and Public Policy Group Seminar.
- 13) Invited Seminar Speaker. November 2015. **Wageningen University, Wageningen, Netherlands**. “The Psychological Distance of Climate Change: How Farmers Perceive and Respond to Climate Change and its Policies.”
- 14) Invited Seminar Speaker. October 2015. **Mitchell Center for Sustainable Solutions, University of Maine, Orono, Maine**. “Climate Change and Agriculture: Views from the Farm.”
- 15) Invited Keynote Speaker. September 2015. **Conservation Coaches Network (The Nature Conservancy and World Wildlife Fund collaboration). Barcelona, Spain**, “Unlocking Behavior Change in Conservation”
- 16) Selected Short Course Participant. **National Center for Socio-Ecological Synthesis (SESYNC). Annapolis, MD**. July 2015. “Teaching Socio-Environmental Systems”.
- 17) Invited Speaker. April 2015. **Gund Institute of Ecological Economics, University of Vermont, Burlington, Vermont**, “The Psychological Distance of Climate Change.”
- 18) Invited Lecturer. April 2015. Agribusiness and Food Policy Course, **Harvard University, Cambridge, Massachusetts**, “Dairy sustainability in China: A case study of Nestlé’s farm training programs.”
- 19) Invited Webinar. March 2015. **Switzer Foundation**. “Open Access Research: Opportunities to Broaden your Impact.”
- 20) Invited Speaker. November 2014. Open Ambassadors Conference, **Max Planck Institute, Munich, Germany**, “Talking open access with your colleagues and advisors.”

- 21) Invited Panelist. 2014. OpenCon Open Access to Research Conference, **American University School of Law, Washington, D.C.**, “Successful student initiatives for open access.”
- 22) Invited Workshop Presenter. 2014. National Association of Graduate-Professional Students National Conference, **University of Missouri, Columbia, Missouri**, “Developing strategic and effective advocacy initiatives and campaigns.”
- 23) Invited Moderator. 2014. **The World Bank, Washington D.C.** “Generation Open”, Kickoff event for International Open Access Week.
- 24) Invited Workshop Presenter. 2013. Berlin 11 Open Access Student Satellite Conference, **Max Planck Institute, Berlin, Germany**, “Institution and national open access advocacy workshop.”
- 25) Invited Speaker. 2013. **Right to Research Coalition General Assembly, Budapest, Hungary**, “National advocacy strategies for open access policies.”
- 26) Invited Speaker. 2013. **Marlborough Research Centre, Marlborough, New Zealand**, “Understanding Marlborough wine grape grower perspectives and responses to a changing climate and policies.”
- 27) Invited Speaker. 2012. Climate Change and California’s Water Supply Conference. **UC Davis, Davis, CA**. “Farmer adaptation to climate change: How farmers perceive impacts and mitigation.”
- 28) Invited Monthly Public Lecture. Niles, M.T., J. Abbott, J. Balachowski, S. Chen, C. Cortez. **Tahoe Environmental Research Center. UC Davis. Incline Village, NV**. “Fragrance chemicals: What’s the stink?”
- 29) Invited Lecturer. 2011. Biology Department, **Centre College, Danville, Kentucky**, “Environmental justice”, “Global commerce”, “Environmental Economics” (focus on food and agricultural systems, food justice issues)
- 30) Invited Lecturer. 2010. “Conservation management”, **UC Davis, Davis, CA**, “Using social network analysis for effective conservation management.”
- 31) Invited Seminar Speaker. 2010. Biology Department, **Susquehanna University, Selinsgrove, PA**, “The ecology of meat: Why solutions aren’t as simple as you think.”
- 32) Invited Lecturer. 2010. “Introduction to ecology”, **Susquehanna University, Selinsgrove, PA**, “Governing the commons: Environmental laws with a focus on climate change.”
- 33) Invited Lecturer. 2009. “Environmental engineering”, **The Catholic University of America, Washington D.C.**, “Water resources and the need of agriculture and food systems
- 34) Invited Lecturer. 2008. “Honors environmental science and engineering”, **The Catholic University of America, Washington D.C.**, Food sustainability (developed and taught 4 classes related to agriculture and food systems including food justice and access issues and agricultural/food systems sustainability).

ACADEMIC CONFERENCE PRESENTATIONS

* Indicates a student presenter

- 1) Schattman, R., Weiner, S., Rosche McNally, G., **Niles, M.T.** “Climate change beliefs, risk perceptions, and use of climate and weather tools: Reporting evidence from a national FSA and NRCS employee survey”. *Soil and Water Conservation Society*. Oral Presentation (given by R. Schattman). *Madison, WI*. July 2017.
- 2) Greenleaf, H*, Hurley, S., **Niles, M.T.**, Caswell, M., Schattman, R. “Using place-based landscape visualizations for stakeholder communication about agricultural adaptation to climate change”. *American Water Resources Association Conference- Climate Change Solutions*. Oral Presentation (given by H. Greenleaf). *Tysons, VA*. June 2017.
- 3) **Niles, M.T.** “Drivers and barriers to farmer adoption of sustainable practices” Bioethics Symposium: Sustainable Dairy Farm”. *American Dairy Science Association*. Oral Presentation. *Pittsburgh, PA*. June 2017.
- 4) Rudnick, J.*, **Niles, M.T.**, Lubell, M. “Climate change organization network structures across multiple places and regions” *International School and Conference on Network Science*. Oral Presentation (given by J. Rudnick). *Indianapolis, IN*. June 2017.
- 5) Chriest, A*, **Niles, M.T.** “Community Food Insecurity Caused or Worsened by Extreme Weather Events - Social Capital Helps Mitigate Food Insecurity During and After Climate Shocks”. *Future of Food and Nutrition Conference*. Poster Presentation. *Boston, MA*. April 2017.
- 6) Wiltshire, S.W.*, Stratton, C., Langevin, A., **Niles, M.T.** "Closing Projected Gaps Between Global Food Supply and Demand: Using Evolutionary Computation to Optimize Public Investments to 2050 and Beyond". *Future of Food and Nutrition Conference*. Poster Presentation. *Boston, MA*. April 2017.
- 7) **Niles, M.T.** and M. Brown. “Smallholder Farmer Climate Risks and Resilience: Implications for Food Security” *Society for Risk Analysis*. Oral Presentation. *San Diego, CA*. December 2016.

- 8) **Niles, M.T.** and M. Brown. "Smallholder Farmer Climate Risks and Resilience: Implications for Food Security" *American Geophysical Union*. Oral Presentation (Given by M. Brown). *San Francisco, CA* December 2016.
- 9) Long, R., Ingram, K., Kross, S., **Niles, M.T.**, O'Rourke, D., and Bayless, M. "Bat Conservation in California's Central Valley". *North American Society for Bat Research*. Oral Presentation (given by R. Long). *San Antonio, TX*. October 2016.
- 10) Rudnick, J.*, **Niles, M.T.**, Lubell, M.N. "Organizational Coordination to Build Climate-Smart Food Systems." *POLNET political networks conference*. Poster presentation (given by J. Rudnick). *St. Louis, MO*. June 2016.
- 11) **Niles, M.T.** "Better than the sum of its parts? Communicating and collaborating across disciplines and cultures." Sustainability Science Symposium. *Harvard University, Cambridge, MA*. May 2016.
- 12) Rudnick, J.*, **Niles, M.T.**, Lubell, M.N. "Network structures among climate change agriculture support organizations in East Africa." Poster Presentation (given by J. Rudnick). *American Association of Geographers Conference, San Francisco, CA*. April 2016.
- 13) **Niles, M.T.**, J. Salerno, M. Lubell. "Farmers and Climate Change". Oral Presentation (given by M. Lubell). *American Geophysical Union Conference, San Francisco, CA*. December 2015.
- 14) **Niles, M.T.** and J. Salerno. "Climate shocks and food security of smallholder farmers." Oral Presentation. *Ecological Society of America Conference, Baltimore, MD*. August 2015.
- 15) Garrett, R., **M.T. Niles**, J. Gil, J. Valentim. "Enabling conditions for integrated crop and livestock systems the United States, Brazil, and New Zealand: A comparative analysis of incentives and barriers across three regions." *World Congress on Integrated Crop-Livestock-Forest Systems (WCCLF) and the 3rd International Symposium on Integrated Crop-Livestock Systems (ICLS3) - Brasilia, Brazil* on July 12-17, 2015
- 16) **M.T. Niles**. "Achieving climate cooperation among farmers". Oral Presentation. *International Society for the Study of the Commons Conference, Alberta, CN*. May 2015.
- 17) **Niles, M.T.** "How do farmers view climate change and its challenges? Poster Presentation. *American Association for the Advancement of Science Conference, San Jose, CA*. February 2015.
- 18) **Niles, M.T.** "Achieving global and local climate change cooperation among New Zealand and California farmers." Oral Presentation. *Society for Human Ecology International Conference, Bar Harbor, ME*. October 2014.
- 19) **Niles, M.T.** "How could we do better?" Panelist. Innovation for vulnerable farmers: Drought and water scarcity adaptation technologies. *Harvard University, Cambridge, MA*. September 2014.
- 20) **Niles, M.T.** and M. Lubell. "How climate change policy perceptions affect climate attitudes and behaviors in agricultural systems in New Zealand and California." Oral Presentation. *Midwest Political Science Association Annual Meeting, Chicago, IL*. April 2014.
- 21) **Niles, M.T.**, M. Lubell, M. Brown. "How limiting factors drive agricultural adaptation to climate change." Poster Presentation. *American Association for the Advancement of Sciences Annual Meeting, Chicago, IL*. February 2014.
- 22) **Niles, M.T.**, M. Brown, R. Dynes, M. Lubell. "Understanding New Zealand and California farmer attitudes towards climate policy." Oral Presentation. *New Zealand Climate Change Conference, Palmerston North, New Zealand*. May 2013.
- 23) **Niles, M.T.**, M. Brown, R. Dynes, M. Lubell. "Present and potential future adoption of agricultural mitigation and adaptation practices of New Zealand farmers." Oral Presentation. *New Zealand Climate Change Conference, Palmerston North, New Zealand*. May 2013.
- 24) **Niles, M.T.**, M. Brown, R. Dynes, M. Lubell. "Not everyone believes in climate change." Poster Presentation. *New Zealand Climate Change Conference, Palmerston North, New Zealand*. May 2013.
- 25) **Niles, M.T.**, M. Lubell, V.R. Haden, L. Jackson. "Climate change policy adaptation among California farmers." Poster Presentation. *Climate Smart Agriculture Conference, UC Davis, Davis, CA*. March 2013.
- 26) **Niles, M.T.**, M. Lubell, V.R. Haden, L. Jackson. "Climate change policy adaptation among California farmers." Poster Presentation. *American Association for the Advancement of Sciences, Boston, MA*. February 2013.
- 27) **Niles, M.T.**, M. Lubell, V.R. Haden, L. Jackson. "Climate change policy adaptation among California farmers." Poster Presentation. *California Climate Change and Agriculture Annual Conference, UC Davis, Davis, CA*. February 2013.
- 28) **Niles, M.T.**, M. Brown, R. Dynes, M. Lubell. "The New Zealand emissions trading scheme and farmer decision making." Oral Presentation. *Soil Science, Agronomy and Crop Science Societies Annual Meeting, Cincinnati, Ohio*. October 2012.

- 29) M. Lubell, V. Haden, **M.T. Niles**, J. Perlman, L. Jackson. “Global perspectives and local impacts: Mitigation, adaptation, and agricultural decision-making.” Oral Presentation. *Midwest Political Science Association Annual Meeting*. Chicago, IL. April 2012.
- 30) **Niles, M.T.**, V.R. Haden, M. Lubell, L. Jackson. “Global perspectives and local impacts: Farmers’ climate change perceptions and adoption of climate practices in California.” Poster Presentation. *Planet under Pressure Conference*. London, UK. March 2012.
- 31) **Niles, M.T.** “The effect of local and global climate attitudes on farmer adoption of mitigation and adaptation practices.” Poster Presentation. *American Association for the Advancement of Sciences*. Vancouver, CN. February 2012.
- 32) **Niles, M.T.**, M. Brown, M. Lubell. “Can policies cause agriculture to adopt climate change practices? A case study of the New Zealand emissions trading scheme”. Oral Presentation. *Agriculture, Food and Human Values Conference*. Missoula, MT. June 2011.
- 33) **Niles, M.T.** “Social network analysis for monitoring and evaluation in natural resource management.” Oral Presentation. *UC Davis Ecology Symposium*. Davis, CA, February 2011.
- 34) **Niles, M.T.**, M. Brown, M. Lubell. “Industry perspectives of climate change policies: Agriculture in the New Zealand emissions trading scheme.” Poster Presentation. *Governor’s Global Climate Summit*. UC Davis. Davis, CA. November 2010.
- 35) Jackson, L., V.R. Haden, D. Purkey, V. Mehta, H. Lee, D. Sumner, S. Wheeler, M. Tomuta, A. Hollander, A. O’Geen, B. Orlove, M. Lubell, J. Perlman, **M.T. Niles**. “Local agricultural strategies for mitigating and adapting to climate change in California: A case study from Yolo County.” Poster Presentation. *Governor’s Global Climate Summit*. UC Davis. Davis, CA. November 2010.

OUTREACH PRESENTATIONS

- 1) **Niles, M.T.** “Beyond our Farm Gates: Impact of Climate Change on U.S. Agriculture”. Invited Speaker. *Poulin Grain Dairy Annual Meeting*. Colchester, VT. October 2016.
- 2) **Niles, M.T.** “Beyond our Farm Gates: Impact of Climate Change on U.S. Agriculture”. Invited Keynote. *Vermont Feed Dealers Association*. Stowe, VT. October 2016.
- 3) **Niles, M.T.** “The true cost of food”. Invited Panelist. *Cooking for Solutions Conference at the Monterey Bay Aquarium*. Monterey, CA. May 2010.
- 4) **Niles, M.T.** “How can food dollars influence climate change action?” Invited Oral Presentation. *California Certified Organic Farmers Annual Conference*. Chico, CA. February 2010.
- 5) **Niles, M.T.** “The current state of genetically-modified crops and their potential to combat climate change.” *California Climate Change and Agriculture Summit*. UC Davis. Davis, CA. October 2009.
- 6) **Niles, M.T.** “Reducing foodprints: The role of meat in climate change.” Invited Oral Presentation. *Chefs Collaborative Summit*. Chicago, IL. September 2009.
- 7) **Niles, M.T.** Youth Delegate, Kellogg Food and Society Conference. San Jose, CA. April 2009.
- 8) **Niles, M.T.** “Reducing carbon foodprints: What the government is demanding, the public expects and the industry can do.” *Natural Products West Expo, Responsible Packaging Forum*. Anaheim, CA. March 2009.

SELECTED MEDIA INTERVIEWS AND FEATURES

“[Cash is best when tackling hunger caused by drought: study](#)”, Reuters, Top 10 Stories. November 27, 2017.

“[Weather Dictates Food Security Plans](#)”, Innovators Magazine. November 27, 2017

“Cows, Crops, and Social Media” Featured guest on Across the Fence. January 30, 2017

“Open Research Unlocks Career Opportunities: An interview featuring Meredith Niles” Featured guest on PLOS Cast and PLOS Blogs. May 25, 2016

Research featured in:

Science Daily, Reuters, Scientific American, Huffington Post, MSN Money, Inside Higher Ed, New Zealand Herald, New Zealand Dominion Post, Climate Wire, Radio New Zealand, Capital Public Radio, Maryland Public Radio, Environmental News Network, E Magazine, Atlanta Journal Constitution, Santa Monica Daily Press, The Harvard Crimson, Political Affairs Magazine, Futurity, North Bay Public Media

UNIVERSITY SERVICE

University of Vermont:

- 2017- President, Phi Beta Kappa
- 2017- Search Committee Member, NFS Public Health Nutrition Position
- 2017- Faculty Member, Real Food Challenge Group
- 2017- Faculty Advisor, Feel Good Group
- 2017- Reviewer, Summer Undergraduate Research Fellowship
- 2017- Collections Subcommittee, Library Advisory Committee
- 2016- Library Advisory Committee
- 2016- Food Systems Major Advisor, Nutrition/Food Sciences Concentration
- 2016- Food Systems Undergraduate Advisory Committee
- 2016- Comprehensive Exam Member, Food Systems PhD Students (4 to date)
- 2016 Moderator, Lieutenant Governor Candidate Forum, United Academics, April 2016.
- 2016-2017 Phi Beta Kappa Selection Committee, University of Vermont
- 2015- Admissions Committee, Food Systems Graduate Program, University of Vermont

University of California, Davis:

- 2013 Legislative Liaison, University of California Student Association Board of Directors
- 2013 UC Davis Student Representative, Committee for the Next UC President
- 2013 Chancellor's Post-Incident Review Committee Member
- 2012-2013 External Chair, Government and Legislation, Graduate Student Association
- 2012-2013 Co-Chair, Policy Committee, Society for Conservation Biology
- 2011 Conference Co-Director, "The Business of Ecology: Private Sector and Academic Collaborations"
- 2010-2012 Executive Committee, Russell Ranch Research Facility
- 2009-2012 External Board Member, Agricultural Sustainability Institute
- 2009-2011 Co-Chair, Ecology Graduate Student Association
- 2008-2010 Organizing Committee, Symposium on Sustainable Food and Agriculture

ACADEMIC SERVICE

- 2016-2018 Bioethics Program Committee, American Dairy Science Association
- 2014-2018 Board of Directors, Public Library of Science (PLOS)
- 2017- Editorial Experience
 - Review Editor, Editorial Board of Climate-Smart Food Systems, *Frontiers in Sustainable Food Systems*
 - Associate Guest Editor- *California Agriculture* (2017)
- 2013-2017 Referee Experience
 - Grant Reviewer: Foundation for Food and Agriculture Research- Food Waste Solutions (2017), USDA Climate Master's Program (2017), National Science Foundation Economics Program (2016), USDA AFRI Food Security Call and Climate Change Resilience Call (2015), European Research Council (2015), Global Center for Food Systems Innovation (2015)
 - Manuscript Referee- *Agriculture and Human Values; California Agriculture; Climate; Climate Services; Climate, Weather and Society; Climatic Change; Conservation Letters; Environment and Behavior; Environmental Management; Global Environmental Change; Global Food Security, Journal of Agricultural Science; Journal of Environmental Planning and Management; Journal of Environmental Quality, Journal of Environmental Studies and Science; Journal of Society and Natural Resources; PLOS Biology; Renewable Agriculture and Food Systems; Springer Plus; Sustainability; Sustainability Science; WIREs Climate Change.*

LEADERSHIP AND COMMUNITY SERVICE

- 2017 Nutrient Management Offset Protocol Version 2.0 Workgroup Member, Climate Action Reserve
- 2016 Switzer Foundation Fellow Selection Committee
- 2015 Organizing Committee, OpenCon Conference for Early Career Researchers, Brussels Belgium, November 2015.
- 2014 Women and the Workforce Taskforce, Office of Congressman John Garamendi
- 2013-2014 Director, Just Hire One Veteran's Job Initiative, Jobs Task Force- Office of Congressman John Garamendi
- 2013 Executive Board, Director of Legislative Affairs, National Association of Graduate-Professional Students

2011-2012 Nutrient Management Offset Protocol Workgroup Member, Climate Action Reserve

ADDITIONAL COURSES AND TRAINING

Non-normal hierarchical modelling, 2-day course with Statistical Horizons at University of Chicago. June 2016.

PROFESSIONAL AFFILIATIONS

Ecological Society of America, American Dairy Science Association, Society for Risk Analysis