

MEREDITH T. NILES

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EDUCATION AND TRAINING

- 2014-2015 Giorgio Ruffolo Post-doctoral Research Fellow in Sustainability Science
Harvard University, Kennedy School of Government, *Cambridge, MA*
Advisor: Dr. William C. Clark
Research: *Assessing Knowledge and Innovation Systems for Climate Smart Agriculture*
- 2009-2014 PhD, Ecology, Human Ecology and Environmental Policy Concentration
University of California-Davis, Department of Environmental Science and Policy, *Davis, CA*
Advisor: Dr. Mark N. Lubell
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

- 2021- Associate Professor
Department of Nutrition and Food Sciences & Food Systems Program
Faculty Core, Complex Systems Center (since 2020)
Fellow, Gund Institute for Environment (since 2017)
College of Agriculture and Life Sciences, University of Vermont, Burlington VT
- 2021- Associate Director
University of Vermont/ USDA Agricultural Research Service Food Systems Research Unit
College of Agriculture and Life Sciences, University of Vermont, Burlington VT
- 2015-2021 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
- 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, Grasslands Research Center, **AgResearch Ltd.**, *Hamilton/ 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.*

Relevant Consulting Experience:

- Farmer Livelihood Changes with Climate Smart Agriculture, **Climate Change Agriculture and Food Security (CAAFS) Program**, (2021)
- Expanding the Potential of Carbon Markets in Agriculture, **USDA**, (2020)
- Transformative Climate Adaptation for Crop Systems, **World Resources Institute & TetraTech**, (2018)
- Climate Change and Food Systems Impacts and Opportunities, **Meridian Institute & Global Alliance for the Future of Food**, (2017-2018)
- Nitrogen Management Carbon Offset Protocol Expansion, **Environmental Defense Fund**, (2016-2018)
- Climate Change Mitigation Through Livestock, Food Waste and Dietary Changes, **Natural Resources Defense Council**, (2014-2015)
- Nitrogen Management Project Offset Protocol, **Climate Action Reserve**, (2013-2014)
- Environment and Sustainability Consultant, **Millstone Advisors**, (2012-2013)
- Grasslands Carbon Offset Protocol, **Climate Action Reserve**, (2012)
- Environmental Consultant-Manure Management, **Organic Valley Dairy Cooperative**, (2011)
- Food and Environment Consultant, **Clif Bar Company**, (2011)
- Social Network Analyst, **Agency for Educational Development/US Agency for International Development**, (2010)
- Agriculture and Science Consultant, **National Cooperative Grocers Association**, (2009-2011)

SCHOLARSHIP STATEMENT AND SCIENTIFIC CONTRIBUTIONS

I am an interdisciplinary food systems scientist that studies behavior and policy in social-ecological food systems and health. My research focus is primarily in advancing efforts to achieve sustainable food security and improve health and environmental outcomes from food systems. I am deeply committed to ensuring my academic research is available to the public and stakeholders to meet a land-grant mission, and publish in open access journals, develop research and policy briefs, and archive my research in publicly available repositories. My major career contributions to science include:

1. COVID-19 Impacts on Food Security and Food Systems: My most recent research focuses on the impact of the COVID-19 pandemic on food access, food security and health outcomes, especially in rural regions. This work began in Vermont in March 2020, but then integrated multiple institutions to implement common survey instruments and analysis. This effort grew into NFACT- The National Food Access and COVID Research Team, which currently involves 18 study sites across 15 states in the U.S. I currently serve as Director of NFACT, and we are integrating data across study sites and conducting ongoing studies and analysis. NFACT has collectively published 40 policy briefs and 10 publications since June 2020. All survey instruments are publicly available through Harvard Dataverse.

2. Food and Nutritional Security During Global Environmental Change: This work has involved mixed methods ranging from interviews to global scale models and integration of social and ecological data. The novelty of this work is in the integration of climate data with sociological data measuring food security and other human impacts, especially across scales. Emerging efforts in this area are examining how nutritional stability and diet diversity may shift with climate and other environmental changes. This work has demonstrated clear links between climate shocks/extreme events, decreased rainfall, increased temperatures, and global land grabbing on reduced food security and diet quality in both adults and children in low and middle-income countries.

3. Sustainable Food Production: My long-standing research focuses on understanding the barriers for farmers to adopt more sustainable management practices to facilitate sustainable food security and improved health and environmental outcomes. This work examines farmer's adoption of climate mitigation and adaptation practices, water management practices, nutrient management, and cover crop adoption.

PEER-REVIEWED PUBLICATIONS

* Indicates an undergraduate student author

† Indicates a graduate student author

Please note: My most up to date publications can be found at: [Google Scholar Profile](#)

- 71) McCarthy, A., Belarmino, E., Bertmann, F., **Niles, M.T.** Food security impacts of the COVID-19 pandemic: Following a cohort of Vermonters during the first year. Accepted at *Nutrients*. Pre-print: <https://www.medrxiv.org/content/10.1101/2021.10.20.21265283v1>
- 70) Rodríguez-Cruz, L.A., Álvarez-Berrios, N., Niles, M.T. Social-ecological interactions in a disaster context: Puerto Rican farmer households' food security after Hurricane Maria. *Environmental Research Letters*. <https://doi.org/10.1088/1748-9326/ac6004>
- 69) Dawson, D., Morales, E., McKiernan, E.C., **Niles, M.T.**, Schimanski, L.A., Alperin, J. The role of collegiality in academic review, promotion, and tenure. *PLOS One*. Pre-print: <https://biorxiv.org/cgi/content/short/2022.01.05.475103v1>
- 68) Hebert-Dufresne, L., Waring, T.M., St-Onge, G., **Niles, M.T.**, Corlew, L.K., Dube, M.P., Miller, S.J., Gotelli, N., McGill, B.J. Source-sink cooperation dynamics constrain institutional evolution in a group-structured society. Accepted at *Proceedings of the Royal Academies B*. Preprint: <https://arxiv.org/abs/2109.08106>
- 67) **Niles, M.T.**, et al. A multi-site analysis of the prevalence of food security in the United States, before and during the COVID-19 Pandemic. *Current Developments in Nutrition*. Volume 5, Issue 12, December 2021, nzab135, <https://doi.org/10.1093/cdn/nzab135>
- 66) White, A., Faulkner, J., Conner, D., **Niles, M.T.**, Barbieri, L., Mendez, V.E., Adair, E.C., Twombly, C. 2021. Measuring the supply of ecosystem services from alternative soil & nutrient management practices: a transdisciplinary, field-scale approach. *Sustainability*. 13(18), 10303; <https://doi.org/10.3390/su131810303>
- 65) Ryschawy, J., Kelly, S., Gaudin, A., Garrett, R., **Niles, M.T.** 2021. Moving niche agroecological initiatives to the mainstream: A case-study of sheep-vineyard integration in California. *Land Use Policy*. 109:105680. <https://doi.org/10.1016/j.landusepol.2021.105680>
- 64) Nicholson, C., Emery, B.F. †, **Niles, M.T.** 2021. Global relationships between crop diversity and nutritional stability. *Nature Communications*. 12: 5310. <https://doi.org/10.1038/s41467-021-25615-2>
- 63) Bertmann, F., Rogomentich, K., Belarmino, E.H., **Niles, M.T.** 2021. The Food Bank and Food Pantries Help Food Insecure Participants Maintain Fruit and Vegetable Intake During COVID-19. *Frontiers in Nutrition* 8, 510. <https://www.frontiersin.org/article/10.3389/fnut.2021.673158>
- 62) Rodríguez-Cruz, L., Moore, M., **Niles, M.T.** 2021. Puerto Rican Farmers' Obstacles Towards Recovery and Adaptation Strategies after Hurricane Maria: A Mixed-Methods Approach to Understanding Adaptive Capacity. *Frontiers in Sustainable Food Systems*. 5:22. <https://doi.org/10.3389/fsufs.2021.662918>
- 61) Gisbert-Queral, M., Henningsen, A., **Niles, M.T.**, Kebreab, E., Tigden, A.J., Mueller, N.D. Climate impacts and adaptation in US dairy systems. *Nature Food*. 2, 894–901 (2021). <https://doi.org/10.1038/s43016-021-00372-z>
- 60) Snider, M.A.†, Ziegler, S.E., Darby, H.M., Soder, K.J., Brito, A.F., Beidler, B., Flack, S., Greenwood, S.L., **Niles, M.T.** 2021. An overview of organic, grassfed dairy farm management and factors related to higher milk production. *Renewable Agriculture and Food Systems*, 1-9. doi:10.1017/S1742170521000284
- 59) Clements, R. †, Birthisel, S.K., Daigneault, A., Gallandt, E., Johnson, D., Wentworth, T., **Niles, M.T.** (2021). Climate change in the context of whole-farming systems: opportunities for improved outreach. *Climatic Change*. 166: 40. <https://doi.org/10.1007/s10584-021-03101-4>

- 58) **Niles, M.T.**, Wirkkala Brassard, K. Belarmino, E.H., Bertmann F. (2021). Home food procurement impacts food security and diet quality during COVID-19. *BMC Public Health*. 21: 945. <https://doi.org/10.1186/s12889-021-10960-0>
- 57) Emery, B.F.†, **Niles M.T.**, Danforth, C.M., Dodds, P.S. (2021). Local information sources received the most attention from Puerto Ricans during the aftermath of Hurricane Maria. *PLOS One*. 16(6): e0251704. <https://doi.org/10.1371/journal.pone.0251704>
- 56) **Niles, M.T.**, Rudnick, J. †, Lubell, M., Cramer, L., (2021). Linking Household and Community Social Capital to Smallholder Food Security. *Frontiers in Sustainable Food Systems*. <https://doi.org/10.3389/fsufs.2021.583353>
- 55) Muller, M.F., Penny, G., **Niles, M.T.**, Ricciardi, V., Chiarelli, D.D., Davis, K.F., Dell'Angelo, J., d'Odorico, P., Rosa, L., Rulli, M.S., Mueller, N.D. (2021). Impact of transnational land acquisitions on local food security and diet diversity. *Proceedings of National Academy of Sciences*. 118: e2020535118. DOI: 10.1073/pnas.2020535118
- 54) Rodriguez-Cruz, L.A. and **Niles, M.T.** (2021). Awareness of climate change's impacts and motivation to adapt are not enough to drive action: A look at Puerto Rican farmers after Hurricane Maria. *PLOS One*. 16(1): e0244512. <https://doi.org/10.1371/journal.pone.0244512>
- 53) Roy, E., Hammond-Wagner, C., † **Niles, M.T.** (2021). Hot spots of opportunity for improved cropland nitrogen management across the United States. *Environmental Research Letters*. 16: 035004. <https://doi.org/10.1088/1748-9326/abd662>
- 52) **Niles M.T.**, Emery, B.F. †, Wiltshire, S., Fischer, B., Ricketts, T., Brown, M. (2021). Climate impacts associated with reduced diet diversity in children across nineteen countries. *Environmental Research Letters*. 16: 015010. <https://doi.org/10.1088/1748-9326/abd0ab>
- 51) Mason, R.E. †, Merrill, S.C., Gorres, J., Faulkner, J., **Niles, M.T.** (2021). Agronomic and environmental performance of dairy farms in a warmer, wetter climate. *Journal of Soil and Water Conservation*. 76: 76-88. <https://doi.org/10.2489/jswc.2021.00169>
- 50) Mason, R.E. †, **Niles, M.T.**, Merrill, S.C., Gorres, J., Faulkner, J. (2021). Using agricultural models to inform policy: Discussion points for researchers and policymakers. *Journal of Soil and Water Conservation*. 76:10A-14A. <https://doi.org/10.2489/jswc.2021.0917A>
- 49) Byerly, H. †, Kross, S., **Niles, M.T.**, Fisher, B. (2021). Behavioral science and biodiversity management in agricultural landscapes. *Environmental Monitoring and Assessment*. 193:270. <https://doi.org/10.1007/s10661-020-08815-z>
- 48) Payne, P., Kaye-Blake, W.H., Kelsey, A., Brown, M., **Niles, M.T.** (2021). Measuring rural community resilience: Case studies in New Zealand and Vermont, USA. *Ecology and Society*. 26(1):2. <https://doi.org/10.5751/ES-12026-260102>
- 47) Hammond-Wagner, C. †, Greenhalgh, S., **Niles, M.T.**, Zia, A. (2020). Evaluating water quality regulation as a driver of farmer behavior: a social-ecological systems approach. *Ecology and Society*. 25: 35. <https://doi.org/10.5751/ES-12034-250435>
- 46) Schattman, R.E., Aitken, H.M., **Niles, M.T.** (2020). Water use governance in a temperate region: Implications for agricultural climate change adaptation in the Northeastern United States. *Ambio*. <https://doi.org/10.1007/s13280-020-01417-6>
- 45) Riddle, E.†, **Niles, M.T.**, Nickerson, A. (2020). Prevalence and factors associated with food insecurity across an entire campus population. *PLOS ONE*. <https://doi.org/10.1371/journal.pone.0237637>
- 44) **Niles, M.T.**, Bertmann, F., Belarmino, E., Wentworth, T., Biehl, E., Neff, R.A. (2020). The early food insecurity impacts of COVID-19. *Nutrients*. 12(7), 2096; <https://doi.org/10.3390/nu12072096>
- 43) Poortvliet, P.M., **Niles, M.T.**, Veraart, J.A., Werners, S.E., Korporaal, F.C., Mulder, B.C. (2020). Communicating Climate Change Risk: A Content Analysis of IPCC's Summary for Policymakers. *Sustainability* 2020, 12, 4861. <https://doi.org/10.3390/su12124861>

- 42) Cooper, M. †, Brown, M.E., **Niles, M.T.**, Mahmoud, M. (2020). Text mining the food security literature reveals substantial spatial bias and thematic broadening over time. *Global Food Security*. 26, 100392. DOI: <https://doi.org/10.1016/j.gfs.2020.100392>
- 41) Millar, A., † Vatovec, C., **Niles, M.T.**, Ivahkiv, A. (2020). What's in Your Body of Water? Reducing the Psychological Distance of Pharmaceutical Pollution through Metaphoric Framing in Risk Communication. *Environmental Management*. 65 (5), 630-641. DOI: 10.1007/s00267-020-01275-8
- 40) Hammond-Wagner, C.R. † and **M.T. Niles**. (2020). What is fair in groundwater allocation? Distributive and procedural fairness perceptions of California's Sustainable Groundwater Management Act. *Journal of Society of Natural Resources*. DOI: 10.1080/08941920.2020.1752339
- 39) **Niles, M.T.**, Schimanski, L.A., McKiernan, E., Alperin, J.P. (2020). Why we publish where we do: Faculty publishing values and their relationship to review, promotion and tenure expectations. *PLOS ONE*. 15(3): e022891 <https://doi.org/10.1371/journal.pone.0228914>
- 38) **Niles, M.T.** (2020). Majority of rural residents compost food waste: Policy and waste management implications for rural regions. *Frontiers in Sustainable Food Systems*. 3:123. <https://doi.org/10.3389/fsufs.2019.00123>
- 37) Schattman, R.E., Hurley, S.E., Greenleaf, H.L. †, **Niles, M.T.**, Caswell, M. (2019). Visualizing climate change adaptation: An effective tool for agricultural outreach? *Weather, Climate, and Society*. doi: 10.1175/WCAS-D-19-0049.1
- 36) Hammond Wagner, C. †, Roy, E., **Niles, M.T.** (2019). US county-level agricultural crop production cluster classifications. *BMC Research Notes*. 12, Article number: 552. <https://doi.org/10.1186/s13104-019-4594-4>
- 35) Lubell, M.N. and **M.T. Niles**. (2019). Climate adaptation: Knowledge capacity building limits. *Nature Climate Change*. 9: 578-579. <https://doi.org/10.1038/s41558-019-0541-6>
- 34) McKiernan, E.C., Schimanski, L.A., Muñoz Nieves, C., Matthias, L., **Niles, M.T.**, and Alperin, J.P. (2019). The use of Journal Impact Factor in academic review, promotion, and tenure evaluations. *ELife*. 8: e47338. doi: 10.7554/eLife.47338
- 33) Carranza, M.*, and **M.T. Niles**. (2019). Smallholder farmers spend credit primarily on food: gender differences and food security implications in a changing climate. *Frontiers in Sustainable Food Systems*. 3:56. doi:10.3389/fsufs.2019.00056
- 32) **Niles, M.T.**, Wiltshire, S. †, (2019). Tradeoffs in U.S. dairy manure greenhouse gas emissions, productivity, climate, and manure management strategies. *Environmental Research Communications*. 1:7. 075003. <https://doi.org/10.1088/2515-7620/ab2dec>
- 31) Weiner, S., Roesch-McNally, G., Schattman, R.E., **Niles, M.T.** Ready, willing and able? USDA field staff as climate advisors. (2019). *Journal of Soil and Water Conservation*. 75(1):62-74. DOI: 10.2489/jswc.75.1.62
- 30) **Niles M.T.**, Hammond-Wagner, C.† The carrot or the stick? (2019). California farmer support of incentive and regulatory groundwater management policies. *Environmental Research Communications*. 1:4. 045001. <https://doi.org/10.1088/2515-7620/ab1778>
- 29) **Niles, M.T.**, Waterhouse, H.†, Kroopf, S., Parkhurst, R. McClellan, E. (2019). Policy options to streamline the carbon market potential for agricultural nitrous oxide emissions. *Climate Policy*. 19:7, 893-907 <https://www.tandfonline.com/doi/full/10.1080/14693062.2019.1599802>
- 28) **Niles, M.T.**, Horner, C., † Chintala, R., Tricarico, J. (2019). A review of determinants for dairy farmer decision making on manure management strategies in high-income countries. *Environmental Research Letters*. 14:5. <https://doi.org/10.1088/1748-9326/ab1059>
- 27) Alperin, Juan P., Schimanski, L., Muñoz Nieves, C., Fischman, Gustavo E., **Niles, M.T.**, McKiernan, E.C. (2019). Meta-Research: How significant are the public dimensions of faculty work in review, promotion and tenure documents? *eLife*. 8:e42254 <https://doi.org/10.7554/eLife.42254>

- 26) Cortner, O.†, Garrett, R.D., Valentim, J., Ferreira, J., **Niles, M.T.**, and Reis, J. (2019). Local perceptions of benefits and challenges to adopting integrated crop and livestock systems in Brazil. *Land Use Policy*. 82:841-853. <https://doi.org/10.1016/j.landusepol.2019.01.006>
- 25) **Niles, M.T.**, Emery, B.F.†, Reagan, A., Dodds, P.S., Danforth, C. (2019). Social media usage patterns during natural hazards. *PLOS ONE*. 14(2): e0210484. <https://doi.org/10.1371/journal.pone.0210484>
- 24) Shah, S.H.†, Wagner, C.H.†, Sanga, U.†, Park, H.†, de Lima Demange, L.H.M†, Gueiros, C.†, **Niles, M.T.** (2019). Can agricultural adaptation to hydro-climatic change be explained by household “capitals”? Household evidence from the Indo-Gangetic Plains. *Frontiers in Sustainable Food Systems*. 3:1. <https://doi.org/10.3389/fsufs.2019.00001>
- 23) Rudnick, J.† **Niles, M.T.**, Lubell, M.N., Cramer, L. (2019). A comparative analysis of governance and leadership in agricultural development policy networks. *World Development*. 117: 112-126. <https://doi.org/10.1016/j.worlddev.2018.12.015>
- 22) **Niles, M.T.**, Weiner, S., Schattman, R., Roesch-McNally, G., Reyes, J. (2019). Seeing isn't always believing: Crop loss and climate change perceptions among farm advisors. *Environmental Research Letters*. 14:4. <https://doi.org/10.1088/1748-9326/aafbb6>
- 21) Christ, A.†, and **M.T. Niles**. (2018). Role of community social capital for acute food security following an extreme weather event. *Rural Sociology*. 64: 80-90. <https://doi.org/10.1016/j.jrurstud.2018.09.019>
- 20) Bevet, S.†, **Niles, M.T.**, Pope, L. (2018). You can't “nudge” nuggets: An investigation of late night dining with behavioral economics interventions. *PLOS ONE*. 13 (5): e0198162 <https://doi.org/10.1371/journal.pone.0198162>
- 19) Conrad, Z., **Niles, M.T.**, Neher, D., Roy, E., Tichenor, N., Jahns, L. (2018). Relationship between food waste, diet quality, and environmental sustainability. *PLOS ONE*. 13(4): e0195405 <https://doi.org/10.1371/journal.pone.0195405>
- 18) **Niles, M.T.**, and J. Salerno. (2018). A cross country analysis of climate shocks on smallholder food insecurity. *PLOS ONE*. 13(2): e0192928. <https://doi.org/10.1371/journal.pone.0192928>
- 17) **Niles, M.T.**, Ahuja, R., Barker, T., Esquivel, J., Gutterman, S., Heller, M., Mango, N., Portner, D., Raimond, R., Tirado, C., Vermeulen, S. (2018). Climate change mitigation beyond agriculture: A review of food system opportunities and implications. *Renewable Agriculture and Food Systems*. 1-12. doi:10.1017/S1742170518000029
- 16) Schattman, R., Roesch-McNally, G., Wiener, S., **Niles, M.T.**, Hollinger, D. (2018). Farm service agency employee intentions to use weather and climate data in professional services. *Renewable Agriculture and Food Systems*, 1-10. doi:10.1017/S1742170517000783
- 15) **Niles, M.T.**, Garrett, R., Walsh, D*. (2018). Ecological and economic benefits and challenges for integrating sheep into viticulture production. *Agronomy for Sustainable Development*. 38: 1. <https://doi.org/10.1007/s13593-017-0478-y>
- 14) Kross, S., Ingram, K.†, Long, R., **Niles, M.T.** (2018). Farmer perceptions and behaviors related to wildlife and on-farm conservation actions. *Conservation Letters*. 11:e12364. doi:10.1111/conl.12364
- 13) **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
- 12) **Niles, M.T.** and C. Hammond-Wagner† (2017). Farmers seek local solutions for California water management and the Sustainable Groundwater Management Act. *California Agriculture*. 72:38-43. Special Issue, “California's Sustainable Groundwater Management Act”. <https://doi.org/10.3733/ca.2017a0040>
- 11) 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., Kebreab, 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. <https://doi.org/10.1016/j.agsy.2017.05.003>
- 10) Garrett, R., **Niles, M.T.**, Gil, J., Dy, P., Ferreira, J., Reis, J., Valentim, J. (2017). Policies for re-integrating crop and livestock systems: A comparative analysis. *Sustainability*, 9: 473. <https://doi.org/10.3390/su9030473>

- 9) **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. <https://doi.org/10.1016/j.gloenvcha.2016.05.002>
- 8) **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. <https://doi.org/10.1007/s10584-015-1558-0>
- 7) 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. <https://doi.org/10.1007/s00267-015-0504-2>
- 6) **Niles, M.T.**, Lubell, M., Brown, M. (2015). How limiting factors drive agricultural adaptation to climate change. *Agriculture, Ecosystems & Environment*, 200: 178-185. <https://doi.org/10.1016/j.agee.2014.11.010>
- 5) Lubell, M., **Niles, M.T.**, Hoffman, M. (2014). Extension 3.0: Managing agricultural knowledge systems in the network age. *Journal of Society and Natural Resources*, 27: 1089-1103 <https://doi.org/10.1080/08941920.2014.933496>
- 4) **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. <https://doi.org/10.1016/j.gloenvcha.2013.08.005>
- 3) 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) doi.org/10.1371/journal.pone.0052882 (Note: First two authors contributed equally to this manuscript)
- 2) **Niles, M.T.** and Lubell, M. Integrative frontiers in environmental policy theory and research. (2012). *Policy Studies Journal*, 40: 41-64. doi.org/10.1111/j.1541-0072.2012.00445.x
- 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

- 4) Alperin, J.P., Schimanski, L.A., La, M., **Niles, M.T.**, McKiernan, E.C. The value of data and other non-traditional scholarly outputs in academic review, promotion, and tenure. In Press at *Open Handbook of Linguistic Data Management*.
- 3) Behrens, P. and **M.T. Niles**. In Press. Climate change and food sustainability. In Behrens, P. (Ed.), *Food Sustainability*, Oxford University Press.
- 2) **Niles, M.T.** and M. Brown. In Press. 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/REVISION

- 6) Porterfield, K., Hobson, S., Neher, D., **Niles, M.T.**, Roy, E. Microplastics in composts, digestates and food wastes: A review. Submitted to *Bioresource Technology*. Preprint: <https://doi.org/10.31224/2187>
- 5) White, A., Faulkner, J.W., **Niles, M.T.**, Conner, D., Mendez, V.E. The role of farmer networks in supporting adaptive capacity: opening the door for innovation and transformation in the Northeastern US. Submitted to *Elementa*.
- 4) Geller, S., Clark, B., Pope, L., **Niles, M.T.**, Belarmino, E.H., Investigating knowledge and beliefs on calcium and preferences for dairy vs. plant-based alternatives. Submitted to *Journal of Nutrition and Education Behavior*.
- 3) Brassard Wirkkala, K., Bertmann, F., Belarmino, E.H., **Niles, M.T.** The fruits of labor: Home food procurement and mental health in the time of COVID-19. In Revision at *Journal of Hunger and Environmental Nutrition*.
- 2) Davis, K.F., Muller, M.F., Rulli, M.C., Tatlhago, M., Ali, S., Baggio, J.A., Dell'Angelo, J., Jung, S., Kehoe, L., **Niles, M.T.**, Eckert, S. Transnational agricultural land acquisitions as an emerging threat to global biodiversity. In Review at *Science Advances*.

1) **Niles, M.T.**, Wiltshire, S., Lombard, J., Branan, M., Vuolo, M., Chintala, R., Tricarico, J. Manure management strategies are interconnected with complexity across US dairy farms. In Revision at *PLOS One*.

PUBLISHED DATASETS AND SURVEYS

4) **Niles, M.T.**, Neff, R.; Biehl, E; Bertmann, F. Belarmino, E.H., Acciai, F., Ohri-Vachaspati, P. 2020. "Food Access and Security During COVID-19 Survey 2.1 <https://doi.org/10.7910/DVN/4KY9XZ>, Harvard Dataverse, V3

3) **Niles, M.T.**, Neff, R.; Biehl, E; Bertmann, F. Morgan, E.H., Wentworth, T. 2020, "Food Access and Security During Coronavirus Survey- Version 1.0", <https://doi.org/10.7910/DVN/RQ6NMG>, Harvard Dataverse, V1

2) **Niles, M.T.**, Schimanski, L.A., McKiernan, E.C.; Alperin, J.P., 2020. Data for: Why we publish where we do", <https://doi.org/10.7910/DVN/MRLHNO>, Harvard Dataverse, V1

1) Alperin, J. P., Muñoz Nieves, C., Schimanski, L., McKiernan, E. C., and **Niles, M.T.** 2018. Terms and Concepts found in Tenure and Promotion Guidelines from the US and Canada. doi:10.7910/DVN/VY4TJE, Harvard Dataverse

PUBLISHED ABSTRACTS

8) Lange, S. †, Trubek, A., Nickerson, A., **Niles, M.T.** Relationship between food agency and food insecurity in a university community. *Journal of the Academy of Nutrition and Dietetics*. 120 (9), A85.

7) **Niles, M.T.**, Ball, J. †, Nickerson, A. Shift in California farmer's perceptions of climate change following five years of drought. ASA, CSSA and SSSA International Annual Meetings.

6) **Niles, M.T.**, Horner, C. †, Chintala, R., Tricarico J. 2019. What determines how dairy farmers manage manure? ASA, CSSA and SSSA International Annual Meetings.

5) Mueller, N., Gisbert-Queral, M., Henningsen, A., **Niles, M.T.** Decreasing sensitivity of US dairy to temperature and humidity extremes. 2019. American Geophysical Union Fall Meeting Abstracts.

4) Riddle, E. †, **Niles, M.T.**, Nickerson, A. 2018. Prevalence and Factors Associated with Food Insecurity in Higher Education. *Journal of the Academy of Nutrition and Dietetics*. 118 (9), A78.

3) Bevet, S. †, **Niles, M.T.**, Pope, L. 2018. Behavioral Economics in College Late Night Dining. *Journal of the Academy of Nutrition and Dietetics*. 118 (9), A83.

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

6) **Niles, M.T.**, Bertmann, F., Belarmino, E.H., Cannella, M., Conner, D. 2021. COVID-19 impacts on Vermont farms and food businesses: Pivots, needs and opportunities for the future. <https://scholarworks.uvm.edu/calsfac/98>

5) **Niles, M.T.**, Ferdinand, T., Choularton, R., Carter, R. 2021. Opportunities for crop research, development and adoption to drive transformative adaptation in agriculture. Working Paper- World Resources Institute. Available online at <https://www.wri.org/publication/opportunities-crop-research-development-adoption-to-drive-transformative-adaptation-in-agriculture>

4) Clay, L., Biehl, E., Colon-Ramos, U., Dunn, C., Hossan, A., Josephson, A., Marks, A.B., Morgan, E.H.B., Neff, R., **Niles, M.T.**, Slotter, R. 2020. COVID-19 and Food Insecurity- CONVERGE COVID-19 Working Group for Public Health and Social Sciences Research Agenda Setting Paper. https://converge.colorado.edu/v1/uploads/images/covid_19_food_insecurity-1595251841996.pdf

- 3) **Niles, M.T.** 2018. Household Food Waste Perceptions and Behaviors: A Vermont Case Study. University of Vermont.
https://www.uvm.edu/crs/reports/2018/2018_VT_Poll_Results_Vermont_Household_Food_Waste_Behaviors_Report.pdf
- 2) **Niles, M.T.**, Ahuja, R., Esquivel, J., Mango, N., Duncan, M., Heller, M., Tirado, C. 2017. Climate change & food systems: assessing impacts and opportunities. Meridian Institute. Available at <http://bit.ly/2oFuqpe>.
- 1) 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.

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 AND RESEARCH BRIEFS

- 24) **Niles, M.T.**, Alpaugh, M., Bertmann, F., Belarmino, E.H., Bliss, S., Laurent, J., Malacarne, J., McCarthy, A., Merrill, S., Schattman, R.E., and Yerxa, K. Home Food Production and Food Security Since the COVID-19 Pandemic (2021). College of Agriculture and Life Sciences Faculty Publications. 189.
<https://scholarworks.uvm.edu/calsfac/189>
- 23) McCarthy, A., Bertmann, F., Belarmino, E.H., **Niles, M.T.** Food Security Impacts of the COVID-19 Pandemic: Following a Group of Vermonters During the First Year. College of Agriculture and Life Sciences Faculty Publications. 186. <https://scholarworks.uvm.edu/calsfac/186>
- 22) **Niles, M.T.**, et al. 2021. Food Insecurity Prevalence Across Diverse Sites During COVID-19: A Year of Comprehensive Data. College of Agriculture and Life Sciences Faculty Publications. 178.
<https://scholarworks.uvm.edu/calsfac/178>
- 21) Ohri-Vachaspati, P., Acciai, F., Martinelli, S., Harper, K., Bertmann, F., Belarmino, E.H., Neff, R., **Niles, M.T.** 2020. Food Assistance Program Participation among US Household during COVID-19 Pandemic. Arizona State University. <https://keep.lib.asu.edu/items/244>
- 20) Acciai, F., Belarmino, E.H., Josephson, A., **Niles, M.T.** 2020. Changes in Employment Status and Food Security During the COVID-19 Pandemic. Arizona State University. <https://keep.lib.asu.edu/items/245>
- 19) Harper, K., Acciai, F., Josephson, A., Ohri-Vachaspati, P., Belarmino, E.H., **Niles, M.T.** Robinson, J., Neff, R., Bertmann, F. 2020. Experiences of Households with New and Persistent Food Insecurity during the First Four Months of the COVID-19 pandemic. JHU COVID-19 Publications.
<http://jhir.library.jhu.edu/handle/1774.2/63252>
- 18) **Niles, M.T.**, Belarmino, E.H., Bertmann, F. 2020. COVID-19 Impacts on Food Security and Systems: A Third Survey of Vermonters. College of Agriculture and Life Sciences Faculty Publications. 27.
<https://scholarworks.uvm.edu/calsfac/27>
- 17) **Niles, M.T.**, Josephson, A.L., Bertmann, F., Belarmino, E.H., Neff, R. 2020. COVID-19 and Food Insecurity Impacts: A follow up Vermont study. College of Agriculture and Life Sciences Faculty Publications. 26.
<https://scholarworks.uvm.edu/calsfac/26>
- 16) **Niles, M.T.**, Bertmann, F., Morgan, E.H., Wentworth, T., Biehl, E., Neff, R. 2020. A General Overview of Coronavirus and Food Access and Security in Vermont. College of Agriculture and Life Sciences Faculty Publications. 21. <https://scholarworks.uvm.edu/calsfac/21>

- 15) **Niles, M.T.**, Bertmann, F., Morgan, E.H., Wentworth, T., Biehl, E., Neff, R. 2020. The Impact of Coronavirus on Vermonters Experiencing Food Insecurity. College of Agriculture and Life Sciences Faculty Publications. 19. <https://scholarworks.uvm.edu/calsfac/19>
- 14) **Niles, M.T.**, Bertmann, F., Morgan, E.H., Wentworth, T., Biehl, E., Neff, R. 2020. Job Disruption and Loss and Food Access During Coronavirus. College of Agriculture and Life Sciences Faculty Publications. 20. <https://scholarworks.uvm.edu/calsfac/20>
- 13) Bertmann, F., Belarmino, E.H., Wentworth, T., Biehl, E., Neff, R., **Niles, M.T.** 2020. Food Access Through School Meals and Food Pantries During COVID-19: Early Findings from Vermont. College of Agriculture and Life Sciences Faculty Publications. 22. <https://scholarworks.uvm.edu/calsfac/22>
- 12) Belarmino, E.H., Bertmann, F., Wentworth, T., Biehl, E., Neff, R., **Niles, M.T.** 2020. The Impact of COVID-19 on the Local Food System: Early findings from Vermont. College of Agriculture and Life Sciences Faculty Publications. 23. <https://scholarworks.uvm.edu/calsfac/23>
- 11) Belarmino, E.H., Bertmann, F., Wentworth, T., Biehl, E., Neff, R., **Niles, M.T.** 2020. Early COVID-19 Impacts on Food Retail and Restaurants: Consumer Perspectives from Vermont. College of Agriculture and Life Sciences Faculty Publications. 24. <https://scholarworks.uvm.edu/calsfac/24>
- 10) **Niles, M.T.**, Darby, H., Flack, S., Ziegler, S., Brito, A., Snider, M†. 2019. Grass-fed Dairy Farm Production Practices and Demographics in the US.
- 9) **Niles, M.T.**, and Hammond-Wagner, C. † 2019. Fresno County Farmer Groundwater Survey Results
- 8) **Niles, M.T.**, and Hammond-Wagner, C. † 2019. Madera County Farmer Groundwater Survey Results
- 7) **Niles, M.T.**, and Hammond-Wagner, C. † 2019. San Luis Obispo County Farmer Groundwater Survey Results
- 6) **Niles, M.T.**, Hammond-Wagner, C. †, Mehta, V.K., Sicke, K. 2019. Yolo County Farmer Concerns and Perceptions of Groundwater Conditions
- 5) **Niles, M.T.**, Hammond-Wagner, C. †, Mehta, V.K., Sicke, K. 2019. Yolo County Farmer Participation and Policy Preferences for SGMA
- 4) **Niles, M.T.**, Hammond-Wagner, C. †, Mehta, V.K., Sicke, K. 2019. Yolo County Farmer Current and Future Groundwater Management Practices
- 3) Johnson, D. †, **Niles, M.T.**, Wentworth, T., Faulkner, J., Birthisel, S., Clements, R. † 2019. What do Northern New England Farmers Need to Adapt to Climate Change?
- 2) Rodriguez-Cruz, L.A. and Niles, M.T. 2018. Puerto Rican Farmer Perceptions of Climate Change and Hurricane Maria
- 1) **Niles, M.T.** 2018. Vermont Household Food Waste Behaviors and Policy Perceptions.

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

Career total received in direct support: \$5,116,000

- 2022 **Niles, M.T.**, Schattman, R., Belarmino, E., Laurent, J., Malacarne, J. Merrill, S., Bertmann, F., Yerxa, K. “Rural experiences with food insecurity and health during COVID-19 and strategies for future resilience.” USDA NIFA Foundational program. Total award: \$645,000 (PI)
- 2021 Danforth, C.M., Garavan, H., Li, J., **Niles, M.T.**, O’Neil-Dunne, J.P. “MRI: Acquisition of a Massive Database to Accelerate Data Science Discovery”. National Science Foundation Major Research Instrumentation Program. Total award: \$725,016 (Co-PI)
- 2021 Belarmino, E., Wang, Q., **Niles, M.T.** “Vermont’s legislative intervention on food waste disposal and single-use plastic bags: Implementation, effectiveness, and policy implications.” Jeffords Policy Institute, UVM. Total award: \$10,000 (Co-PI)
- 2021 Tobin, D., Belarmino, E., **Niles, M.T.**, Reynolds, T. “Crop diversity and food and nutrition security outcomes across spatial scales in Sub-Saharan Africa”. UVM Gund Institute for Environment. Total award: \$50,000 (Partner).
- 2021 Mueller, N., Dillon, J., Kebreab, E., **Niles, M.T.** “Productivity, animal welfare, and environmental implications of weather variability for US dairy systems.” USDA Inter-Disciplinary Engagement in Animal Systems Program. Total award: \$994,300 (UVM: \$350,580) (Co-PI).
- 2020 **Niles, M.T.**, Laurent, J., Belarmino, E., Bertmann, F., Merrill, S., Schattman, R., Yerxa, K. “Protective effects and risk factors for food security and health outcomes through natural resource reliance before and since COVID-19 in rural New England.” Northeast Translational Research Center/Gund Institute for Environment. Total award: \$100,000 (PI).
- 2020 McGill, B., Dube, M., Gotelli, N., **Niles, M.T.**, Waring, T. “Harnessing spatiotemporal data science to predict responses of biodiversity and rural communities under climate change.” National Science Foundation. Total award: \$3,995,996 (UVM: \$1,675,678) (Co-PI)
- 2020 **Niles, M.T.** and Nicholson, C. “Linking crop and diet diversity with nutritional outcomes over time and scales.” USDA HATCH Agricultural Experiment Station. Total award: \$45,000 (PI)
- 2020 Bose, P., Green, A., Bertmann, F., Belarmino, E., **Niles, M.T.**, Solazzo, A., Laramée, A. “Refugee communities and food security in response to COVID-19.” ARS Center for Food Systems Research. Total award: \$20,000 (PI)
- 2020 Conner, D., **Niles, M.T.**, Desrochers, R., Callahan, C., Darby, C., Chase, L., Bauerly, B. “Agility in the face of disruption: Food businesses’ rapid response to COVID-19.” ARS Center for Food Systems Research. Total award: \$20,000 (Co-PI)
- 2020 **Niles, M.T.**, Belarmino, E., Bertmann, F., Clark, E., Merrill, S. “Understanding Food Access Impacts from COVID-19 in Vermont and Beyond.” ARS Center for Food Systems Research. Total award: \$20,000 (PI)
- 2020 **Niles, M.T.**, Belarmino, E., Bertmann, F., Cannella, M., Conner, D. “Assessing Vermont Farm and Food Producers’ COVID Impacts, Pivots, and Future Needs.” ARS Center for Food Systems Research. Total award: \$20,000 (PI)
- 2020 **Niles, M.T.** “A Resilience Indicators Approach to Ensuring Equitable, Objective, and Continued Investment in Northern Border Communities.” USDA/Forest Service. Total award: \$48,000. (PI)

- 2020 **Niles, M.T.** Belarmino, E. Bertmann, F. “Food systems and security during COVID-19”. Johns Hopkins University Center for a Livable Future. Total Award: \$16,161. (PI)
- 2020 **Niles, M.T.**, Belarmino, E., Bertmann, F. “The food system and public health implications of coronavirus: Immediate impacts and long-term opportunities for resilience”. Gund Institute for Environment. Total Award: \$10,000. (PI)
- 2020 **Niles, M.T.**, Belarmino, E., Bertmann, F. “COVID-19 and food security in Vermont”. UVM College of Agriculture and Life Sciences and Office of the Vice President of Research. Total Award: \$8,000. (PI)
- 2020 Bomblies, A. and **Niles, M.T.** “Harnessing and augmenting the capacity of forests to combat malaria and promote human wellbeing in Madagascar”. Gund Institute for Environment Catalyst Award. Total Award: \$50,000. (Co-PI).
- 2020 Bomblies, A. et al. “The Tropical Agroecology Toolkit: Four modest but scalable strategies that harness nature to resolve food and health challenges in tropical low- and middle-income nations”. The Nature Conservancy Bridge Spark Award. Total Award: \$150,000 (UVM total: \$79,000). (Co-PI)
- 2019 Reberg-Horton, C., Mirsky, S., Robertson, A., Gaskin, J., Ryan, M., **Niles, M.T.**, Tilmon, K. “A Cover Crop Network For Enhancing The Sustainability Of US Cropping Systems.” USDA Sustainable Agricultural Systems Program. Total Award: \$10,000,000 (UVM total: \$555,000). (Co-PI)
- 2019 Novak, D., Sullivan, J., **Niles, M.T.** “Targeted investment for critical food access in rural New England”. Proposal submitted May 2018 to National Center for Sustainable Transportation. Total Award: \$49,000 (Co-PI)
- 2019 Joseph, E., **Niles, M.T.**, Alvez, J., Kirk, M. “Feasibility of Integrating Sheep into Vermont Vineyards: An Initial Look at Ecologic and Economic Benefits”. Northeast SARE Farmer Grant. Total Award: \$9,500 (Technical Advisor)
- 2018 **Niles, M.T.** “California Farmer's Water Management Practice Adoption and Policy Preferences for Sustainable Groundwater Management”. Water Foundation. Total Award: \$75,000 (PI)
- 2018 **Niles, M.T.** “Rural futures in New Zealand and Vermont: Community perceptions of resilience”. AgResearch New Zealand. Total Award: NZD \$55,000 (USD \$36,500) (PI)
- 2018 Hodgson, S., **Niles, M.T.**, Faulkner, J. CALS/Extension Seed Grant. Total Award: \$5,000 (Co-PI)
- 2018 **Niles, M.T.** “Vermont household perceptions of food waste and policies”. Casella Waste Management Systems.” Total Award: \$14,000 (PI)
- 2018 **Niles, M.T.**, et al. “Assessing climate perceptions and developing adaptation resources for small, medium and beginning farms” USDA Small and Medium Farms Program. Total Award: \$500,000 (PI)
- 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: \$36,000 (PI)
- 2017 Schattman, R., and **Niles, M.T.** CALS/Extension Seed Grant. Total Award: \$5,000 (Co-PI)
- 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 \$58,500 (Co-PI)
- 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: \$10,500 (PI)
- 2017 **Niles, M.T.** “Assessing dairy farmer decisions and barriers for adopting sustainable manure management systems” U.S. Center for Dairy Innovation. Total Award: \$50,000 (PI)
- 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. (Co-PI)

- 2016 **Niles, M.T.** “Assessing the effect of climate change and shocks on food security at varying scales” USDA HATCH Experiment Station. *Total Award: \$60,000.* (PI)
- 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: \$485,000. (UVM total: \$165,927)* (Co-PI)
- 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.* (PI)
- 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* (Co-PI)
- 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, *\$131,000*
- 2010-2013 National Science Foundation Interdisciplinary Graduate Education and Research Traineeship Funding for New Zealand research, *\$16,000*
- 2009 Ernest E. Hill Climate Change Fellowship, *\$2,500*
- 2009-2010 National Science Foundation Interdisciplinary Graduate Education and Research Traineeship, *\$115,000*

CORPORATE PHILANTHROPIC AWARDS

- 2019 Neher, D., **Niles, M.T.**, Roy, E (equal partners). Casella Sustainable Materials Management Research Fund. Given to the Recycling Organics and Resources (ROAR) group (co-founder). \$70,000 over three years.

HONORS AND AWARDS

- 2020 Nominee, 2021 Andrew Carnegie Fellows Program, Carnegie Corporation of New York
- 2018 Nominee, Kroepsch-Maurice Teaching Award, University of Vermont
- 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*

WORKING GROUPS

- 2020- Lead and Founder, National Food Access and COVID research Team (NFACT) (www.nfactresearch.org) – a collaboration of 18 study sites using common instruments across the US to assess the impact of COVID-19 on food access, security and systems
- 2020 - Member, COVID-19 and Food Working Group. National Science Foundation CONVERGE- Public Health and Social Science
- 2019 - Member, Large-scale land acquisitions and social-environmental impacts. Socio-environmental Synthesis Center (SESYNC Working Group)

TEACHING EXPERIENCE

- 2018, 2020 “*Professional Development*”, Graduate Food Systems Program, University of Vermont
- 2016- 2021 “*Food Systems Science and Policy*”, Graduate Food Systems Core Course, University of Vermont

- “*U.S. 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 Education Staff, Appalachian Mountain Club, *Pinkham Notch*, NH

ADVISING EXPERIENCE

2015- University of Vermont:

Current PhD Advising:

- PhD Advisor to Elizabeth Espinosa, Data Science and Complex Systems (2021 Cohort)
- PhD Advisor to Zack Goldstein, Food Systems (2021 Cohort)
- PhD Advisor to Carolyn Hricko, Food Systems and Gund Fellow
- PhD Advisor to Maya Moore, Food Systems and L4E Gund Fellow
- PhD Committee member to Natalia Aristizabal, PhD Natural Resources and Gund Fellow
- PhD Committee chair, Merelise Ametti, PhD Psychology
- Master’s advisor, Chris Brittain, Food Systems
- Master’s committee chair, Tessa McGann, Natural Resources

Current Undergraduate Advising:

- 25 advisees in Nutrition and Food Sciences/Food Systems
- Sarah Geller, Distinguished Undergraduate Research Committee Member, Nutrition and Food Sciences

Completed Advising (Undergraduates and All Graduates):

Undergraduate:

- 20- 25 Nutrition and Food Sciences, Dietetics, and Food Systems students annually
- 2021- Summer Undergraduate Research Fellowship Advisor, Maddie Burke
- 2020- Distinguished Undergraduate Research Committee Member, Nutrition & Food Sciences
- 2018- Distinguished Undergraduate Research Thesis Advisor, Marissa Carranza, Nutrition & Food Sciences
- 2017- Undergraduate Honors Thesis Advisor, Gina Cassara, Environmental Studies
- 2016- Summer Undergraduate Research Fellowship Advisor, Drew Walsh

Graduate:

- PhD Advisor to Luis Rodriguez Cruz, PhD, Food Systems and Gund Fellow (completed January 2022)
- Master’s advisor, Kristen Wrikkala, Food Systems (completed May 2021)
- Committee Chair, Alissa White, PhD Plant and Soil Sciences and Gund Fellow (completed December 2020)
- Master’s Advisor to Devon Johnson, MS, Food Systems (completed December 2019)
- PhD Advisor to Serge Wiltshire, PhD, Food Systems (completed May 2019)
- Committee Chair, Courtney Hammond-Wagner, PhD, Natural Resources (completed May 2019)
- Committee Chair, Hilary Byerly, PhD Natural Resources (completed May 2019)
- Committee Chair, Rachel Mason, MS, Plant and Soil Sciences (completed May 2019)
- Committee Chair, Ben Emery, MS, Complex Systems and Data Science (completed May 2019)
- Advisor, “Agrarian adaptation in Northern India”. Socio-environmental synthesis center (SESYNC) graduate student pursuits working group. (completed January 2019)
- Committee Chair, Jini Kades, MS Community Development & Applied Economics (completed Dec. 2018)
- Project Advisor, Olivia Pena, MS, Food Systems (completed August 2018)
- Research Advisor, Emilie Riddle, MS, Dietetics (completed May 2018)
- Committee Chair, Samantha Lewandowski, MS, Community Development and Applied Economics (completed December 2017)
- Committee Member, Sam Bevet, MS, Food Systems (completed December 2017)
- Master’s Thesis Advisor to Alana Chriest, MS, Food Systems (completed September 2017)
- Committee Chair, Alexandra Millar, MS, Environmental Studies (completed July 2017)

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) Acciai, F., Ohri-Vachaspati, P., Yellowhorse, A., Josephson, A., **Niles, M.T.** “The Differential Impacts of the COVID-19 Pandemic on Food Security, Job Disruptions, and Food Assistance Program Participation in Arizona.” Moderator. *American Public Health Association Annual Meeting. Denver, CO.* October 2021.
- 2) **Niles, M.T.** and H. McKhann. “Food Policy for Food Security and Agricultural Mitigation”. Co-Chair, Break-out Session. *International Conference on Agricultural GHG Emissions and Food Security. Berlin, Germany.* September 2018.
- 3) 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.
- 4) 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.
- 5) **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.
- 6) 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.
- 7) 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 Panelist. March 2022. AI Driven Innovations in Agriculture. **Auburn University and USDA National Institute of Food and Agriculture.** “Driver of farmer innovations and data privacy preferences.”
- 2) Invited Panelist. March 2022. Tufts Research and Data Symposium for Food and Nutrition. **Tufts University.** “Nutrition responses during the COVID-19 pandemic.”
- 3) Invited Presenter. February 2022. USDA Nutrition Roundtable Summit: Vermont. Opening Remarks and Setting the Stage. Held with the **Vermont Agency of Agriculture, Food and Markets.**
- 4) Invited Panelist. April 2021. 2020 National Academy of Medicine Emerging Leaders Forum. **National Academies of Science, Engineering, and Medicine.** *Washington DC.* “Food systems and food security in a changing climate” as part of the panel The Evolution of the Research Enterprise in Response to Climate Change.
- 5) Invited Speaker and Panelist. March 2021. **Lewis and Clark Law School Food for Thought Symposium.** “Farmers and Climate Change: Changing practices and new approaches”.
- 6) Invited Speaker. January 2021. **NOPREN** State of the Science Monthly Webinar. “Food insecurity and food access during COVID-19 at the national and state levels: Implications for policymaking”.
- 7) Invited Panelist. November 2020. **American Association for the Advancement of Sciences (AAAS)** Charles Valentine Riley Memorial Lecture. Invited panelist following the lecture from 2020 awardee Dr. Evan DeLucia.
- 8) Invited Speaker. October 2020. **UC Davis Climate Adaptation Research Center.** Adaptation and Mitigation Synergies in Agriculture.
- 9) Invited Webinar. June 2020. Hunger and Environmental Nutrition (HEN) Webinar for the **Academy of Nutrition and Dietetics.** “Food access and security during coronavirus: A Vermont Study”.
- 10) Invited Panelist. December 2019. Meeting of Experts on Emerging Issues in Climate Change and Human Health. **National Academies of Sciences, Medicine and Engineering.** *Washington DC.* “Food Security and Climate Change” as part of the panel on Food and Water in a Changing Climate.
- 11) Invited Speaker. December 2019. **Northeast Specialty Crop Water Symposium.** “Environmental and Regulatory Concerns Related to Water Use in the Northeast.” *Burlington VT.*
- 12) Invited Panelist. September 2019. Open Science Symposium- **National Academies of Science, Engineering, and Medicine.** *Washington D.C.*

- 13) Invited Speaker. March 2019. **Vermont Academy of Nutrition and Dietetics Conference**. Burlington, VT. “Nutrition in the Farm Bill: Recent Updates and Future Directions”.
- 14) Invited Lecture- Food Policy. November 2018. **Columbia University**. *New York, New York*. “The Farm Bill- Our Biggest Food Policy”.
- 15) Invited Speaker. November 2018. Food and Nutrition Board- **National Academies of Science, Engineering, and Medicine**. *Washington D.C.* “Environmental Warming and its Implications for Food Policy.”
- 16) Invited Speaker- Climate Change Policy Network. June 2018. **CIRAD (French Institute for Agricultural Development Research)**. *Montpellier, France*. “Opportunities for Climate Change Adaptation Policies Across Scales”
- 17) Invited Lecture- Executive Education Program. Earth Institute Center for Environmental Sustainability. May 2018. **Columbia University**. *New York, New York*. “Climate Change, Food Sustainability, and Food Security”
- 18) Invited Speaker. Gund Tea. Gund Institute for Environment. March 2018. **University of Vermont**. *Burlington, VT*. “The Farmer Cost of Regulation: Farmer Perspectives of Regulatory Compliance During Environmental Change”
- 19) Invited Seminar Speaker. James Marvin Memorial Seminar Series. Plant Biology Department. February 2018. **University of Vermont**. *Burlington, VT*. “Smallholder farmer food security in a changing climate”
- 20) Invited Presentation. Sustainable Groundwater Management Summit: Research and Practice. February 2018. **University of California, Davis**. *Davis, CA*. “Implementing California’s Sustainable Groundwater Management Act: Farmer Perceptions and the Balance of Groundwater and Economic Sustainability”
- 21) Invited Seminar Speaker. Environmental Science, Policy and Management Department. February 2018. **University of California, Berkeley**. *Berkeley, CA*. “Farmer perceptions and preferences for achieving groundwater sustainability in California”
- 22) Invited Seminar Speaker. Biology and Ecology Seminar. October 2017. **Susquehanna University**. *Selinsgrove, PA*. “Food Systems and Food Security in a Warming Climate”.
- 23) Invited Seminar Speaker. Seminar on Climate Change. May 2017. **College of the Atlantic**. *Bar Harbor, ME*. “Food Security and Climate Change”.
- 24) Invited Plenary Speaker. May 2017. **Global Alliance for the Future of Food**. *Chantilly, France*. “Climate Change and Food Systems: Impacts and Opportunities”.
- 25) 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”.
- 26) 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”
- 27) 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*.
- 28) Invited Moderator. May 2016. Sustainability Science Symposium. **Harvard University**. *Cambridge, MA*.
- 29) Invited Speaker. May 2016. Scholarly Communication Lab, University Library. **Dartmouth College**. *Hanover, NH*. “Using Open as an Asset: Opportunities to Broaden Your Impact”.
- 30) Invited Keynote Speaker. April 2016. **Iowa State University Annual Faculty Senate Conference**, *Ames, Iowa*. “Building a Career on Open Access”.
- 31) 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?”
- 32) Invited Workshop Speaker. December 2015. **Price Waterhouse Coopers**. “Environmental Constraints on New Zealand Agriculture.” Resource Economics Workshop Series. Wellington, New Zealand.
- 33) 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.
- 34) 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.”
- 35) Invited Seminar Speaker. October 2015. **Mitchell Center for Sustainable Solutions, University of Maine**, *Orono, Maine*. “Climate Change and Agriculture: Views from the Farm.”

- 36) Invited Keynote Speaker. September 2015. **Conservation Coaches Network (The Nature Conservancy and World Wildlife Fund collaboration)**. *Barcelona, Spain*, “Unlocking Behavior Change in Conservation”
- 37) Selected Short Course Participant. **National Center for Socio-Ecological Synthesis (SESYNC)**. *Annapolis, MD*. July 2015. “Teaching Socio-Environmental Systems”.
- 38) Invited Speaker. April 2015. **Gund Institute of Ecological Economics, University of Vermont**, *Burlington, Vermont*, “The Psychological Distance of Climate Change.”
- 39) 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.”
- 40) Invited Webinar. March 2015. **Switzer Foundation**. “Open Access Research: Opportunities to Broaden your Impact.”
- 41) Invited Speaker. November 2014. Open Ambassadors Conference, **Max Planck Institute**, *Munich, Germany*, “Talking open access with your colleagues and advisors.”
- 42) Invited Panelist. 2014. OpenCon Open Access to Research Conference, **American University School of Law**, *Washington, D.C.*, “Successful student initiatives for open access.”
- 43) 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.”
- 44) Invited Moderator. 2014. **The World Bank**, *Washington D.C.* “Generation Open”, Kickoff event for International Open Access Week.
- 45) Selected Participant. 2014-2015. **Harvard University, Kennedy School of Government**, *Cambridge, MA*. “From Harvard Square to the Oval Office”, Political Campaign Training Program for Women.
- 46) Invited Workshop Presenter. 2013. Berlin 11 Open Access Student Satellite Conference, **Max Planck Institute**, *Berlin, Germany*, “Institution and national open access advocacy workshop.”
- 47) Invited Speaker. 2013. **Right to Research Coalition General Assembly**, *Budapest, Hungary*, “National advocacy strategies for open access policies.”
- 48) Invited Speaker. 2013. **Marlborough Research Centre**, *Marlborough, New Zealand*, “Understanding Marlborough wine grape grower perspectives and responses to a changing climate and policies.”
- 49) 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.”
- 50) 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?”
- 51) Invited Lecturer. 2011. Biology Department, **Centre College**, *Danville, Kentucky*, “Environmental justice”, “Global commerce”, “Environmental Economics” (focus on food and agricultural systems, food justice issues)
- 52) Invited Lecturer. 2010. “Conservation management”, **UC Davis**, *Davis, CA*, “Using social network analysis for effective conservation management.”
- 53) Invited Seminar Speaker. 2010. Biology Department, **Susquehanna University**, *Selinsgrove, PA*, “The ecology of meat: Why solutions aren’t as simple as you think.”
- 54) Invited Lecturer. 2010. “Introduction to ecology”, **Susquehanna University**, *Selinsgrove, PA*, “Governing the commons: Environmental laws with a focus on climate change.”
- 55) Invited Lecturer. 2009. “Environmental engineering”, **The Catholic University of America**, *Washington D.C.*, “Water resources and the need of agriculture and food systems
- 56) 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) **Niles, M.T.** and G. Han. Farmer perceptions and willingness to participate in carbon markets. Tri Societies Annual Meeting. Oral Presentation. November 2021.
- 2) **Belarmino, E.M.**, Niles, M.T., Neff, R. Food related pro-environmental behaviors during the COVID-19 pandemic. American Public Health Association Annual Meeting. Oral Presentation. Denver, CO. October 2021.

- 3) **Niles, M.T.**, Wirkkala, K., Belarmino, E.H., Bertmann, F. Home food procurement during COVID-19: Impact on food security, diet and mental health outcomes. American Public Health Association Annual Meeting. Poster Presentation. Denver, CO, October 2021.
- 4) Thompson, J., Darby, H., Davis, B., Poffenbarger, H., Myers, R., **Niles, M.T.**, Raturi, A., Reberg-Horton, C., Robertson, A., Ryan, M., Thapa, R., Mirsky, S. Visualizing a highly-coordinated, transdisciplinary team for precision sustainable agriculture. International Transdisciplinarity Conference. Poster Presentation. September 2021.
- 5) **Niles, M.T.**, and Hammond-Wagner, C. Safeguarding Water in the West: California Farmer Perceptions and Water Management Behaviors Under the Sustainable Groundwater Management Act. *ASA, CSSA and SSSA International Annual Meetings*. Oral Presentation. Virtual Conference November 2020.
- 6) **Niles, M.T.** Opportunities to Mitigate Climate Change Across the Food System. *ASA, CSSA and SSSA International Annual Meetings*. Oral Presentation. Virtual Conference November 2020.
- 7) Rodriguez-Cruz, L.*, and **Niles, M.T.** Intended and Actual Adoption of Climate Adaptation Practices after Hurricane Maria.” *American Association for the Advancement of Sciences (AAAS)*. Poster Presentation (given by L. Rodriguez Cruz). Seattle, WA. February 2020. (Awarded Best Poster- Social Sciences)
- 8) Guber, D., Wentworth, T., **Niles, M.T.** “Up and Down with Climate: Extreme Weather Events and the Issue-Attention Cycle”. *Northeast Political Science Association*. Panel Presentation (given by D. Guber). Philadelphia, PA. November 2019.
- 9) **Niles, M.T.**, Ball, J., Nickerson, A. Shift in California farmer’s perceptions of climate change following five years of drought. *ASA, CSSA and SSSA International Annual Meetings*. Oral Presentation. San Antonio, TX. November 2019.
- 10) **Niles, M.T.**, Horner, C., Chintala, R., Tricarico J. What determines how dairy farmers manage manure? *ASA, CSSA and SSSA International Annual Meetings*. Oral Presentation. San Antonio, TX. November 2019.
- 11) Mueller, N., Gisbert-Queral, M., Henningsen, A., **Niles, M.T.** Decreasing sensitivity of US dairy to temperature and humidity extremes. *American Geophysical Union*. Presentation (given by N. Mueller). San Francisco, CA. December 2019.
- 12) Rodriguez-Cruz, L.*, and **Niles, M.T.** Puerto Rican farmers’ psychological distance of climate change adaptation.” *American Association for the Advancement of Sciences*. Poster Presentation (given by L. Rodriguez Cruz). Washington, D.C. February 2019.
- 13) Schattman, R.E., Roesch-McNally, R., Wiener, S., **Niles, M.T.**, Parmentier, B., Cobb, J., Champion, S. “Socio-environmental synthesis: Exploring the relationship between drought and the risk perceptions of USDA employees.” *American Geophysical Union Conference*. Poster Presentation (given by R. Schattman.) Washington, D.C. December 2018.
- 14) Hammond Wagner, C.*, Shah, S. H.*, Sanga, U.*, Park, H.*, Demange, L.H.M.L.*, Gueros, C*, **Niles, M.T.** “Do household capitals mediate agricultural adaptation to hydro-climatic change? A SESYNC graduate pursuit study with evidence form the Indo-Gangetic Plains (India).” *Boundary Spanning: Advances in Socio-Environmental Systems Research Symposium*. Paper Presentation (given by C. Hammond-Wagner). National Socio-Environmental Synthesis Center, Annapolis, MD. June 2018.
- 15) Conrad, Z., **M.T. Niles**, D. Neher, E. Roy, N. Tichenor, L. Jahns. “Relationship between food waste, diet quality, and environmental sustainability.” *Nutrition 2018* (Given by Z. Conrad). *Boston, MA*. June 2018.
- 16) Riddle, E.S.*, **Niles, M.T.**, Nickerson A. “Hunger on campus: prevalence and factors associated with food insecurity in higher education”. *Food and Nutrition Conference and Expo*. Poster Presentation (given by E. Riddle). *Burlington, VT* April 2018.
- 17) Pope, L., Bevet, S., **Niles, M.T.** “Behavioral economics in college late night dining”. *Food and Nutrition Conference and Expo*. Poster Presentation (given by L. Pope). Washington, DC. April 2018.
- 18) Riddle, E.S.*, **Niles, M.T.**, Nickerson A. “Hunger on campus: prevalence and factors associated with food insecurity in higher education”. *Vermont Academy of Nutrition and Dietetics Annual Meeting*. Poster Presentation (given by E. Riddle). *Burlington, VT* April 2018.
- 19) Riddle, E.S.*, **Niles, M.T.**, Nickerson A. “Hunger on campus: prevalence and factors associated with food insecurity in higher education”. *University of Vermont Student Research Conference*. Poster Presentation (given by E. Riddle). *Burlington, VT* April 2018.
- 20) Schattman, R., Weiner, S., Roesche 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.

- 21) 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.
- 22) **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.
- 23) 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.
- 24) Christ, 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.
- 25) 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.
- 26) **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.
- 27) **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.
- 28) 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.
- 29) 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.
- 30) **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.
- 31) 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.
- 32) **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.
- 33) **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.
- 34) 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
- 35) **M.T. Niles**. “Achieving climate cooperation among farmers”. Oral Presentation. *International Society for the Study of the Commons Conference. Alberta, CN*. May 2015.
- 36) **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.
- 37) **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.
- 38) **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.
- 39) **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.
- 40) **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.
- 41) **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.

- 42) **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.
- 43) **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.
- 44) **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.
- 45) **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.
- 46) **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.
- 47) **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.
- 48) 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.
- 49) **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.
- 50) **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.
- 51) **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.
- 52) **Niles, M.T.** “Social network analysis for monitoring and evaluation in natural resource management.” Oral Presentation. *UC Davis Ecology Symposium. Davis, CA,* February 2011.
- 53) **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.
- 54) 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.

INVITED OUTREACH PRESENTATIONS

- 1) **Niles, M.T.** “California farmer perspectives of the Sustainable Groundwater Management Act”. Invited Speaker. *California Groundwater Leadership Forum.* September 2020.
- 2) **Niles, M.T.** “Vermont Household Responses to Food Waste and Policies”. Invited Keynote Speaker. *Composting Association of Vermont- Vermont Organics Recycling Summit.* August 2020.
- 3) **Niles, M.T.** “Vermont Perceptions and Responses to Food Waste”. Invited Speaker. *New York State Association For Solid Waste Management Annual Meeting.* Lake Placid, NY October 2018.
- 4) **Niles, M.T.** “Food Waste in Vermont Households: Current and Future Behaviors”. Invited Speaker. *Universal Recycling Stakeholder Group. Vermont Agency of Natural Resources.* Monthly Meeting, Berlin, VT. September 2018.
- 5) **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.
- 6) **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.
- 7) **Niles, M.T.** “The true cost of food”. Invited Panelist. *Cooking for Solutions Conference at the Monterey Bay Aquarium. Monterey, CA.* May 2010.
- 8) **Niles, M.T.** “How can food dollars influence climate change action?” Invited Speaker. *California Certified Organic Farmers Annual Conference. Chico, CA.* February 2010.

- 9) **Niles, M.T.** “The current state of genetically-modified crops and their potential to combat climate change.” Invited Speaker. *California Climate Change and Agriculture Summit*. UC Davis. Davis, CA. October 2009.
- 10) **Niles, M.T.** “Reducing foodprints: The role of meat in climate change.” Invited Speaker. *Chefs Collaborative Summit*. Chicago, IL. September 2009.
- 11) **Niles, M.T.** Youth Delegate, Kellogg Food and Society Conference. San Jose, CA. April 2009.
- 12) **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

National and International:

- **Civil Eats**, March 23, 2021. [20 Hotspots to start fixing nitrogen pollution in agriculture.](#)
- **BBC Newsday**. January 2021. (Live radio interview). [How climate change is affecting kids’ nutrition.](#)
- **Forbes**, January 2021. [Climate change pushing up child malnutrition levels, finds 19-country study.](#)
- **Daily Mail**, January 2021. [Climate change worsens child malnutrition: study](#)
- **The Telegraph**, January 2021. [Climate change is leaving children with less to eat.](#)
- **National Public Radio**, All Things Considered. November 2020. [Farmers are Warming Up to the Fight against Climate Change.](#)
- **Healio**, April 2020. [Health impact of unemployment during COVID-19 pandemic](#)
- **Health News Digest**, April 2020. [Food Insecurity in Vermont Has Risen 33% During Pandemic](#)
- **The Takeaway (WNYC NPR Studios)**, September 10, 2019. [What is the United States doing about food waste?](#)
- **New York Times**, September 8, 2019. [The world wastes tons of food. A grocery happy hour is one answer.](#)
- **Times Higher Education**, July 27, 2019. [Academics think, ‘others value journal prestige and metrics, not me’](#)
- **Newsweek**, May 13, 2018. [Americans Waste 150,000 Tons of Food Every Day—That’s a Pound Per Person](#)
- **Fox News**, April 20, 2018. Healthy People Waste the Most Food, Study Finds. Story appeared on the websites of at least 30 Fox affiliates
- **USA Today**, April 19, 2018. [Americans waste an astounding amount of food — and healthy eaters are the worst.](#) Story also appeared in at least 40 other outlets via the USA Today Network.
- **Food & Wine**, April 19, 2018. [Here’s How Much Food You’re Wasting Everyday](#)
- **Mother Jones**, April 18, 2018. [A New Study Shows the Stunning Amount of Food People Toss in the Garbage Every Day](#)
- **CBS News**, April 18, 2018. [American Waste Nearly a Pound of Food Each Day](#)
- **Washington Post**, April 18, 2018. [The staggering environmental footprint of all the food that we just throw in the trash.](#) Story appeared in at least 20 other sites via the Washington Post newswire
- **Reuters**, Top 10 Stories. November 27, 2017. [Cash is best when tackling hunger caused by drought: study](#)

Regional:

- **VT Digger**, June 2021. [Vermonters gardened, foraged and hunted more during the pandemic, study says.](#)
- **Vt Digger**, April 2020. [Food insecurity up in Vermont during pandemic, UVM survey finds.](#)
- **Vermont Edition, Vermont Public Radio** (Live guest). April 2020. [Rising Food Insecurity And Hunger Relief Amid The Pandemic](#)
- **Vermont Public Radio**, January 22, 2020. [Vermonters want to keep food waste out of landfills- they just don’t want to pay for it.](#)
- **Feedstuffs**, July 12, 2019. [Benefits of sheep grazing systems examined.](#)
- **Seven Days**, June 11, 2019. [UVM Researchers study benefit of sheep grazing at Shelburne Vineyard.](#)
- **Seven Days**, April 24, 2019. [A Consideration of Food Waste: How Much Are You Throwing Away?](#)
- **WCAX Burlington**, February 18, 2019. [How serious of a problem is food insecurity at UVM?](#)
- **Vermont Public Radio, Vermont Edition**, October 30, 2018. (Live interview). [How our food choices can affect climate change](#)

Additional research featured in:

Vermont Public Radio, 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:

- 2021 Search Committee Member, Director Food Systems Research Center
- 2020 Search Committee Member, Associate Dean and Director of Extension
- 2020 Faculty member, Society for the Advancement of Chicanos, Hispanics, and Native Americans in Science
- 2019- ARS Center for Food Systems Research Steering Committee
- 2018- Selection Committee, Gund Fellows, Gund Institute for Environment
- 2017- President, Phi Beta Kappa
- 2017- Chair, Collections Subcommittee, Library Advisory Committee
- 2017-2020 Co-Chair Food Insecurity Working Group (helped develop, implement and solely analyzed two rounds of UVM food security surveys (n= > 2,200) on campus among students, staff and faculty)
- 2017- Reviewer, Summer Undergraduate Research Fellowship
- 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
- 2015-2020 Admissions Committee, Food Systems Graduate Program, University of Vermont
- 2017- 19 Faculty Advisor, Feel Good
- 2017-18 Search Committee Member, NFS Public Health Nutrition Position
- 2017-18 Faculty Member, Real Food Challenge Group
- 2016-17 Phi Beta Kappa Selection Committee, University of Vermont
- 2016 Moderator, Lieutenant Governor Candidate Forum, United Academics, April 2016.

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
- 2012-13 External Chair, Government and Legislation, Graduate Student Association
- 2012-13 Co-Chair, Policy Committee, Society for Conservation Biology
- 2011 Conference Co-Director, "The Business of Ecology: Private Sector and Academic Collaborations"
- 2010-12 Executive Committee, Russell Ranch Research Facility
- 2009-12 External Board Member, Agricultural Sustainability Institute
- 2009-11 Co-Chair, Ecology Graduate Student Association
- 2008-10 Organizing Committee, Symposium on Sustainable Food and Agriculture

ACADEMIC SERVICE

- 2014- 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*
- 2016-17 Bioethics Program Committee, American Dairy Science Association
- 2015- External Reviewing Experience:
 - **External Funding Reviewer:**
 - o 2021- National Science Foundation/USDA Artificial Intelligence Institutes
 - o 2018-2019- National Science Foundation Decision, Risk, Management Sciences

- o 2017- Foundation for Food and Agriculture Research
- o 2017- USDA Climate Master's Program
- o 2016- National Science Foundation Economics Program
- o 2015- USDA AFRI
- o 2015- European Research Council
- o 2015- Global Center for Food Systems Innovation
- **Government Report External Reviewer:**
 - o 2018- Dairy 2014: Nutrient Management Practices of U.S. Dairy Operations. USDA APHIS Report.
- **International Report External Reviewer:**
 - o 2020- Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report, Working Group Three, Invited Expert Reviewer for Food Systems

LEADERSHIP AND COMMUNITY SERVICE

- 2019-2021 Board Member, Rural Vermont
- 2017-18 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
- 2013-14 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
- 2011-12 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.