

Rachel E. Schattman

University of Maine | 5722 Deering Hall | Orono, Maine 04469 | rachel.schattman@maine.edu
[Research website](#) | [Research Gate Profile](#) | [Google Scholar Profile](#)

EDUCATION

University of Vermont	Agroecology	Ph.D.	2016
University of Vermont	Natural Resources	M.S.	2009
Sarah Lawrence College	Environmental Studies	B.A.	2004

PROFESSIONAL EXPERIENCE

2025 – present	University of Maine School of Food and Agriculture	Associate Professor of Sustainable Agriculture
2020 – 2025	University of Maine School of Food and Agriculture	Assistant Professor of Sustainable Agriculture
2016 – 2019	United States Department of Agriculture, Northeast Climate Hub	Postdoctoral Research Fellow, Natural Resource Specialist
2018 – 2019	University of Vermont Extension, Vegetable and Berry Program	Affiliate
2009 – 2019	Bella Farm, LLC	Owner, manager
2017 – 2018	University of Vermont Extension	Research specialist
2015 – 2016	University of Vermont Agroecology and Livelihoods Collaborative	Research Specialist
2009 – 2012	University of Vermont Extension, Center for Sustainable Agriculture	Outreach Specialist
2008 – 2009	University of Vermont, Writing in the Disciplines Program	Graduate Research Assistant
2008 – 2007	University of Vermont, Rubenstein School of Environment and Natural Resources	Graduate Teaching Assistant
2005 – 2006	The People’s Institute for Re-envisioning Education and Development, Udaipur, Rajasthan, India	Employee, Art Festival Organizer

AWARDS, DISTINCTIONS, AND APPOINTMENTS

2025	University of Maine College of Earth, Life, and Health Sciences Research Collaboration Award, for work on wild blueberries (with Philip Fanning (lead), Seanna Annis, Sean Brikel, Lily Calderwood, Robson Machado, Jonathan Malacarne, Brian McGill, Stephanie Miller, Jennifer Perry, Yongjiang Zhang)
2024	University of Maine Faculty Mentor Impact Award
2024	University of Maine College of Earth, Life, and Health Sciences Research Collaboration Award, for work on PFAS contamination on agricultural lands (with Caroline Noblet (lead), Pauline Kamath, Diane Kopec, Ling Li, Jean MacRea, Ellen Mallory, Glenda Pereira, Juan Romero, & Yongjiang Zhang)
2023	Supported by UMaine to enroll in the National Center for Faculty Development & Diversity (NCFDD) faculty bootcamp

2021 – 2022	Mentoring Program with Opportunities for Ways to Excel in Research (EMPOWER) program – University of Maine and University of Maine at Machias
2020 – present	Fellow, The George J. Mitchell Center for Sustainability Solutions
2020 – present	Affiliate faculty, The University of Maine Climate Change Institute
2020 – present	Cooperating faculty, University of Maine Dept of Anthropology
2018 – present	Affiliate, The Gund Institute for the Environment
2016	Honorable mention, Best Dissertation in the Social Sciences, University of Vermont

EXTERNAL FUNDING

Total funding generated as **lead principal investigator** = \$4,783,723

2025 – 2026	Wild Blueberry Commission of Maine. <i>Wild Blueberry Climate Change Investigations: Intersecting Effects of Rainfall and Temperature on Ecosystem Services.</i>	\$50,860
2025 – 2026	University of Maine / USDA Agricultural Research Service: <i>PFAS transport from soil to surface and groundwater: Evaluation and validation of candidate models</i>	\$48,148
2025 – 2028	The USDA Northeast Climate Hub, US Forest Service Northern Research Station, <i>Building Preparedness to Reduce Risk on Working Lands</i>	\$258,000
2024 – 2025	USDA Office of the Chief Economist. <i>Climate Hubs 5-year review</i>	\$15,000
2024	General Mills, Inc., <i>SHIP program evaluation project: Soil health practice adoption in Wilkin Co. MN</i>	\$30,934
2023 – 2025	The USDA Northeast Climate Hub, US Forest Service Northern Research Station, <i>Climate change adaptation and mitigation research, outreach, and education for land managers in Maine and the Northeast</i>	\$54,000
2023	Maine Farmland Trust and the Maine Farmers and Gardeners Association. <i>PFAS support at Hunter Farm</i>	\$25,900
2023 – 2024	USGS WRRI 104B Program. <i>Hydrologic and hydraulic performance of novel shallow wells in agricultural landscapes</i>	\$38,686
2023 – 2025	United States Department of Agriculture, NRCS. <i>Soil health partnership and relationship building with Tribal communities</i>	\$1,000,000
2023 – 2027	United States Department of Agriculture, NIFA Climate Hubs and Extension. <i>The Climate Adaptation and Mitigation Fellowship (CAMF): Peer-to-peer learning for farmers and agricultural advisors</i>	\$1,500,000
2023 - 2024	American Farmland Trust. <i>From the ground up: An integrated study of PFAS transfer factors and mitigation strategies</i>	\$246,389
2023 - 2024	Jasper Wyman’s and Sons. <i>The Wyman’s Wild Blueberry Research and Innovation Center initiation funds</i>	\$152,624
2023 – 2027	United States Department of Agriculture, NIFA Bioenergy, Natural Resources, and Environment (BNRE) program area. <i>Current and Future Climate Change Effects on The Ecosystem Services and Economics of Wild Blueberries</i>	\$650,000
2023	Maine Department of Conservation, Agriculture, and Forestry. <i>Maine Farmers Drought Relief Program priority recommendations</i>	\$42,523
2022 – 2023	Wild Blueberry Commission of Maine Research and Cooperative Extension Program. <i>Precipitation and temperature change in wild blueberries in Maine</i>	\$46,381
2021 – 2025	Northeast Sustainable Agriculture Research and Education (NE SARE) Graduate Student Program. <i>How does climate adaptation knowledge spread in advisor-farmer networks? Tracking the long-term impacts of the Northeast Climate</i>	\$15,000

Adaptation Fellowship. Graduate student written grant: Sara Delaney Studer, Ph.D. student. I serve as PI and primary advisor

2021 – 2022	Ecosystem Service Marketplace Consortium, <i>Assessment of Ecosystem Service Marketplace Programing</i>	\$70,105
2021	The University of Maine George J. Mitchell Center for Sustainability Solutions, <i>Strategic Development of the Mitchell Center Graduate Student Fellows Program</i>	\$3,164
2020 – 2024	The USDA Northeast Climate Hub, US Forest Service Northern Research Station, <i>Climate change adaptation and mitigation research, outreach and education for land managers in Maine and the Northeast</i>	\$89,800
2020 – 2021	Maine Food and Agriculture Center, Integrated Research and Extension Grant. <i>The effects of changing precipitation patterns in specialty crops in the Northeast</i>	\$4,995
2020 – 2023	Northeast Sustainable Agriculture Research and Education (NE SARE) Professional Development Program. <i>The Northeast Climate Adaptation Fellowship to Support Fruit and Vegetable Producers</i>	\$149,000
2020 – 2023	General Mills Inc. <i>Enhancing adoption of regenerative agriculture practices in U.S. wheat farming systems</i>	\$204,000
2019 – 2020	United States Department of Agriculture, NIFA Bioenergy, Natural Resources, and Environment (BNRE) program area. <i>Whole farm water: Improving water use efficiency in Northeast specialty crop operations</i>	\$49,000
2019 – 2021	Northeast Sustainable Agriculture Research and Education (NE SARE) Research for Novel Approaches (USDA). <i>Turn the tap: Integrated research to support sustainable irrigation practices on northeast vegetable farms</i>	\$125,000
2017 – 2018	UVM College of Agriculture and Life Sciences/Extension Seed Grant. <i>Whole Farm Water Policy Review Project</i>	\$5,000
2017 – 2018	Northeast Center for Advancement of Food Safety (FDA). <i>UVM Food Safety Website Development Project</i>	\$12,000
2014	Local Food Market Development Grant Program (Vermont Agency of Agriculture, Food and Markets). <i>Improvement of local food delivery to Vermont institutions</i>	\$5,000
2013 – 2014	Specialty Crop Block Grant Program (Vermont Agency of Agriculture, Food and Markets, USDA). <i>Spotted Wing Drosophila Exclusion Netting Study for Vermont Blueberries</i>	\$17,000
2013 – 2014	Northeast Sustainable Agriculture Research and Education (NE SARE) Graduate Student Grant (USDA). <i>Spotted Wing Drosophila Exclusion Netting Study for Vermont Blueberries [awarded but declined]</i>	\$14,000
2014	Annie’s Homegrown Sustainable Agriculture Scholarship	\$2,500
2011 – 2013	Specialty Crop Block Grant Program (Vermont Agency of Agriculture, Food and Markets, USDA). <i>Growing a Community that Feeds Itself</i>	\$20,000
2008 – 2009	Vermont Sustainable Agriculture Council Research Grant. <i>Indicators of Sustainability in the Vermont-Regional Food System</i>	\$2,500

Total funding generated as **co-PI**, in which I contributed significantly to proposal development = \$6,987,104

2024 – 2026	USDA-NIFA. <i>In-situ phytoremediation of PFAS-contaminated soils to return farmland to useful productivity</i>	\$650,000
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2023 – 2026	Agriculture and Food Research Initiative (USDA-NIFA). <i>Sustainable energy leaders of the future (SELF 3.0) – Residential program for rural high school girls.</i> (Lead PI: Ling Li)	\$200,000
2023 – 2025	USDA Natural Resources Conservation Service (NRCS) Conservation Innovation Grant (CIG). <i>Best practices for brown ash cultivation and assessment of nursery capacity.</i> (Lead PI: Nicole Rogers McLellan)	\$78,371
2023	Congressional earmark. <i>Advancing Research and Extension of Wild Blueberry Production for Changing Markets and Climates.</i> (Lead PI: Phillip Fanning)	\$2,997,000
2022 – 2025	Agriculture and Food Research Initiative (USDA-NIFA). <i>Rural experiences with food insecurity and health during COVID-19 and strategies for future resilience.</i> (Lead PI: Meredith T. Niles)	\$650,000
2022 – 2024	Northeast Sustainable Agriculture Research and Education (NE SARE) Novel Approaches Program. <i>Covering ground: Assessing effectiveness of interseeded cover crops in late season vegetables to enhance soil health in the Northeast.</i> (Lead PI: Jason Lilley)	\$176,333
2021	Maine Food and Agriculture Center, Integrated Research and Extension Grant. <i>Food access and food security in Maine since COVID-10 – A collaboration with the National Food Access and COVID research team</i> (Lead PI: Kate Yerxa)	\$3,500
2020 – 2023	University of Vermont Gund Institute for the Environment Joint Catalyst Program. <i>The impact of the local food system and natural environment on rural food security and health outcomes during the COVID-19 pandemic</i> (Lead PI: Dr. Meredith Niles)	\$100,000
2019 – 2023	McIntire Stennis Forestry Research Program. <i>Adaptation and Restoration of Northern Forests: Collaborative Management of Forests at Risk across the Urban to Rural Gradient</i> (Lead PI: Dr. Antony D’Amato)	\$1,383,000
2017 – 2019	Agriculture and Food Research Initiative (USDA-NIFA). <i>Assessing Climate Perceptions and Developing Adaptation Resources for Small, Medium, and Beginning Farmers</i> (Lead PI: Dr. Meredith Niles)	\$500,000
2017 – 2018	Agriculture and Food Research Initiative (USDA-NIFA). <i>The Climate Adaptation Fellowship: A Collaborative Curriculum Design Project</i> (Lead PI: Dr. Joshua Faulkner)	\$248,900
Total funding generated as key personnel, in which I contributed significantly to proposal development = \$187,000		
2015 - 2018	UVM Agricultural Research Competitive Hatch Award (USDA). <i>Vermont Agriculture in a Changing Climate: Towards a Resilient Farmer Typology</i> (PI: V. Ernesto Méndez)	\$45,000
2012 - 2013	UVM Extension Competitive Grant Round. <i>The new American farmer: Technical skills for vegetable growers pilot program</i> (PI: Dr. Linda Berlin) [Awarded, but left position before project started]	\$51,000
2011 - 2013	Specialty Crop Block Grant, State of Vermont. <i>Growing a community that feeds itself.</i> (PI: Dr. Linda Berlin)	\$20,000
2009 - 2011	UVM Extension Competitive Grant Round. <i>Around the table with local food pilot Program</i> (PI: Dr. Linda Berlin)	\$71,000

MANUSCRIPTS (published, forthcoming or accepted)

N = 41, * Graduate student working under my direction

1. Delaney*, S., Anderzén, J., Fernandez, I., & **Schattman**, R. E. (in press). Innovating Together: Outcomes from an integrated technical-experiential-social agricultural climate adaptation education program. *Agriculture and Human Values*.
2. **Schattman**, R. E. (2026) What we lose when we don't say "climate change": The dangers of censorship in agricultural research and outreach. *Agroecology and Sustainable Food Systems*. DOI: 10.1080/21683565.2026.2621668
3. Scarce*, A. E., MacRae, J. D., Goossen, C. P., Zhang, J. Y., Holt, K. P., & **Schattman**, R. E. (2025) Uptake of per- and polyfluoroalkyl substances (PFAS) into lettuce (*Lactuca sativa*), tall fescue (*Schedonorus arundinaceus*) and tomato (*Solanum lycopersicum*): A greenhouse experiment evaluating bioconcentration factors and testing the effect of intercropping. *Environmental Advances*,100629. DOI: 10.1016/j.envadv.2025.100629.
4. Scarce, A. E.*, MacRae, J., Goossen, C. P., Zhang, Y-J., Holt, K. P., Scott, G. P., & **Schattman**, R. E. (2025). Intercropping minimally influences differential per- and polyfluoroalkyl substances (PFAS) uptake in three agricultural crops. *Journal of Agriculture and Food Research*. DOI: 10.1016/j.jafr.2025.102533
5. Bliss, S., McCarthy, A., Mitchell, R., Merrill, S., **Schattman**, R. E., Anderzén, J., Niles, M. T. (2025) Do home and wild food procurement enhance food security in high-income countries? *Current Environmental Health Reports*12(32): 1-24. DOI: 10.1007/s40572-025-00495-6
6. Swanwick, R. H.*, **Schattman**, R. E., D'Amato, A. W., Everett, T., Ranco, D., & Daigneault, A. J. (2025). Improving Cross-Cultural Knowledge Exchange for Collaborative Forest Stewardship. *Environmental Science and Policy*. DOI: 10.1016/j.envsci.2025.104241
7. Scarce, A. E.*, MacRae, J., Goossen, C. P., Zhang, Y-J., Holt, K. P., Scott, G. P., & **Schattman**, R. E. (2025). Intercropping minimally influences differential per- and polyfluoroalkyl substances (PFAS) uptake in three agricultural crops. *Journal of Agriculture and Food Research*. DOI: 10.1016/j.jafr.2025.102533
8. Scarce*, A. E., MacRae, J. D., Goossen, C. P., Zhang, J. Y., Holt, K. P., & **Schattman**, R. E. (2025) Uptake of per- and polyfluoroalkyl substances (PFAS) into lettuce (*Lactuca Sativa*), tall fescue (*Schedonorus Arundinaceus*) and tomato (*Solanum Lycopersicum*): A greenhouse experiment evaluating bioconcentration factors and testing the effect of intercropping." *Environmental Advances*,100629. DOI: 10.1016/j.envadv.2025.100629.
9. Brenner, R. M., Kelemen, S., Hulbert, C., **Schattman**, R. E. (2024). From the classroom to the farm: A collaborative academic-practitioner disaster resilience program. *Journal of Security, Intelligence, and Resilience Education* 18(9): 1-10.
10. **Schattman**, R. E., Merrill, S. C., & Tracy, W. (2024). Shifts in geographic vulnerability of U.S. corn crops under different climate change scenarios: Corn flea beetle (*Chaetocenma pulicaria*) and Stewart's Wilt (*Pantoea stewartii*) bacterium. *Environmental Entomology*. DOI: 10.1093/ee/nvae099
11. Ring, A.* & **Schattman**, R. E. (2024). Scaling Up Nursery Production for Agroforestry. *Tree Planters' Notes* 67(1): 38-47.
12. Bliss, S., Musumeci, S., Belarmino, E., Merrill, S. C., Bertmann, F., **Schattman**, R. E., & Niles, M. T. (2024). Non-market food production contributes to long-term resilient food security in ways that standard indicators miss. *Agroecology and Sustainable Food Systems*. DOI: 10.1080/21683565.2024.2378697
13. **Schattman**, R. E., Malacarne, J., Mallory, E., & Goossen, C. P. (2024). Coping with water extremes in agriculture: Aligning farmer needs and advisor confidence, skills, and expertise. *Environmental Research: Food Systems*. DOI: 10.1088/2976-601X/ad63ab
14. **Schattman**, R. E., Clark, P., D'Amato, A. W., Ontl, T., Littlefield, C., & North, E. (2024). Forester interest in, and limitations to, adapting to climate change across the rural-to-urban gradient. *Climate Risk Management*. DOI: 10.1016/j.crm.2024.100624
15. Belarmino, E., Malacarne, J. G., McCarthy, A., Bliss, S., Laurent, J., Merrill, S. C., Niles, M. T., Nowak, S., **Schattman**, R. E., Yerxa, K. (2024). Suboptimal diets identified among adults in the most rural states. *Journal of Hunger Education Nutrition*. DOI: 10.1080/19320248.2024.2313524
16. Niles, M. T., McCarthy, A., Malacarne, J., Bliss, S., Belarmino, E. H., Laurent, J., Merrill, S. C., Nowak, S., & **Schattman**, R. E. (2024). Home and wild food procurement were associated with improved food security during the COVID-19 pandemic in two rural US states. *Scientific Reports* 14(1): 2682. DOI: 10.1038/s41598-024-52320-z.
17. Scarce, A. E.*, Goossen, C. P., **Schattman**, R. E., Mallory, E. B., & MacRae, J. D. (2023). Linking drivers of plant

- per- and polyfluoroalkyl substance (PFAS) uptake to agricultural land management decisions. *Biointerphases*, 18: 040801. DOI: 10.1116/6.0002772
18. **Schattman**, R. E., Jean, H.* , Faulkner, J. W., Maden, R., McKeag, L., Campbell Nelson, K., Grubinger, V., Burnett, S., Erich, M. S., & Ohno, T. (2023). Effects of Irrigation Scheduling Approaches on Soil Moisture and Vegetable Production in the Northeastern U.S.A. *Agricultural Water Management*, 287, 108428. DOI: 10.1016/j.agwat.2023.108428.
 19. Goossen, C., **Schattman**, R. E., & MacRae, J. D. (2023). Evidence of compost contamination with PFAS from “compostable” food serviceware. *Biointerphases*, 18(3). DOI: 10.1116/6.0002746
 20. McGann, T. C.* , **Schattman**, R. E., D’Amato, A. W., & Ontl, T. (2023). Public opposition to harvesting as a barrier to climate change adaptation: Perceptions and responses of foresters across the northeastern United States. *Society and Natural Resources*. DOI: 10.1080/08941920.2023.2234838
 21. **Schattman**, R. E., Rowland, D. L., & Kelemen, S. C.* (2023). Sustainable and regenerative agriculture: Tools to address food insecurity and climate change. *Journal of Soil and Water Conservation*, 78(2), 33A-38A. DOI: 10.2489/jswc.2023.1202A
 22. McGann, T. C.* , **Schattman**, R. E., D’Amato, A. W., & Ontl, T. A. (2022). Climate adaptive management in the Northeastern US: Commons strategies and motivations of rural and urban foresters. *Journal of Forestry* 1-14. DOI: 10.1093/jofore/fvac039
 23. **Schattman**, R. E., Smart, A., Birkel, S., Jean, H.* , Barai, K., & Zhang, Y. J. (2022). Strawberry growth under current and future rainfall scenarios. *Water* 14(3): 313. DOI: 10.3390/w14030313.
 24. Niles, M. T., Beavers, A. W., Clay, L. A., Dougan, M. M., Pignotti, G. A., Rogus, S., Savoie-Roskos, M. R., **Schattman**, R. E., Zack, R. M., Acciai, F., Allegro D., Belarmino E. H., Bertmann F., Biehl, E., Birk, N., Bishop-Royse, J., Bozlak, C., Bradley B., Brenton, B. P., Buszkiewicz, J., Cavaliere, B. N., Cho, Y., Clark, E. M., Coakley, K., Coffin-Schmitt, J., Collier, S. M., Coombs, C., Dressel, A., Drownowski, A., Evans, T., Feingold, B. J., Fiechtner, L., Fiorella, K. J., Funderburk, K., Gadhoke, P., Gonzales-Pacheco, D., Greiner Safi, A., Gu, S., Hanson, K. L., Harley, A., Harper, K., Hosler, A. S., Ismach, A., Josephson, A., Laestadius, L., LeBlanc, H., Lewis, L. R., Litton, M. M., Martin, K. S., Martin, S., Martinelli, S., Mazzeo, J., Merrill, S. C., Neff, R., Nguyen, E., Ohri-Vachaspati, P., Orbe, A., Otten, J. J., Parmer, S., Pemberton, S., Al Abdeen Qusair, Z., Rivkina, V., Robinson, J., Rose, C. M., Sadeghzadeh, S., Sivaramakrishnan, B., Torres Arroyo, M., Voorhees, M., & Yerxa, K. (2021). 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*, nzab135. DOI: 10.1093/cdn/nzab135
 25. Roesch-McNally, G., Wiener, S., Reyes, J., Rottler, C., Balachowski, J., & **Schattman**, R.E. (2021). Supporting practitioners in developing effective decision support tools for natural resource managers. *Journal of Soil and Water Conservation* 76(4): 73A-78A. DOI: 10.2489/jswc.2021.0618A
 26. **Schattman**, R. E., Trinity, L., Clark, E., & Merrill, S. C. (2021). Awards: Untapped motivation for agricultural conservation behavior. *Elementa: Journal of the Anthropocene* 9(1): 00120. DOI: 10.1525/elementa.2021.00120
 27. **Schattman**, R. E., Caswell, M. J., & Faulkner, J. W. (2021). Eyes on the horizon: Temporal perspectives of climate risk and agricultural decision making. *Society and Natural Resources*. DOI: 10.1080/08941920.2021.1894283
 28. Basche, A., Tully, K., Alvarez-Berrios, N. L., Reyes, J., Lengnick, L., Brown, T., Moore Kucera, J., **Schattman**, R. E. Koepke Johnson, L., Roesch-McNally, G. (2020). Evaluating the untapped potential of U.S. conservation investments to improve soil and environmental health. *Frontiers in Sustainable Food Systems*. DOI: 10.3389/fsufs.2020.547876
 29. **Schattman**, R. E., Niles, M. T., & Aitken, H. M. (2020). Water use governance in a temperate region: Implications for agricultural climate change adaptation in the Northeastern United States. *Ambio* 50(4): 942-955. DOI: 10.1007/s13280-020-01417-6
 30. Doran, E., Zia, A., Hurley, S., Tsai, Y., Koliba, C., Adair, C., **Schattman**, R. E., Rizzo, D., & Méndez, V. E. (2020). Social psychological determinants of farmer intentions to adopt nutrient management practices: Implications for resilient adaptation to climate change in the Lake Champlain Basin. *The Journal of Environmental Management*. 276(15): 111304. DOI: 10.1016/j.jenvman.2020.111304
 31. Wiener, S., Roesch-McNally, G., **Schattman**, R. E., and Niles, M. T. (2020). Ready, willing, and able? USDA field staff as climate advisors. *The Journal of Soil and Water Conservation*. DOI: 10.2489/jswc.75.1.62

32. **Schattman**, R. E., Hurley, S., Greenleaf, H., Niles, M. T., & Caswell, M. (2020). Visualizing climate change adaptation: An effective tool for agricultural outreach? *Weather, Climate, and Society*. DOI: 10.1175/WCAS-D-19-0049.1
33. **Schattman**, R. E., Kaplan, M., Aitken, H. A., & Helminski, J. (2019). Climate change curricula for adult audience in agriculture and forestry: A review. *The Journal of Adult and Continuing Education*. 25(1): 131-151. DOI: 10.1177/1477971419840670
34. **Schattman**, R. E., Hurley, S., & Caswell, M. (2019). Now I see: Photovisualization to support agricultural climate adaptation. *Society and Natural Resources*. 32(2): 222-228. DOI: [10.1080/08941920.2018.1530819](https://doi.org/10.1080/08941920.2018.1530819)
35. Niles, M. T., Wiener, S., **Schattman**, R. E., Roesch-McNally, G., and Reyes, J. (2019). Seeing isn't always believing: Crop loss and climate change perceptions among farm advisors. *Environmental Research Letters* 14 (4). DOI: 10.1088/1748-9326/aafbb6
36. **Schattman**, R. E., Roesch-McNally, G., Wiener, S., Niles, M., & Hollinger, D. Y. (2018). The influence of perceived risk, experiences with loss and disaster, and climate belief on use of weather and climate information in FSA services. *Renewable Agriculture and Food Systems*. <https://doi.org/10.1017/S1742170517000783>
37. Warner, B. P., **Schattman**, R. E., & Hatch, C. (2017). Farming the floodplain: Ecological and agricultural tradeoffs and opportunities in river and stream governance in New England's changing climate. In *Case Studies in the Environment*. DOI: 10.1525/cse.2017.sc.512407
38. **Schattman**, R., Méndez, V. E., Merrill, S. C., & Zia, A. (2017). Climate change best management practices: Evaluation of attributes by agricultural producer and technical service providers. *Agroecology and Sustainable Food Systems*, 42(2): 121-148. DOI 10.1080/21683565.2017.1357667
39. **Schattman**, R., Connor, D., & Méndez, V. E. (2016). Farmer perceptions of risk in the Northeastern United States. *Elementa: Journal of the Anthropocene*. Special Forum on Sustainability Agroecological Systems. DOI 10.12952/journal.elementa.000131.
40. Fernandez, M., Méndez, V. E., Mares, T. & **Schattman**, R. (2016). Agroecology and alternative agrifood movements in the United States: Towards a sustainable agrifood system, in V. E. Méndez, C. Bacon, R. Cohen, & S. Gliessman (Eds.), *Agroecology: A transdisciplinary, participatory and action oriented approach*. (pp. 161-172). Boca Raton, FL: CRC Press/Taylor & Francis.
41. **Schattman**, R., Berlin, L., Boschner, F., & Lawrence, M. (2015). Farmers' engagement with community food insecurity: Approaches, perspectives, and implications for Extension. *Journal of Extension*. 53(4): 4FEA2.
42. Berlin, L., **Schattman**, R., Hamilton, J. (2012). Working towards the common table: The policy and program implications of Vermont's unified approach to social justice, food insecurity and local food. *The Journal of Hunger and Environmental Nutrition*, 7(2-3).

BOOK CHAPTERS

1. Benkeblia, N., **Schattman**, R.E., Wiener, S. & Roesch-McNally, G. (2018). Ch 1: Climate change and crop production: Set the stage for resilience, in N. Benkeblia (Ed.), *Climate change and crop production: Foundations for agroecosystem resilience*. (pp. 1-23). Boca Raton, FL: CRC Press/Taylor & Francis.
2. **Schattman**, R., Méndez, V. E., Westdijk, K., Caswell, M., Conner, D., Koliba, C., Zia, A., Hurley, S., Adair, E. C., Berlin, L., & Darby, H. (2014). Ch 14: Vermont agricultural resilience in a changing climate: A transdisciplinary and participatory action research (PAR) process, in N. Benkeblia (Ed.) *Agroecology, ecosystems and sustainability*. (pp. 326-343). Boca Raton, FL: CRC Press/Taylor & Francis.

CONFERENCE PROCEEDINGS

1. **Schattman**, R. E., Faulkner, J. W., & Bradshaw, T., Eds. (2020). Proceedings of the Northeast Specialty Crop Water Symposium [pp. 1-67]. Burlington, Vermont. [DOI: 10.6084/m9.figshare.12383003](https://doi.org/10.6084/m9.figshare.12383003)

REFEREED CONFERENCE ABSTRACTS

1. **Schattman**, R.E., Lilley, J., & Asieduwaa G. A.* (2022). Covering ground: Interseeded Cover Crops in Late Season Vegetables. Presentation at the New England Vegetable and Berry Growers Association Conference. December 14, 2022. Manchester, NH.

2. **Schattman, R. E.**, & Faulkner, J. W. (2020). On-farm irrigation monitoring and initial results from a controlled irrigation trial in Burlington, Vermont. *Proceedings of the Northeast Specialty Crop Water Symposium* [pp. 25-26]. Burlington, Vermont. [DOI: 10.6084/m9.figshare.12383003](https://doi.org/10.6084/m9.figshare.12383003)
3. Faulkner, J. W., & **Schattman, R. E.** (2020). Improving water use efficiency practices and technology in vegetable systems. *Proceedings of the Northeast Specialty Crop Water Symposium* [pp. 45-46]. Burlington, Vermont. [DOI: 10.6084/m9.figshare.12383003](https://doi.org/10.6084/m9.figshare.12383003)
4. **Schattman, R. E.** (2019). Up your adaptation game with the Climate Adaptation Fellowship: A new program for vegetable and berry growers and agricultural advisors. *The New England Vegetable and Fruit Growers' Conference* [pp. 71-72]. Manchester, NH.

PROFESSIONAL PUBLICATIONS, REPORTS, AND DATASETS

1. Arnold, S., Dickson, S., Fernandez, I., Reilly-Moman, J., Bacon, L., Baranes, H., Barton, A., Birkel, S., Brady, D., Calderwood, L., Carlson, G., Contosta, A., Cross, A., Daigneault, A., deMaynadier, P., Drammeh, M., Elias, S., Gardner, A., Goode, A., Goossen, C., Hayes, D., Hodgkins, G., Isenhour, C., Johnson, A., Johnson, E., Kelley, J., King, M., Koehler, G., Lilley, J., Lincoln, R., Lombard, P., Lyon, B., Mills, K., Ontl, T., Price, N., Puryear, K., Ranco, D., Record, N., Rubin, J., **Schattman, R.**, Slovinsky, P., Soucy, A., Stockwell, S., Tokunaga, K., Wahle, R., Weiskittel, A., Wilson, C. "Scientific Assessment of Climate Change and Its Effects in Maine 2024 Update." A Report by the Scientific and Technical Subcommittee of the Maine Climate Council. Augusta, ME, 2024.
2. Bello, A.* & **Schattman, R. E.** (2024). Effects of historical and future precipitation on wild blueberries. Research report published in the University of Maine Extension annual Wild Blueberry Research Report.
3. Bello, A.* & **Schattman, R. E.** (2024). Assessment of water needs in wild blueberries at four phenological stages. Research report published in the University of Maine Extension annual Wild Blueberry Research Report.
4. Kelemen, S. C.* & **Schattman, R. E.** (2023). Sustainable and Regenerative Agriculture Adoption Policy Brief. Submitted on request to Representative Yadira Caraveo of Colorado District 8 (serves on the Agriculture Committee).
5. Bello, A.* & **Schattman, R. E.** (2023). Past, present and future dynamics of wild blueberry production in Maine under precipitation scenarios. Research report published in the University of Maine Extension annual Wild Blueberry Research Report.
6. **Schattman, R. E.**, Jean, H.*, Faulkner, J., Maden, R., & Chim, B. K. (2023). Soil water availability monitoring for diversified vegetable farms. University of Maine and University of Vermont.
7. **Schattman, R. E.**, Jean, H.*, Faulkner, J., Maden, R., & Chim, B. K. (2023). Comparing soil water monitoring systems: Components and costs of granular matrix sensors and tensiometers. University of Maine and University of Vermont.
8. McCarthy, A. C., Bertmann, F., Belarmino, E., Bliss, S., Laurent, J., Malacarne, J., Merrill, S., **Schattman, R. E.**, Yerxa, K., & Niles, M. T. (2022). A 2022 Assessment of Food Security and Health Outcomes During the COVID-19 Pandemic. [UVM College of Agriculture and Life Sciences Publications](https://uvm.edu/calsfac/publications), National Food Access and COVID Research Team (NFACT).
9. 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. (2021). Home Food Production and Food Security Since the COVID-19 Pandemic. *UVM College of Agriculture and Life Sciences Faculty Publications*. 189. <https://scholarworks.uvm.edu/calsfac/189>
10. Whiton, T., Yerxa, K., and **Schattman, R. E.** (2021). COVID-19 affects coping strategies and food access for Maine adults. University of Maine / NFACT. [Fact sheet](#).
11. **Schattman, R. E.** and Yerxa, K. (2021). Shopping, eating, and dietary behaviors of Maine adults as a result of COVID-19: A focus on older adults. University of Maine / NFACT. [Fact sheet](#).
12. **Schattman, R. E.** and Yerxa, K. (2021). Food insecurity and use of food-assistance programs and food pantries of Maine adults as a result of COVID-19. University of Maine / NFACT. [Fact sheet](#).
13. **Schattman, R. E.**, Goossen, C., and Calderwood, L. (2021). The 2020 Maine Drought and Agriculture Report. University of Maine, Orono. 1-30. DOI: 10.6084/m9.figshare.14474055.
14. Basche, A., Tully, K., Álvarez-Berríos, N. L., Reyes, J., Lengnick, L., Brown, T., Moore, J. M., **Schattman, R. E.**,

- Roesch-McNally, G. (2020). Environmental Quality Incentives Program (EQIP) U.S. data at state, county and individual practice level for soil and environmental health, 2009-2018. Fort Collins, CO: Forest Service Research Data Archive. <https://doi.org/10.2737/RDS-2020-0076>
15. **Schattman, R. E., & Faulkner, J. W.** (2019). How much is enough? Dialing in irrigation on Northeast vegetable farms. [Research brief](#) published by the USDA NE Climate Hub. Durham, NH.
 16. Wiener, S., Roesch-McNally, G., & **Schattman, R. E.** (2018). National survey of USDA field staff on climate and weather: Results from a survey of Natural Resources Conservation Service and Farm Service Agency Employees. Washington D.C.: USDA Climate Hubs. [Link](#).
 17. **Schattman, R. E.** (2017). Agroecology in Africa: Focus on soil stewardship in Senegal. Guest blogpost, Winrock International. [Link](#).
 18. Warner, B. & **Schattman, R. E.** (2017). Farming in the floodplain: Overcoming tradeoffs to achieve good river governance in New England. Case study published by the National Socio-Environmental Synthesis Center (SESYC), Bethesda, MD. [PDF](#).
 19. **Schattman, R. E.** (2017). Clovercrest Farm: A family dairy in Charleston, Maine. Case study published by the USDA NE Climate Hub. Durham, NH.
 20. **Schattman, R. E.** (2016). Vermont agricultural resilience in a changing climate: An investigation of farmer perceptions of climate change risk and adaptation. Dissertation presented to the Graduate College of the University of Vermont
 21. **Schattman, R. E., Izzo, V., & Chen, Y. F.** (2015). Exclusion netting for managing spotted wing drosophila on berry farms in the northeastern United States. Agroecology and Rural Livelihoods Group Research Brief # 3: University of Vermont.
 22. **Schattman, R. E., Aitken, H. M., Méndez, V. E. & Caswell, M.** (2014). Climate change resilience on Vermont farms: A research report for service providers. Agroecology and Rural Livelihoods Group Research Brief # 2: University of Vermont.
 23. **Schattman, R. & Méndez, V. E.** (2012). Vermont farm resilience in a changing climate: A survey of agricultural service providers. Agroecology and Rural Livelihoods Group Research Brief # 1: University of Vermont.
 24. Berlin, L., Hamilton, J., & **Schattman, R.** (2011). Working towards the common table: How Vermont addresses social justice and food access with local food and why it matters. *Opportunities for Agriculture White Paper Series*. Food System Research Collaborative, University of Vermont.
 25. **Schattman, R., Nickerson, V., & Berlin, L.** (2010) Dissolving the doublebind: Strategies for expanding food access and developing Vermont's local food system. Report prepared for the Farm to Plate Project, Vermont Sustainable Jobs Fund. Updated by R. **Schattman** and S. Sawyer in 2014.
 26. **Schattman, R. & Cannella, M.** (2008). Maintaining farm identity through alternative marketing practices. Report prepared for the Intervale Center.
 27. **Schattman, R. E.** (2009). Sustainability indicators in the Vermont-regional food system. Master's thesis presented to the Graduate College of the University of Vermont
 28. **Schattman, R.** (2008). Sustainable food sourcing and distribution in the Vermont-regional food system. Report prepared for the Sustainable Agriculture Council.

UNIVERSITY TEACHING EXPERIENCE

University of Maine – School of Food and Agriculture

PSE 215: Vegetable and Fruit production (3 credits, UG, odd fall semesters)

PSE 360: Agroecology and Sustainable Cropping Systems (4 credits, UG, odd fall semesters)

PSE 430: Sustainable Horticulture and Agriculture Capstone (3 credits, UG, every spring semester)

PSE 312: Sustainable Food Systems: Challenges and Opportunities (3 credits, UG, even fall semesters)

PSE 101: Introduction to Cropping Systems (3 credits, UG, taught in spring 2020 – retired course)

University of Vermont – Plant and Soil Science Department and Environmental Studies Department

ENVS 195: The Vermont Food System (3 credits, UG, taught 3 semesters)

PSS 207: Organic Farm Planning (3 credits, UG, taught 1 semester)

CURRICULUM DEVELOPMENT

The Climate Adaptation and Mitigation Fellowship (CAMF): Diversified vegetable and agroforestry module; Women and Non-binary vegetable farmer module Row Crop module	Target audience: Farmers and agricultural advisors	2024
The Climate Adaptation Fellowship (CAF): Vegetable and small fruit module	Target audience: Farmers and agricultural advisors	2019
Farming in the Floodplain	Target audience: Graduate students	2016
Around the Table with Local Food	Target audience: Parents of young children	2012

GUEST LECTURES (selected)

- Introduction to Sustainable Agriculture, UMaine (2023, 2024, 2025)
- Sustainable Vegetable and Fruit Production, UMaine (2021)
- Plant and Soil Science Graduate Seminar, UVM (2019)
- Plant and Soil Science Graduate Professional Skills Colloquium, UVM (2018)
- Ecological Agriculture, UVM (2017)
- Advanced Agroecology, UVM (2014, 2015, 2017)
- Organic Farm Planning, UVM (2015)
- Farm to Table, UVM (2016)
- Applied Research Methods, UVM (2015)
- Geography 0200, Middlebury College (2012)
- Agricultural Policy and Ethics, UVM (2010, 2011)

STUDENT MENTORING AT THE UNIVERSITY OF VERMONT, THE UNIVERSITY OF MAINE and COLORADO STATE UNIVERSITY

Name	Program, Institution	Degree	Start date – end date*	Research title
Graduate student advisees (UMaine) or co-advisees (UVM) - GRADUATED				
Haley Jean	PSE, UMaine	M.S.	2020 – 2022	Implementation of soil moisture sensors in diversified vegetable operations in the northeastern United States
Sara Kelemen	PSE, UMaine	M.S.	2020 – 2022	Improving use of soil health practices in Kansas: A study of barriers to adoption and novel incentive programs
Tessa McGann	RSENR, UVM	M.S.	2020 – 2022	Climate adaptive forest management in the northeastern U.S.: Social and ecological motivations, barriers, and responses of rural and urban foresters
Ali Bello	PSE, UMaine	M.S.	2021 – 2024	Assessment of water needs in wild blueberry at phenological stages
Rachel Swanwick	RSENR, UVM	M.S.	2022 – 2024	Advancing equitable approaches to climate adaptation: Exploring barriers,

				opportunities, and cross-cultural socio-environmental collaborations for forest stewardship across tribal nations and state agencies in Maine, USA
Alaina Ring	PSE, UMaine	M.S.	2022 – 2024	Qualitative evaluation of private nursery capacity in the United States
Alexandra Scarce	PSE, UMaine	M.S.	2022 – 2024	Establishing baseline transfer factors and investigating the role of competition on uptake of per- and polyfluoroalkyl substances (PFAS) in <i>Lactuca sativa</i> , <i>Solanum Lycopersicum</i> , and <i>Festuca arundinacea</i>
Sara Delaney Studer	EES, UMaine	Ph.D.	2021 – 2025	The introduction, spread and evolution of climate adaptation practices in agricultural advisor-farmer pairs and broader knowledge networks: Tracking the long-term impacts of the Northeast Climate Adaptation Fellowship
Graduate student advisees (UMaine) or co-advisees (UMaine/UVM) - CURRENT				
Alexandra Scarce	EES, UMaine	Ph.D.	2024 – 2028*	TBD
Ali Bello	EES, UMaine	Ph.D.	2024 – 2028*	TBD
Kahryn Cullenberg	SFR, UMaine	M.S.	2024 – 2026*	TBD
Gladys Adu Asieduwaa	EES, UMaine	Ph.D.	2022 – 2026*	Covering ground: Assessing effectiveness of interseeded cover crops in late season vegetables to enhance soil health in the Northeast
Graduate Committee Membership				
Erin Jackson	Ecology, CSU	Ph.D.	2022-2026*	TBD
Jacob Schwab	EES, UMaine	Ph.D.	2023-2026*	Soilless food crop and cut flower production in the Northeast US
Jessica Hutchinson	PSE, UMaine	M.S.	2022-2024	The Drought Tolerance, Vegetative Propagation Success, and Genetic Analysis of <i>Betula pumila</i>
Emily Francis	SFR, UMaine	Ph.D.	2020-2024	Understanding management involvement, knowledge sharing, and social networks in conservation of brown ash in the face of emerald ash borer
Rebecca Maden	PSS, UVM	Ph.D.	2020 – 2023	Emerging Soil Health Practices on Vermont Vegetable Farms
Rebecca Champagne	EES, UMaine	Ph.D.	2018 – 2022	Evaluating Cultivation Tolerance and Improving Mechanical Weed Control in Organic Vegetables
Johnny Sanchez	EES, UMaine	M.S.	2019 – 2021	Evaluating Methods for Research in Physical Weed Control and Farm Asset Tracking
Carly Frank	QCS, UMaine	M.S.	2020 – 2022	Assessment of Historical Climate Variability in Maine with Implications for

				Future Agricultural Productivity and Adaptation
Undergraduate Honors Thesis Committee Membership				
Katherine Tims	Biology**	B.S.	2021	Scientific Knowledge Shaping Perceptions of Bioengineered Food among Undergraduate Students
Hannah Mathieu	English and EES (double major)	B.S.	2023	Best practices guide for building sustainable, mutually beneficial relationships between the Lewiston-Auburn Community Market and local farmers within the greater Lewiston-Auburn area
Charlie Cooper	EES	B.S.	2024	Assessment of interseeding of cover crops and beneficial ground-dwelling arthropod abundance in a northeastern agroecosystem
Brigid Mrenna	EES, Forest Ecology	B.S.	2025*	Testing how plant traits predict survival of Northeastern U.S. tree seedlings under compound heat and drought stress
Eddie Nachamie	EES	B.S.	2026*	TBD
Ashley Regan	EES	B.S.	2026*	TBD
Amelia Mooney	EES	B.S.	2026*	TBD
Richard Viveros	SBE	B.S.	2026*	TBD

* = anticipated graduation; ** = highest honors awarded

PSE = Plant, Soil, and Environmental Science; RSENr = Rubenstein School of Environment and Natural Resources; PSS = Plant and Soil Sciences; EES = Ecology and Environmental Sciences; QCS = Quaternary and Climate Studies; UVM = University of Vermont; UMaine = University of Maine; CSU = Colorado State University

AWARDS TO STUDENTS WORKING IN MY LAB

2024 – Alaina Ring, M.S. student – Awarded the Donglin Zhang graduate scholarship from the Maine Landscape and Nursery Association (MELNA) (\$1,000).

2024 – Gladys Adu Asieduwaa, Ph.D. student – Awarded the People’s Choice Award at the 3MT (3-minute Thesis) Competition. (Hosted by the UMaine Graduate College)

2023 – Rachel Swanwick, M.S. student (at UVM, I co-advised) – Awarded the UVM Outstanding M.S. Research and Scholarship Award through the Rubenstein School of Environment and Natural Resources.

2021 – Sara Delaney (Ph.D. student). USDA NE-SARE Graduate Student Grant for her project: *How does climate adaptation knowledge spread in advisor-farmer networks? Tracking the long-term impacts of the Northeast Climate Adaptation Fellowship*. \$15,000

2021 – Haley Jean (M.S. student). University of Maine Boucher Scholarship in 2021 for *excellence in academic and research performance*.

2020 – Sara Kelemen (M.S. student). George J. Mitchell Center for Sustainability Solutions, award for *outstanding*

student contribution to sustainability research.

SELECTED PROFESSIONAL SERVICE AND RELATED ACTIVITIES

2025 – present	Graduate coordinator, Graduate Board Representative	University of Maine School of Food and Agriculture, Plant Soil and Environment graduate program
2024 - present	Advisory Committee	The Savanna Institute
2024	National Science Foundation (NSF) Virtual Site Visit team service, Convergence Accelerator Track J awardee	National Science Foundation (NSF)
2016, 2020, 2021, 2024	Grant Panel Reviewer and ad hoc reviewer, virtual site visit evaluator	USDA-NIFA, various programs / USDA-AMS, NSF
2021 - present	Maine State Technical Committee / Irrigation Subcommittee / Chair of the Climate Smart Agriculture Subcommittee	USDA Natural Resources Conservation Service (NRCS)
2021 - 2025	Technical Committee Member	USDA Northeast Sustainable Agriculture Research and Education (NE-SARE)
2021 - 2022	Publications Committee	International Association of Society and Natural Resources (IASNR)
2021 - 2023	Conference Planning Committee member	The Soil and Water Conservation Society
2021 - 2023	Technical advisory board member	Pioneering ideas: Exploring the future to build a culture of health (UVM / John Hopkins)
2019 - present	Editorial Board Member, Associate Editor	Society and Natural Resources (SNR)
2017	Volunteer Educator	Winrock International Farmer to Farmer Program, Senegal
2013 - 2016	Committee Member	Agricultural and Natural Area Committee (ANAC) of Monkton, Vermont
2011 - 2015	Council Member	University of Vermont Farmer Training Program
2008 - 2009	Steering Committee Member	Burlington Farmers’ Market
2012 - 2014	Board Member	Rural Vermont
2008 - 2009	Committee Member	University of Vermont Socially Responsible Investment Workgroup (SRI)

JOURNAL GUEST REVIEWING (selected)

- Agricultural and Human Values (2016, 2017, 2025)
- Agroecology and Sustainable Food Systems (2024, 2025)
- Agronomy (2018)
- Climate (2019)
- Climate Risk Management (2017)
- Climatic Change (2019)

Ecological Applications (2021)
 Ecosphere (2023)
 Elementa (2022)
 Journal of Extension (2023)
 Journal of Rural Studies (2019)
 Nature Food (2020, 2021)
 PLOS Water (2024)
 Rural Sociology (2024)
 Society and Natural Resources (2019, 2020, 2021, 2022, 2023, 2024, 2025)
 Sustainability (2018)
 Water (2019)
 Weather, Climate and Society (2020, 2021)

BOOK PROPOSAL REVIEWS

Springer Nature – Earth Sciences, Geography, and Environment Division (2020)

ADDITIONAL TRAINING AND PROFESSIONAL DEVELOPMENT

2025	Neurodivergence in the Classroom	University of Maine Center for Innovation in Teaching and Learning (CITL)
2023, 2025	Faculty Success Program Bootcamp	National Center for Faculty Development and Diversity (NCFDD)
2021	Federal Opportunities	UMaine Office of Research Development (ORD)
2021	Effective Mentorship: Intentional Strategies for Success	UMaine/UMaine Machias EMPOWER Program
2021	Plus-one Strategies for Universal Design for Learning: Making Visuals Accessible	University of Maine Center for Innovation in Teaching and Learning (CITL)
2021	Virtual Grants Workshop	National Science Foundation (NSF)
2021	Science Communications Workshop Series: Science Engagement with People of Faith	AAAS Center for Public Engagement with Science and Technology
2020	Online Teaching and Learning Community of Practice – 6 week workshop	University of Maine Center for Innovation in Teaching and Learning (CITL)
2020	Community-based Service Learning Workshop	University of Maine Center for Innovation in Teaching and Learning (CITL)
2018 - 2019	Soil as a Social-Ecological Feedback (pursuit)	The National Socio-environmental Synthesis Center (SESYNC)
2018	Summer Institute on Cyberinfrastructure	The National Socio-environmental Synthesis Center (SESYNC)
2016	Teaching Socio-environmental Synthesis with Case Studies	The National Socio-environmental Synthesis Center (SESYNC)
2012	Supervising Today’s Student Employees	University of Vermont Human Resources
2010	Facilitative Leadership: Tapping the Power of Participation	Interaction Associates
2010	Field Guide to Evaluation Short Course	Community Food Security Coalition

2009 - 2014, Extension Professional Improvement Conference University of Vermont Extension
2018 (EPIC)

PROFESSIONAL ASSOCIATIONS

	<i>Member since</i>
Association for Environmental Studies and Sciences	2018
Soil and Water Conservation Society	
- <i>Serve on annual conference planning committee (2022/2023)</i>	2017
- <i>Serve on regional director nominations committee (2023)</i>	
Agriculture, Food and Human Values Society	2016
International Association for Society and Natural Resources	
- <i>Serve on the IASNR's journal editorial board and as an Associate Editor (2019 – present)</i>	2016
- <i>Served on the Publications Committee (2020-2021)</i>	
Soil Science Society of America / Crop Society of America / Agronomy Society of America	2021

PRESENTATIONS

* Graduate student working under my direction; ** undergraduate student working under my direction

Invited academic presentations

1. Schattman, R. E. (2024). Panel discussion at the Growing Outreach Conference. Madison, Wisconsin. August 22, 2024.
2. Hammond Wagner, C. & Schattman, R. E. (2023). Navigating Contradictions: Climate Adaptation Planning at the Farm and Regional Scale. Food and Ideas Gathering (FIG). University of Vermont and USDA Agriculture Research Service (ARS) Food Systems Research Center, Burlington, Vermont. November 9, 2023.
3. Schattman, R. E. (2023). Panel discussion on Food Systems and Climate Change. UVM Food Systems Summit. Burlington, Vermont. Hosted by the University of Vermont Food Systems Research Center. November 10, 2023.
4. Schattman, R. E. (2023). Sustainable and regenerative agriculture: Tools to address food insecurity and climate change. The Soil and Water Conservation Society webinar series: Conservation Matters: Climate Change Impacts on Soil and Water Conservation. April 27, 2023. (online)
5. Schattman, R. E. (2023). Dealing with drought: Aligning farmer needs and advisor confidence, skills, and expertise. The George J. Mitchell Center for Sustainability Solutions, Spring Sustainability Talks, Orono, Maine. March 27, 2023.
6. Schattman, R. E. (2022). Sustainable food systems. Keynote, University of Maine Dietetic Internship annual meeting. May 6, 2022. (online)
7. Schattman, R. E. & Yerxa, K. (2021). Food Access and Food Security in Maine Since the Coronavirus Outbreak. Maine Association of Nutrition and Dietetics (MAND) Virtual Annual Conference. April 15, 2021. (online)
8. Schattman, R. E., Hurley, S., Caswell, M., Niles, M. T., & Greenleaf, H. (2020). Now I see: Photovisualization to support agricultural adaptation to climate change. University of Maine Cooperating Faculty of Anthropology. November 30, 2020.
9. Schattman, R. E. & Yerxa, K. (2020). Safety nets and bootstraps: Mainers and food insecurity in the time of COVID-19. Senator George J. Mitchell Center for Sustainability Solutions, Sustainability Talks fall series. September 21, 2020. (online)
10. Schattman, R. E., & Ontl, T. (2020) The Climate Adaptation Fellowship: Collaborative curriculum design, peer-to-peer learning. Presentation to the USDA Forest Service First Friday All Climate Change Talks (FFACCTs). May 1, 2020. (online)

Oral presentations at scientific conferences – peer reviewed abstracts

1. Murphy, S. Y., Hammond Wagner, C., Peplinski, H., Schattman, R. E., Ayotte, J. (2025). Quantifying the hydrologic impacts of changing climatic conditions on agricultural water resources in New England using the precipitation runoff model system. George J. Mitchell Center for Sustainability Solutions Water Conference, Augusta, Maine. March 27, 2025.
2. Clark, P., D'Amato, A., Schattman, R.E., Strong, M., Brady, M., & Burton, G. (2025). Perceptions and priorities of forest wildlife managers in the Northeast in the context of global change. New England Society of American Foresters annual conference. Burlington, Vermont. March 27, 2025.
3. Schattman, R. E., Kelemen, S., Holcomb, K., Nowatzke, L., & Giacometti, M. (2024). The Climate Adaptation and Mitigation Fellowship: Building communities for learning, planning, and implementation. Growing Outreach Conference. Madison, Wisconsin. August 22, 2024.
4. Delaney, S. E.* & Schattman, R. E. (2024). Reinforcement through community: The role of farmer and advisor social networks in supporting persistent innovation and outreach in a changing climate. Growing Outreach Conference. Madison, Wisconsin. August 22, 2024.
5. McCarthy, A. C., Laurent, J. S., Bertmann, F., Belarmino, E. H., Bliss, S., Malacarne, J., Merrill, S., Mitchell, R.,
6. Schattman, R. E. (2023). Sustainable and regenerative agriculture: Tools to address food insecurity and climate change. Soil and Water Conservation Society Conference, Des Moines, Iowa. August 6-9, 2023.
7. Kelemen, S. C.*, Schattman, R. E., Erich, S. M., & Basche, A. (2023). Agricultural ecosystem service marketplaces: Farmer perspectives on program efficacy and soil health management. Soil and Water Conservation Society Conference, Des Moines, Iowa. August 6-9, 2023.
8. Schattman, R. E., Ohno, T., Faulkner, J., Maden, R., & Jean, H.* (2023). When to turn on the water? The effects of irrigation strategies in mixed vegetables in the Northeast. Soil and Water Conservation Society Conference, Des Moines, Iowa. August 6-9, 2023.
9. Scarce, A.*, Schattman, R. E., MacRae, J., Goossen, C., Zhang, Y-J., & Mallory, E. (2023). Uptake Takeaways: A review of uptake drivers of per and polyfluoroalkyl substances (PFAS) in crops. Presentation at the George J. Mitchell Center for Sustainability Solutions Water Conference. Augusta, Maine. March 30, 2023.
10. Laurent, J., Bertmann, F., Alpaugh, M., Belarmino, E., Bliss, S., Malacarne, J., McCarthy, A.C. Merrill, S.C., Schattman, R.E., Yerxa, K., & Niles, M.T. (2022). Food security and health outcomes following the COVID-19 pandemic in northern New England. 13th Annual Nursing Research & Evidence-Based Practice Symposium, University of Vermont Medical Center. November 17, 2022.
11. Mallory, E., Schattman, R. E., & Molloy, T. (2022). Building capacity in climate change adaptation practices. Presentation at the National Association of County Agricultural Agents (NACAA) annual conference, West Palm Beach, FL. July 10, 2022.
12. McGann*, T., & Schattman, R. E. (2021). Urban and Rural Foresters' Perceptions of Global Change and Adaptive Management in the Northeastern US. Society of American Foresters 2021 National Convention. Abstract ID Number: 148. November 6, 2021. (online)
13. Merrill, S.C., Schattman, R. E., Trinity, L., & Clark, E. (2021). Motivators of agricultural conservation practice adoption. Presentation to the Vermont EPSCoR Research Slam (Burlington, VT). August 9, 2021.
14. Schattman, R. E., Lane, E. & Kaplan, M. (2021). Building a community of climate communicators in agriculture. International Association of Society and Natural Resources (IASNR) Annual Conference. June 24, 2021. (online)
15. Schattman, R. E. (2021). Effects of the Maine 2020 Drought on Agriculture Producers. 28th Annual Harold W. Borns Jr. Symposium, University of Maine Climate Change Institute. April 5, 2021. (online)
16. Evanylo, G., Amundson, R., Cassman, K., Lengnick, L., Rosch-McNally, G., & Schattman, R. E. (Symposium organizers). (2020). The role of food production in climate change: Finding new ground. ASA-CSSA-SSSA International Annual Meeting. November 6-9, 2020. (online)

Oral presentations at professional meetings

1. Schattman, R. E., Cannella, M., & Holcomb, K. (2026). Business planning and climate change. Maine Organic

- Farmers and Gardeners Farmer to Farmer Conference, Portland, Maine. February 8, 2026.
2. Schattman, R. E. (2026). Integrating Adaptation and Mitigation Plans into Farm Business Plans. Extreme weather and climate virtual workshop for New Jersey Agricultural Technical Service Providers (hosted by Rutgers University), virtual. February 11, 2026.
 3. Schattman, R. E. (2026). Creating Long-term Adaptation and Mitigation Plans. Extreme weather and climate virtual workshop for New Jersey Agricultural Technical Service Providers (hosted by Rutgers University), virtual. February 11, 2026.
 4. Schattman, R. E. (2026). Estimating water needs during dry periods. Extreme weather and climate virtual workshop for New Jersey Agricultural Technical Service Providers (hosted by Rutgers University), virtual. February 11, 2026.
 5. Schattman, R. E., Miller, R., & Smith, M. (2026). Water management intensive training. Northeast Organic Farming and Gardening Association of Vermont annual conference, Colchester, Vermont. February 15, 2026.
 6. Schattman, R. E. (2026). Developing climate resilience water management plans for diverse cropping systems. Northeast Organic Farming and Gardening Association of Vermont annual conference, Colchester, Vermont. February 14, 2026.
 7. Nachamie, E.** & Schattman, R. E. (2025). What's Next? A Policy Analysis of PFAS Legislation in Maine and Throughout the United States. Statewide PFAS collaboration meeting. Waterville, ME. March 25, 2025.
 8. Schattman, R. E. (2025). Novel shallow wells and increasing Maine farm resilience against extreme weather. University of Maine Extension Preseason Tree Fruit Meeting, Lewiston, Maine. March 19, 2025
 9. Schattman, R. E. (2025). Climate change studies at the Wyman's Center. 2025 University of Maine Wild Blueberry Conference, Ellsworth, Maine. February 15, 2025
 10. Schattman, R. E. (2025). Developing a research agenda for alley cropping in the Northeast. Maine Agriculture Trade Show, Augusta, Maine. January 14, 2025
 11. Schattman, R. E. (2024). Panel presentation on climate change and food systems. Annual conference of the National Association of Conservation Districts – Pacific Region. Anchorage, Alaska. September 11, 2024
 12. Schattman, R. E. & Anderzén, J. M. (2024). Climate change, agriculture, and arctic and subarctic regions. Annual conference of the National Association of Conservation Districts – Pacific Region. Anchorage, Alaska. September 11, 2024.
 13. Schattman, R. E. (2024). Climate change risk planning. University of Maine Extension Wild Blueberry Field Day. Jonesboro, Maine. June 27, 2024.
 14. Schattman, R. E. (2024). Water management planning in a changing climate. Climate Adaptation and Mitigation Fellowship summer session. May 30, 2024. (online)
 15. Schattman, R. E. (2024). Climate change adaptation and mitigation planning. NCAT ATTRA Growing Hope Conference. Fayetteville, Arkansas. May 9, 2024.
 16. Schattman, R. E. (2024). Developing climate resilient water management plans for diverse cropping systems. Maine Organic Farmers and Gardeners Association / Northeast Organic Farming and Gardening Association of Vermont Farmer Climate Forums. March 28, 2024. (online)
 17. Bello, A.* & Schattman, R. E. (2024). Irrigation and precipitation effects on wild blueberries in Maine. Presentation to the Wild Blueberry Advisory Committee. Orono, Maine. February 12, 2024.
 18. Schattman, R. E., & Kelemen, S. C. (2024). Soil health and climate adaptation planning. Half- day workshop at the PASA Sustainable Agriculture Conference. Lancaster, PA. February 8, 2024.
 19. Schattman, R. E., & Kelemen, S. C. (2024). Soil health and climate adaptation planning. Full day workshop at the PASA Sustainable Agriculture Conference. Lancaster, PA. February 7, 2024.
 20. Schattman, R. E., MacFarland, K., & Ring, A.* (2024). Agroforestry Research and Demonstration: New initiatives at the Wyman's Center at UMaine. The USDA Northeast Climate Hub, January 30, 2024 (online).
 21. Jordan, P., Woodruff, V., & Schattman, R. E. (2023). The economics of climate change: A green workforce – adapting jobs for Maine's future. Hosted by the Maine State Chamber of Commerce and Science is US (AAAS). August 1, 2023. (online).
 22. Schattman, R. E. (2023). Climate change: What does it mean for agriculture? Summit on Maine's Economy and Climate Change. Hosted by Climate Work Maine. Augusta, Maine. May 19, 2023. (I)

23. Schattman, R. E. & Bello, A.* (2023). Irrigation approaches for wild blueberries. Wild Blueberry Field Day. Jonesboro, Maine. Hosted by University of Maine Extension. July 22, 2023.
24. Schattman, R. E. (2023). The Wyman's Research and Innovation Center at the University of Maine: Long term wild blueberry research for climate resiliency. Presentation at the University of Maine Wild Blueberry Conference. Bangor, Maine. February 25, 2023. (I)
25. Bello, A.* & Schattman, R. E. (2023). Irrigation and future precipitation scenarios: Effects on wild blueberries. Presentation to the Wild Blueberry Advisory Committee of Maine. Orono, Maine. February 16, 2023.
26. Faulkner, J. W., Maden, R., & Schattman, R. E. (2023). Surface water use and irrigation efficiency. Presentation at the Vermont Vegetable and Berry Growers Association Annual Conference. January 24, 2023. Montpelier, VT.
27. Schattman, R. E. (2023). Novel shallow wells: A new design for water access in Maine. Presentation at the Maine Agricultural Trade Show. January 10, 2023. Augusta, ME.
28. Schattman, R. E. (2023). Measuring soil moisture: When to irrigate. Presentation at the Maine Vegetable and Small Fruit Growers Association annual meeting. January 10, 2023. Augusta, ME.
29. Schattman, R. E., Kelemen, S.* & Delaney, S.* (2023). Climate adaptation planning. Maine Farmland Trust Soil Benchmarking Program full day workshop. January 13, 2023. Viles Arboretum, Augusta, ME.
30. Schattman, R.E., Lilley, J., & Asieduwaa G. A.* (2022). Covering ground: Interseeded Cover Crops in Late Season Vegetables. Presentation at the New England Vegetable and Berry Growers Association Conference. December 14, 2022. Manchester, NH.
31. Schattman, R.E., & Lilley, J. (2022). An introduction to soil moisture monitoring and access to water. Presentation at the MOFGA Farmer to Farmer Conference, November 7, 2022. Belfast, Maine, ME.
32. Schattman, R.E., Lilley, J., & Asieduwaa G. A.* (2022). Tour of field trials at Rogers Farm, University of Maine. Presentation at the MOFGA Farmer to Farmer Conference. November 5, 2022. Old Town, ME.
33. Schattman, R.E., & Scarce, A.* (2022). PFAS and crop research. Presentation to the Maine Board of Agriculture. September 9, 2022. (online)
34. Schattman, R. E. & Jean, H.* (2022). Monitoring soil moisture in Maine: Dialing in irrigation. Presentation to the Maine Climate and Agricultural Practices group. April 25, 2022.
35. Kelemen, S.*, Schattman, R. E., Roesch-McNally, G., & Basche, A. (2022). Social science update. Presentation to the General Mills Global Impact Team, Regenerative Ag Program Partners Meeting. February 1, 2022. (online)
36. Jean, H.* , Schattman, R. E., Faulkner, J. W., Maden, R. (2022). Turn the tap: Irrigation strategies for yield and quality in mixed vegetables. Vermont Vegetable and Berry Growers Association Annual Meeting. January 25, 2022.
37. Schattman, R. E., Saunders, O., Ferla, A., McKaeg, L., Roszell, C., Barker-Plotkin, J., Cowles, R., Jones, J., Ernst, E., Manabe, N., & Siciliano, G. (2021). Climate adaptation on the farm. New England Vegetable and Berry Growers Association (NEVBGA) bi-annual conference. December 13, 2021. (online)
38. Schattman, R. E., Lane, E. D., & Kaplan, M. (2021). Building a climate adaptive community in agriculture. American Society of Adaptation Professionals, Network of Networks Meeting. December 10, 2021. (online)
39. Schattman, R. E., Birkel, S., Lilley, J., Waterman, B., Crocket, B., McKaeg, L., & Ferla, A. (2021). Climate and water management. Maine Organic Farmers and Gardeners Association (MOFGA) Farmer to Farmer Conference. November 5, 2021. (online)
40. Schattman, R. E., Carpenter, A., Roszell, C., Barker Plotkin, J., & Fitzbeauchamp, R. (2021). Soil management and carbon sequestration. Maine Organic Farmers and Gardeners Association (MOFGA) Farmer to Farmer Conference. November 1, 2021. (online)
41. Schattman, R. E. (2021). The social science of conservation. Presentation to USDA-NRCS Conservation Planners, as part of the required professional development series. Recorded webinar to be used annually between 2021-2026. 2,300 participants/year. (I)
42. Schattman, R. E. (2021). Irrigation strategies for diversified farmers. Maine Vegetable and Fruit School, University of Maine Extension. March 31, 2021. (online)
43. Schattman, R. E. (2021) Water management in specialty crops: An overview of research from the University

- of Maine Agroecology Lab. Presentation to the Maine Wild Blueberry Commission. January 26, 2021.
44. Gordon, T., Lilley, J., Jemison, J., Birkel, S., & Schattman, R. E. (2021) 2020 Drought review and preparation for the future. Presentation at the Maine Agriculture Trade Show. January 21, 2021. (online)
 45. Schattman, R. E. (2021) Climate communication: Challenges and strategies. Presented to the Northeast Climate Adaptation Fellowship. January 15, 2021. (online)
 46. Lengnick, L. & Schattman, R. E. (2020). Climate risk management: Identifying adaptation options for your farm. Maine Organic Farmers and Gardeners Association (MOFGA) Farmer to Farmer Conference. November 6, 2020. (online)
 47. Schattman, R. E. (2020). Water use regulations in New England. Presentation at the UMass Extension Vegetable Program Agricultural Water Virtual Twilight Series. September 16, 2020. (online) (I)
 48. Schattman, R. E. (2020). USDA field staff use of climate and weather resources: Perspectives on responding to change. Presentation to the University of Maine Climate Change Institute. March 2, 2020. Orono, ME
 49. Bucini, G., Clark, E., Merrill, S. C., Zia, A., Koliba, C., Trinity, L., Cheney, N., Langle, O., Shrum, T., Schattman, R. E., Beattie, R., Urbani, J., Wiltshire, S., Smith, J. M. (2020). Digital tools for risk mitigation: The intriguing side of human behavior. UVM Plant and Soil Science Department Raymond Series Seminar. January 31, 2020. Burlington, VT.
 50. Schattman, R. E. (2020). Soil and water efficiency in specialty crops. New England Certified Crop Advisor Professional Development Conference. January 29, 2020. Portsmouth, NH. (I)

Oral presentations at community events

1. Hunter, S., Scarce, A.* & Schattman, R. E. (2025). PFAS in cropping systems. Presentation at the Maine Science Festival. Bangor, Maine. March 23, 2025.
2. Schattman, R.E. (2022). PFAS 101: What can be done? Bangor Daily News and Maine Farmland Trust co-presented panel. November 15, 2022. (online)
3. Schattman, R. E. (2021). Sustainable food systems. University of Maine Extension 4-H Ag Ambassadors Program. November 23, 2021.

Poster presentations

1. Nachamie, E.** & Schattman, R. E. (2025). Next? A Policy Analysis of PFAS Legislation in Maine and Throughout the United States. Statewide PFAS collaboration meeting. Waterville, ME. March 25, 2025.
2. McCarthy, A. C., Laurent, J. S., Bertmann, F., Belarmino, E. H., Bliss, S., Malacarne, J., Merrill, S., Mitchell, R., Schattman, R. E., Yerxa, K., & Niles, M. T. (2023). Food insecurity and health disparities following the COVID-19 pandemic in northern New England. University of Vermont Health Equity Summit. Burlington, VT. October 29, 2023.
3. Filan, Z., Leveille, R., McCarthy, A., Bliss, S., Niles, M. T., Laurent, J., Schattman, R. E., & Bertmann, F. (2023). Food security impacts of the COVID-19 pandemic on the LGBTQ+ population research and advocacy. University of Vermont Health Equity Summit. Burlington, VT. October 29, 2023.
4. Scarce, A.*, Goossen, C., MacRae, J., & Schattman, R. E. (2023). Establishing baseline transfer factors and investigating the role of competition on uptake of per- and polyfluoroalkyl substances (PFAS) in *Lactuca sativa*, *Solanum lycopersicum*, and *Festuca arundinacea*. Center for PFAS Research Annual Symposium – PFAS: Current Knowledge and Application for Agricultural Production. Lansing, MI. October 22, 2023.
5. Goossen, C., Schattman, R. E., & MacRae, J. (2023). Evidence of compost contamination with per- and polyfluoroalkyl substances (PFAS) from “compostable” food serviceware. Center for PFAS Research Annual Symposium – PFAS: Current Knowledge and Application for Agricultural Production. Lansing, MI. October 22, 2023.