

DR. ROBYN S. WILSON

The Ohio State University
School of Environment and Natural Resources
2021 Coffey Road, Columbus, OH 43210-1085

Phone: 614.247.6169
Fax: 614.292.7432
Email: Wilson.1376@osu.edu

a. Professional Preparation

Denison University, B.A., Environmental Studies, 2000
The Ohio State University, M.S./Ph.D., Natural Resource Management, 2006
The Ohio State University, Post-doc, Department of Horticulture and Crop Science, 2006

b. Appointments

2019 – present Professor of Risk Analysis and Decision Science, The Ohio State University
2019 – present Professor (by courtesy), School of Communication, The Ohio State University
2014 – present Associate Professor (by courtesy), School of Communication, The Ohio State University
2013 - present Associate Professor of Risk Analysis and Decision Science, The Ohio State University
2007- 2013 Assistant Professor of Risk Analysis and Decision Science, The Ohio State University
2007 Post-Doctoral Research Associate, The Ohio State University
2002-06 Graduate Fellow and Research Assistant, The Ohio State University

c. Peer Reviewed Scientific Publications (*indicates student or post-doc as lead author)

- Shaffer-Morrison, C.D* and **R.S. Wilson**. 2024. The Nutrient Reduction Index: A minimalist and continuous measure of conservation practice adoption among farmers. *Journal of Soil and Water Conservation*, 79(1): 1-7. <https://doi.org/10.2489/jswc.2024.00129>
- Wilson, R.S.**, H. Walpole* and C.D. Shaffer-Morrison*. 2023. Climate exacerbated impacts may drive maladaptive action in agriculture. *Weather, Climate and Society*, 15(2): 437-450. <https://doi.org/10.1175/WCAS-D-22-0074.1>
- Walpole, H.* , **R.S. Wilson**, C. Vollmer-Sanders, and K. Johnson. 2023. Encouragement from the right source: Evaluating the impact of the 4R nutrient stewardship certification program in the Ohio western Lake Erie basin. *Journal of Environmental Quality*, 52(3): 741-748. <https://doi.org/10.1002/jeq2.20460>
- Slagle, K.M. Gabriel Karns, Jeremy T. Bruskotter & **R.S. Wilson**. 2023. Research note: human behavior and effective chronic wasting disease management, *Human Dimensions of Wildlife*, 28(5): 481-489. DOI: <https://doi.org/10.1080/10871209.2022.2075492>
- Beetstra, M.* , **R.S. Wilson** and E. Toman. 2022. The influence of the seasons: How the agricultural calendar impacts farmer perceptions of cover crops”. *Renewable Agriculture and Food Systems*, 37(3): 187-197. <https://doi.org/10.1017/S1742170521000521>
- Iacona, G., S. Avery-Gomm, R. Maloney, J. Brazill Boast, D. Crouse, C. Drew, R. Epanchin-Niell, S. Hall, L. Maguire, T. Male, J. Newman, L. Rumpff, M. Runge, K. Weiss, **R.S Wilson**, M. Zablan, and L. Gerber. 2022. Hurdles to developing quantitative decision support for conservation resource allocation. *Frontiers in Conservation Science*, Vol 3. <https://doi.org/10.3389/fcosc.2022.1002804>
- Webster, D.G., S.A. Aytur, M. Axelrod, R.S. Wilson, J.A. Hamm, L. Sayed, A.L Pearson, P.H.C. Torres, A. Akporiaye, and O. Young. 2022. Learning from the past: Pandemics and the governance treadmill. *Sustainability*, 14(6): 3683. <https://doi.org/10.3390/su14063683>

- Soldo, C.*, **R.S. Wilson**, H. Walpole, and M. Doidge. 2022. Farmer Willingness to Implement Constructed Wetlands in the Western Lake Erie Basin. *Journal of Environmental Management*, 321: 115928. <https://doi.org/10.1016/j.jenvman.2022.115928>
- Doran, E., M. Doidge, S. Aytur, and **R.S. Wilson**. 2022. Understanding farmers' conservation behavior over time: A longitudinal application of the transtheoretical model of behavior change. *Journal of Environmental Management*, 323: 116136. <https://doi.org/10.1016/j.jenvman.2022.116136>
- Walpole, H.* and **R.S. Wilson**. 2022. Why do we conserve? Identifying mechanisms in agricultural conservation practice adoption decisions. *Society and Natural Resources*, 35(3): 340-352. <https://doi.org/10.1080/08941920.2021.2019862>
- Beetstra, M.A., **R.S. Wilson**, M. Doidge. 2022. Conservation behavior over time: Examining a Midwestern farmer sample, *Land Use Policy*, Volume 115, 106002, <https://doi.org/10.1016/j.landusepol.2022.106002>.
- Fischer, A.P., Z. Ma, R.S. Wilson, and E. C.H. Keskitalo. 2022. Editorial: Managing land for risk: Climate decision making in the context of forests, farms and rangelands. *Frontiers in Climate*, 4:867086. doi: 10.3389/fclim.2022.867086
- Rapp, C.E., **R.S. Wilson**. 2022. Factors that contribute to trustworthiness across levels of authority in wildland fire incident management teams, *International Journal of Disaster Risk Reduction*, 73: 102877, <https://doi.org/10.1016/j.ijdr.2022.102877>.
- Slagle KM, **Wilson RS** and Bruskotter JT (2022) Tolerance for Wolves in the United States. *Front. Ecol. Evol.* 10:817809. doi: <https://doi.org/10.3389/fevo.2022.817809>
- Epanchin-Niell, R.S., D.B. Jackson-Smith, **R.S. Wilson**, M. Ashenfarb, A.A. Dayer, V. Hillis, G.D. Iacona, E.M. Markowitz, S.T. Marquart-Pyatt and T. Treakle. 2022. "Private land conservation decision-making: An integrative social science model." *Journal of Environmental Management*, 302 (Part A): 113961. <https://doi.org/10.1016/j.jenvman.2021.113961>
- Walpole, H.*, and **R.S. Wilson**. 2022. "Both Analysis and Feelings? The influence of risk beliefs on holistic risk judgments through dual systems using the ESSA model". *Journal of Risk Research*, 25(1): 1-20. <https://doi.org/10.1080/13669877.2021.1907610>
- Wilson, R.S.** 2022. "Adaptation is context-specific". *Nature Climate Change*, 12(1):8-9. <https://doi.org/10.1038/s41558-021-01233-0>
- Brooker, M.R., J. D'ambrosio, M.M.L. Jones, M. Kalcic, K.W. King, G. Labarge, T. Panchalingam, B.E. Roe, E.R. Schwab, C. Soldo, N.D. Stoltzfus, **R.S. Wilson**, R.J. Winston and J.F. Martin. 2021. "A Public-Private Partnerships to Locate Fields for Implementation and Monitoring of Best Management Practices to Treat Legacy Phosphorus". *Frontiers in Sustainable Food Systems (Waste Management in Agroecosystems)*, 5: 742817. doi: 10.3389/fsufs
- Tellez, C.*, **R.S. Wilson** and H. Walpole. 2021. "Overcoming barriers to government program participation for interested farmers". *Journal of Soil and Water Conservation*, 76(6): 558-567. <https://doi.org/10.2489/jswc.2021.00129>
- Kast, J.*, M. Kalcic, **R.S. Wilson**, D. Jackson-Smith, N. Breyfogle, and J. Martin. 2021. "Evaluating the Efficacy of Targeting Options for Conservation Practice Adoption on Watershed-Scale Phosphorus Reductions". *Water Research*, 201: 117375.
- Rapp, C.*, **R.S. Wilson**, E. Toman, and W.M. Jolly. 2021. "Assessing the role of short-term weather forecasts in fire manager tactical decision-making: a choice experiment". *Fire Ecology*, 17(1): 1-17.
- Schwab, E.*, M. Kalcic, and **R.S. Wilson**. 2021. "Assessing the accuracy of farmers' nutrient loss risk perceptions". *Environmental Management*, 68(4): 539-552.

- Schwab, E. *, **R.S. Wilson** and M. Kalcic. 2021. "Exploring the mechanisms behind farmers' perceptions of nutrient loss risk". *Agriculture and Human Values*, 38(3): 839-850.
- Walpole, H.* and **R.S. Wilson**. 2021. "A Yardstick for Danger: Developing a Flexible and Sensitive Measure of Risk Perception". *Risk Analysis*, 41(11): 2031-2045. <https://doi.org/10.1111/risa.13704>
- Walpole, H.*, C. Rapp, **R.S. Wilson**, and S. McCaffrey. 2021. "Operationalizing homeowner wildfire preparedness in the wildland urban interface". *International Journal of Wildland Fire*, 30(3): 161-169.
- Wilson, R.S. 2021. Invited book review for "Structured decision making: Case studies in Natural Resource Management". *Quarterly Review of Biology*, 96(1): 61.
- Árvai, J., Gray, S. G., Raimi, K. T., **Wilson, R.S.**, & Drummond, C. 2020. "Industry-Dominated Science Advisory Boards Are Perceived To Be Legitimate... But Only When They Recommend More Stringent Risk Management Policies". *Risk Analysis*, 40(11): 2329-2339.
- Rapp, C. *, **R.S. Wilson**, E. Toman and E. Rabung. 2020. "Wildfire decision support tools: An exploratory study of use in the United States". *International Journal of Wildland Fire*, 29(7): 581-594.
- Drummond, C.*, Gray, S. G., Raimi, K. T., **Wilson, R.**, & Árvai, J. 2020. "Public perceptions of federal science advisory boards depend on their composition". *Proceedings of the National Academy of Sciences*, 117(37), 22668-22670.
- Walpole, H. D. *, & **Wilson, R. S.** 2020. "Extending a broadly applicable measure of risk perception: the case for susceptibility". *Journal of Risk Research*, 24(2): 135-147. doi: 10.1080/13669877.2020.1749874
- Walpole, E. H. *, Toman, E., Stidham, M., & **Wilson, R.** 2020. "The science and practice of ecological restoration: a mental models analysis of restoration practitioners". *Environment Systems and Decisions*, 40(4), 588-604.
- Zimnicki, T. Boring, G. Evenson, M. Kalcic, D.L. Karlen, **R.S. Wilson**, Y. Zhang and J. Blesh. 2020. "On quantifying water quality benefits of healthy soils". *Bioscience*, 70(4): 343-352.
- Wilson, R.S.**, A. Herziger, M. Hamilton, and J.S. Brooks. 2020. "From incremental to transformative adaptation in individual responses to climate-exacerbated hazards". *Nature Climate Change*, 10: 200-208.
- Walpole, H. *, **R.S. Wilson** and S. McCaffrey. 2020. "If you love it, let it go: The role of home attachment in delaying evacuation decision making." *Environment, Systems and Decisions*, 40(1): 29-40.
- Bessette, D., Zwickle, S., & **Wilson, R.S.** 2019. "In the weeds: distinguishing organic farmers who want information about ecological weed management from those who need it". *Renewable Agriculture and Food Systems*, 34(5), 460-471.
- Seeger, S. * and **R.S. Wilson**. 2019. "Diffusion of innovations and public communication campaigns: An examination of the 4R Nutrient Stewardship program". *Journal of Applied Communication*, 103(2).
- Goto, S. *, K. Raimi, **R.S. Wilson** and J. Arvai. 2019. "Will Millennials save the world? The effect of age and generational differences on environmental concern". *Journal of Environmental Management*, 242: 394-402.
- Bessette, D.L. *, **R.S. Wilson**, C. Beaudrie and C. Schroeder. 2019. "An online decision support tool to evaluate ecological weed management strategies". *Weed Science*, 67(4): 463-473.
- Slagle, K. *, J.T. Bruskotter, **R.S. Wilson** and E. Toman. 2019. "The symbolic wolf: A construal level theory analysis of the perceptions of wolves in the United States". *Society & Natural Resources*, 32(3): 322-337.

- Wilson, R.S.**, A. Zwickle and H. Walpole*. 2019. "Developing a broadly applicable measure of risk perception". *Risk Analysis*, 39(4): 777-791.
- Besette, D.L. *, **R.S. Wilson**, and J.L. Arvai. 2018. "Do people disagree with themselves? Exploring the internal consistency of complex, unfamiliar, and risky decisions." *Journal of Risk Research*, 24(5): 593-605. <https://doi.org/10.1080/13669877.2019.1569107>
- Wilson, R.S.**, M. Beetstra*, J.M. Reutter, G. Hesse, K.M. DeVanna Fussell, L.T. Johnson, K.W. King, G.A. LaBarge, J.F. Martin, and C. Winslow. 2019. "Commentary: Achieving phosphorus reduction targets for Lake Erie". *Journal of Great Lakes Research*, 45(1): 4-11.
- Bruskotter, J., J. Vucetich, K. Slagle, R. Berardo, A. Singh, and **R.S. Wilson**. 2018. "Support for the U.S. Endangered Species Act over time and space: Controversial species do not weaken public support for protective action". *Conservation Letters*. 11(6): e12595
- Gerber, L.R., M.C. Runge, R.F. Maloney, G.D. Iacona, C.A. Drew, S. Avery-Gomm, J. Brazil-Boast, D. Crouse, R.S. Epanchin-Niell, S.B. Hall, L.A. Maguire, T. Male, D. Morgan, J. Newman, H.P. Possingham, L. Rumpff, K.C.B. Weiss, **R.S. Wilson** and M. Zablan. 2018. "Endangered species recovery: A resource allocation problem". *Science (Policy Forum)*, 362(6412): 284-286.
- Young, O.R., D.G. Webster, M.E. Cox , J. Raakjær , L.O. Blaxekjær , N. Einarsson , R.A. Virginia , J. Acheson , D. Bromley , E. Cardwell , C. Carothers , E. Eythórsson , R.B. Howarth , S. Jentoft , B.J. McCay, F. McCormack , G. Osherenko , E. Pinkerton , R.van Ginkel , J.A Wilson , L. Rivers, III, **R.S. Wilson**. 2018. "Moving beyond panaceas in fisheries governance". *Proceedings of the National Academy of Sciences*, 115(37): 9065-9073.
- Karns, G., A. Heeren, E. Toman, **R.S. Wilson**, H. Szarek and J.T. Bruskotter. 2018. "Should grizzly bears be hunted or protected? Social and organizational affiliations influence scientific judgments". *Canadian Wildlife Biology and Management*, 7(1): 18-30.
- Wilson, R.S.**, D. Schlea, C. Boles, and T. Redder. 2018. "Using models of farmer behavior to inform eutrophication policy in the Great Lakes." *Water Research*, 139(1): 38-46
- Burnett, E. *, **R.S. Wilson**, A. Heeren and J. Martin. 2018. "Farmer adoption of cover crops in the western Lake Erie basin." *Journal of Soil and Water Conservation*, 73(2): 143-155.
- Smith, D.R., **R.S. Wilson**, K.W. King, M. Zwonitzer, J.M. McGrath, R.D. Harmel, R.L. Haney, and L.T. Johnson. 2018. "Lake Erie, phosphorus and microcystin: Is it really the farmer's fault?" *Journal of Soil and Water Conservation*, 73(1): 48-57.
- Wilson, R.S.**. 2017. "Accounting for behavioral responses to environmental cues in complex systems". *Environment Systems & Decisions*, 38(1): 76-78.
- McCaffrey, S., **R.S. Wilson** and A. Konar. 2017. "Should I stay or should I go now? Or should I wait and see? Influences on wildfire evacuation decisions". *Risk Analysis*, 38(7): 1390-1404.
- Weaver, C. P., Moss, R. H., Ebi, K. L., Gleick, P. H., Stern, P. C., Tebaldi, C., **R.S. Wilson** & Arvai, J. L. 2017. "Reframing climate change assessments around risk: recommendations for the US National Climate Assessment". *Environmental Research Letters*, 12(8), 080201.
- Walpole, E.H.* , E. Toman, and **R.S. Wilson**. 2017. "Shared visions, future challenges: a case study of three Collaborative Forest Landscape Restoration Program locations". *Ecology & Society*, 22(2): 35.
- Singh, A.* , A. Zwickle, J.T. Bruskotter, and **R.S. Wilson**. 2017. "The perceived psychological distance of climate change impacts and its influence on support for adaptation policy". *Environmental Science and Policy*, 72:93-99.
- Obrycki, J.F.* , N.T. Basta, and **R.S. Wilson**. 2017. "Evaluating public and regulatory acceptance for urban soil management approaches". *Journal of Environmental Quality*, 46(1): 20-26.

- Heeren, A.*, Karns, G., Bruskotter, J., Toman, E., **Wilson, R.**, & Szarek, H. 2017. "Expert judgment and uncertainty regarding the protection of imperiled species". *Conservation Biology*, 31(3), 657-665.
- Zhang, W.*, **R.S. Wilson**, E. Burnett, E. Irwin, J. Martin. 2016. "What Motivates Farmers to Apply Phosphorus at the "Right" Time? Survey evidence from the Western Lake Erie Basin." *Journal of Great Lakes Research*, 42(6): 1343-1356.
- Irwin, E., J. Campbell, **R.S. Wilson**, A. Faggian, R. Moore and N. Irwin. 2016. "Human adaptations in food, energy and water systems". *Journal of Environmental Studies and Sciences*, 6(1): 127-139.
- George, K.A.*, K.M. Slagle, **R.S. Wilson**, S.J. Moeller, and J.T. Bruskotter. 2016. "Changes in attitudes toward animals in the United States from 1978 to 2014". *Biological Conservation*, 201: 237-242.
- Zwickle, S.*, **R.S. Wilson**, D. Bessette, C. Herms and D. Doohan. 2016. "Facilitating ecological weed management decisions by assessing risk-benefit tradeoffs." *Agroecology and Sustainable Food Systems*, 40(7): 635-659.
- Wilson, R.S.**, D.J. Hardisty, R.S. Epanchin-Niell, M.C. Runge, K.L. Cottingham, D.L. Urban, L.A. Maguire, A. Hastings, P.J. Mumby, and D.P. Peters. 2015. "A typology of time-scale mismatches and behavioral interventions to diagnose and solve conservation problems". *Conservation Biology*, 30(1), 42-49.
- Slagle, K.*, **R.S. Wilson** and A. Heeren. 2015. "Seeking, Thinking, Acting: Understanding suburban resident perceptions and behaviors related to stream quality." *Journal of the American Water Resources Association*, 51(3), 821-832.
- Yocco, V.S.*, Bruskotter, J.T., **Wilson, R.S.**, & Heimlich, J.E. 2015. "Why Should I Care? Exploring the Use of Environmental Concern as a Frame of Communication in Zoos". *The Journal of Environmental Education*, 46(1), 56-71.
- Wilson, R.S.**, G. Howard, and E. Burnett. 2014. "Improving nutrient management practices in agriculture: The role of risk-based beliefs in understanding farmers' attitudes toward taking additional action." *Water Resources Research*, 50(8): 6735-6746.
- Hersha, D.K.* and **R.S. Wilson**. 2014. "What individuals know, do not know, and need to know about watershed health in an urbanizing USA Midwestern city: A mental model approach." *Urban Water Journal*, 11(6): 482-496.
- Jabbour, R.*, E. Gallandt, S. Zwickle, **R.S. Wilson** and D. Doohan. 2014. "Organic farmer knowledge and perceptions are associated with on-farm weed seedbank densities in northern New England." *Weed Science*, 62(2): 338-349.
- Zwickle, S.*, **R.S. Wilson** and D. Doohan. 2014. "Identifying the challenges of promoting Ecological Weed Management (EWM) in organic agroecosystems through the lens of behavioral decision making." *Agriculture and Human Values*, 31(3): 355-370.
- Bruskotter, J. and **R.S. Wilson**. 2013. "Determining where the wild things will be: Using psychological theory to find tolerance for large carnivores." *Conservation Letters*, 7(3): 158-165.
- Jabbour, R.*, E. Gallandt, S. Zwickle, **R.S. Wilson** and D. Doohan. 2013. "Mental models of organic weed management: Comparison of New England U.S. farmer and expert models." *Renewable Agriculture and Food Systems*, 29(4): 319-333.
- Polivka, B.J; R. Chaudry, J.M. Crawford, et al. 2013. "Application and modification of the integrative model for environmental health." *Public Health Nursing*. Vol. 30, no. 2.: 167-176
- Slagle K.M.*, Zajac R., Bruskotter J.T., **Wilson R.S.**, Prange S. 2013. "Building tolerance for bears: A communications experiment." *Journal of Wildlife Management and Wildlife Monographs*. 77(4): 863-869.
- Zajac, R.*, J.T. Bruskotter, **R.S. Wilson**, and S. Prange. 2013. Learning to live with large carnivores: A

- psychological model of black bear acceptance. *Journal of Wildlife Management*. 76: 1331-1340.
- Ascher T.J.*, **Wilson R.S.**, Toman E. 2012. "The importance of affect and perceived risk in understanding support for fuels management among wildland-urban interface residents." *International Journal of Wildland Fire*. 22(3): 267-276.
- Wilson R.S.**, Ascher T.J., Toman E. 2012. "The importance of framing for communicating risk and managing forest health." *Journal of Forestry* 110, 337-341.
- Parker, J.*, **R.S. Wilson**, J. LeJeune, and D. Doohan. 2012. "Including growers in the 'food safety' conversation: Enhancing the design and implementation of food safety programming based on farm and marketing needs of fresh fruit and vegetable producers." *Agriculture and Human Values*. 29(3): 303-319.
- Hersha, D.K., **R.S. Wilson** and A. Baird. 2012. "A conceptual model of the citizen stream stewardship decision process in an urbanizing midwestern United States watershed." *Journal of Environmental Planning and Management*. Vol. 2, no. 55: 253-270.
- Parker, J.*, **R.S. Wilson**, J. LeJeune, L. Rivers III, and D. Doohan. 2012. "An expert guide to understanding grower decisions related to fresh fruit and vegetable contamination prevention and control." *Food Control*. Vol. 1, no. 26: 107-116.
- Pegues, A.H., D.S. Cohan, A. Digar, C. Douglass, and **R.S. Wilson**. 2012. "Efficacy of recent state implementation plans for 8-hour ozone." *Journal of the Air and Waste Management Association*. Vol. 2, no. 62: 252-261.
- Slagle, K.*, J.T. Bruskotter, and **R.S. Wilson**. 2012. "The role of affect in public support and opposition to wolf management." *Human Dimensions of Wildlife*. Vol. 1, no. 17: 44-57.
- Hunter, C., C. Jones, N. Strachan, **R.S. Wilson**, O. Rotariu, D. Chadwick, P. Cross, A.P. Williams, and L.A. McCritchie. 2011. "The relationship between lay and technical understandings of E. coli O157 risk." *Philosophical Transactions of the Royal Society of London B Biological Sciences*. Vol. 1573, no. 366: 1999-2009.
- Syal, S.*, **R.S. Wilson**, J. Crawford and J. Lutz. 2011. "Climate change and human health: What influences the adoption of adaptation programs in the United States public health system?." *Mitigation and Adaptation Strategies for Global Change*. Vol. 8, no. 16: 911-924.
- Doohan, D., **R.S. Wilson**, E. Canales, and J. Parker. 2010. "Investigating the human dimension of weed management: New tools of the trade." *Weed Science*, no. 58: 503-510.
- Wilson, R.S.** and J.L. Arvai. 2010. "Why less is more: Exploring affect-based value neglect." *Journal of Risk Research*. Vol. 4, no. 13: 399-409.
- Wilson, R.S.**, P.L. Winter, L.A. Maguire, T.J. Ascher. 2010. "Managing wildfire events: Risk-based decision making among a group of federal fire managers." *Risk Analysis*. Vol. 5, no. 31: 805-818.
- Cattaneo, A.A.*, **R.S. Wilson**, D. Doohan, and J.T. LeJeune. 2009. "Bovine veterinarians' knowledge, beliefs, and practices regarding antibiotic resistance on Ohio dairy farms." *Journal of Dairy Science*. Vol. 92: 3494-3502.
- Wilson, R.S.**, N. Hooker, M. Tucker, J. LeJeune, and D. Doohan. 2009. "Targeting the farmer decision making process: A pathway to increased adoption of integrated weed management." *Crop Protection*. Vol. 28: 756-764.
- Wilson, R.S.**, J. Parker, D. Kovacs, D. Doohan, and J. LeJeune. 2009. "Contamination prevention and response related to fresh and fresh-cut produce: An expert perspective on the farmer decision making process." *Food Protection Trends*. Vol. 29, no. 8: 488-492.
- Wilson, R.S.**, D.M. Hix, P.C. Goebel, and R.G. Corace III. 2009. "Identifying land manager objectives and alternatives for mixed-pine forest ecosystem management and restoration in eastern Upper

Michigan." *Ecological Restoration*. Vol. 27, no. 4: 407-416.

- Wilson, R.S.** and J.T. Bruskotter. 2009. "Assessing the impact of decision frame and existing attitudes on support for wolf restoration in the United States." *Human Dimensions of Wildlife*. Vol. 14, no. 5: 353-365.
- Gore, M.L., **R.S. Wilson**, W.F. Siemer, H. Wieczorek-Hudenko, C.E. Clarke, P.S. Hart, L.A. Maguire and B.A. Muter. 2009. "Application of risk concepts to wildlife management: Special issue introduction." *Human Dimensions of Wildlife*. Vol. 14, no. 5: 301-313.
- Wilson, R.S.**, M.A. Tucker, N.H. Hooker, J.T. LeJeune, and D. Doohan. 2008. "Perceptions and beliefs about weed management: Perspectives of Ohio grain and produce farmers." *Weed Technology*. Vol. 22: 339-350.
- Wilson, R.S.**, J.L. Arvai, and H.R. Arkes. 2008. "My loss is your loss...sometimes: Loss aversion and the effect of motivational biases." *Risk Analysis*. Vol. 28, no. 4: 929-938.
- Wilson, R.S.** 2008. "Balancing emotion and cognition: A case for decision aiding in conservation efforts." *Conservation Biology*. Vol. 22: 1452-1460.
- Wilson, R.S.** and J.L. Arvai. 2006. "When less is more: How affect influences preferences when comparing low and high-risk options." *Journal of Risk Research*. Vol. 9, no. 2: 165-178.
- Wilson, R.S.** and J.L. Arvai. 2006. "Evaluating the quality of structured environmental management decisions." *Environmental Science & Technology*. Vol. 40, no. 16: 4831-4837.

cj. Book Chapters

- H. Walpole* and **R.S. Wilson**. 2023. "Risk Communication" in *Human and Ecological Risk Assessment, Vol. 2: Theory and Practice*. Wiley Classics Library. Edited by D. Paustenbach. 2nd edition. 1592 pp.
- M. Doidge, E. Irwin, N. Sintov and R.S. Wilson. 2020. "Human Behavior and Adaptation". Pp. 101-128 in *The Food-Energy-Water Nexus*. AESS Interdisciplinary Environmental Studies and Sciences Series. Edited by P. Saundry and B. Ruddell. Cham, Switzerland: Springer.
- V. Campbell-Arvai, D. Bessette, **R.S. Wilson** and J. Arvai. 2018. Decision-making about the Environment. In *The Sage Handbook of Nature*, Volume 2. Edited by Terry Marsden. Thousand Oaks, CA: Sage.
- R.S. Wilson**, E. Toman and S. McCaffrey. 2017. "Wildfire communication and climate risk mitigation". In *Oxford Research Encyclopedia of Climate Science*. New York, NY: Oxford University Press. 31 p. <https://doi.org/10.1093/acrefore/9780190228620.013.570>
- Zwickle, A.* and **R.S. Wilson**. 2012. "Construing Risk." In *Risk Communication Research and Practice*. Edited by J. Arvai and L. Rivers. New York: Routledge.
- Singh A.*, **R.S. Wilson**, J. Bruskotter, J. Brooks, A. Zwickle, and E. Toman. 2012. "The human dimensions of environmental degradation and ecosystem services: Understanding and solving the commons dilemma." In *Carbon Sequestration and Ecosystem Services*. Edited by R. Lal. New York: Springer.
- J.T. Bruskotter, G.E. Hitzhusen, **Wilson, R.S.**, and A. Zwickle. 2012. "Understanding student environmental interests when designing multidisciplinary curriculum." In *Taking it to the next level: Strategies for adaptation across the sustainability curriculum*. Edited by L.F. Johnston. Winston-Salem: Wake Forest University.

ciii. Technical Reports and Extension Publications

- National Academies of Sciences, Engineering, and Medicine. 2023. *Integrating the Human Sciences to Scale Societal Responses to Environmental Change: Proceedings of a Workshop*. Washington, DC: The National Academies Press. <https://doi.org/10.17226/27129>.
- National Academies of Sciences, Engineering, and Medicine. 2022. *Engaging Socially Vulnerable Communities and Communicating About Climate Change–Related Risks and Hazards*. Washington, DC: The National Academies Press. <https://doi.org/10.17226/26734>.
- Epanchin-Niell, R., **R.S. Wilson** and E. Duffy. 2022. Private Land Management Decision Making. SESYNC Podcast and Transcript. <https://www.sesync.org/resources/audio-interview-private-land-management-decision-making>
- Ellis, A., C.D. Shaffer-Morrison, and **Wilson, R.S.** 2022. *Economic and Behavioral Drivers of Conservation and Wind Energy Development in the Great Lakes: Survey Report*. Columbus, OH: The Ohio State University, School of Environment & Natural Resources.
- Taber, S., Doidge, M., and **Wilson, R.S.** 2020. *Farmer Adaptation to Changes in Extreme Weather: Survey Report*. Columbus, OH: The Ohio State University, School of Environment & Natural Resources.
- Tellez, C. and **R.S. Wilson**. 2020. *Stakeholder assessment for a HABs early warning system*. Columbus, OH: The Ohio State University, School of Environment and Natural Resources.
- Tellez, C. and **R.S. Wilson**. 2019. *Researching the Effectiveness of Agricultural Programs: An analysis of conservation engagement in four Great Lakes watersheds*. Columbus, OH: The Ohio State University, School of Environment and Natural Resources.
- D. Wuebbles, B. Cardinale, K. Cherkauer, R. Davidson-Arnott, J. Hellmann, D. Infante, L. Johnson, R. de Loe, B. Lofgren, A. Packman, F. Seglenieks, A. Sharma, B. Sohngen, M. Tiboris, D. Vimont, R. Wilson, K. Kunkel, A. Ballinger. 2019. *An Assessment of the Impacts of Climate Change on the Great Lakes*. Chicago, IL: Environmental Law and Policy Center.
- Soldo, C., Doidge, M. and R.S. Wilson. 2019. *Using Constructed Wetlands to Address Water Quality Challenges: An Analysis of Farmer Willingness to Adopt Edge-of-Field Conservation Measures in the Western Lake Erie Basin*. Columbus, OH: The Ohio State University, School of Environment and Natural Resources.
- Beetstra, M., Tellez, C., and **Wilson, R.S.** 2018. *4R Nutrient Stewardship in the Western Lake Erie Basin Part II: A Panel Study*. Columbus, OH: The Ohio State University, School of Environment & Natural Resources.
- Tellez, C. and **R.S. Wilson**. 2018. *Researching the Effectiveness of Agricultural Programs: Evaluating Survey Data in the Maumee and Saginaw Watersheds*. Columbus, OH: The Ohio State University, School of Environment and Natural Resources.
- K. Fussell, G. Hesse, L. Johnson, K. King, G. LaBarge, J. Martin, J. Reutter, **R. Wilson**, and C. Winslow. 2017. *Summary of findings and strategies to move toward a 40% phosphorus reduction*. Columbus, OH: The Ohio State University.
- Wilson, R.S.**, Walpole, E., Carros, O.R., and Walpole, H. 2017. *Meeting in the Middle: Engaging the Next Wave of Cover Crop Adopters*. Columbus, OH: The Ohio State University, School of Environment and Natural Resources.
- Prokup, A.*, **Wilson, R.S.**, Zubko, C., Heeren, A, and Roe, B. 2017. *4R Nutrient Stewardship in the Western Lake Erie Basin*. Columbus, OH: The Ohio State University, School of Environment & Natural Resources.
- National Academies of Sciences, Engineering, and Medicine (NAS). 2016. “Characterizing Risk

in *Climate Change Assessments: Summary of A Workshop for the U.S. Global Change Research Program.*” [J.L. Arvai, K.L. Ebi, B. Fischhoff, P. Gleick, A. Hoffman, R.H. Moss, C. Tebaldi, C.P. Weaver, and **R.S. Wilson**, Planning Committee]. The National Academies Press, Washington, DC. doi: 10.17226/23569.

Burnett, E.A.* , **R. S. Wilson**, B. Roe, G. Howard, E. Irwin, W. Zhang, and J. Martin. 2015. *Farmers, phosphorus and water quality: Part II. A descriptive report of beliefs, attitudes and best management practices in the Maumee Watershed of the western Lake Erie Basin.* Columbus, OH: The Ohio State University, School of Environment & Natural Resources.

Wilson, R.S., L. Burnett, T. Ritter, B. Roe and G. Howard. 2013. *Farmers, phosphorus and water quality: A descriptive report of beliefs, attitudes and practices in the Maumee Watershed of northwest Ohio.* Columbus, OH: The Ohio State University, School of Environment & Natural Resources.

Zwickle, S.* , **R.S. Wilson**, P. Lillard, and D. Doohan. 2012. *Organic weed management in Ohio and Indiana: A report on the knowledge, perceptions, and experiences of farmers and experts.* Columbus, OH: The Ohio State University, School of Environment & Natural Resources.

Zwickle, A.* , Ascher, T., J. Bennett, J. Bruskotter, J. Ferry, S. Fluke, D. Gupta, J. Heywood, T. Koontz, L. Majidzadeh, A. Rhodebeck, T. Ritter, A. Singh, D. Singh, J. Sherry, K. Slagle, P. Thompson, E. Toman, R. Wilson, R. Zajac, and S. Zwickle. *Environment in the Curriculum: A 2010 Survey of OSU Students.* Columbus: The Ohio State University.

Wilson, R.S. and J.L. Arvai. 2011. *Structured decision making: Using decision research to improve stakeholder participation and results.* Edited by R. Cooper and J. Cone. Corvallis: Oregon Sea Grant. <http://seagrant.oregonstate.edu/sgpubs/onlinepubs.html>.

Wilson, R.S., P.L. Winter, L. Maguire, T. Ascher. 2010. *Responding to wildfire events: Influences in fire manager decision-making.* Tucson: Wildland Fire Lessons Learned Center. <http://www.wildfirelessons.net/Additional.aspx?Page=309>.

Winter, P.L. and **R.S. Wilson**. 2009. *Wildfire management and decision making.* no. 69. Riverside: USDA Forest Service Pacific Southwest Research Station. Report No. RWU-4902. http://www.fs.fed.us/psw/programs/recreation/update/u_nov2009.shtml#article1.

Rivers, L., **R.S. Wilson**, and J.L. Arvai. 2008. *More than just a message: Risk communication and the decision making process.* Edited by D.J. Chavez, J.D. Absher, and P.L. Winter. Albany: US Department of Agriculture Forest Service, Pacific Southwest Research Station. Report No. PSW-GTR-209.

Arvai, J., **R.S. Wilson**, L. Rivers, A. Froschauer. 2004. *Environmental risk communication: A review and annotated bibliography.* Albany: USDA Forest Service and Decision Research.

civ. Publications Under Review or In Prep (*indicates student or post-doc as lead author)

Shaffer-Morrison, C.D.* and **R.S. Wilson**. In revision. Understanding public perceptions toward local water quality in the Great Lakes region. *Journal of Great Lakes Research.*

Ashenfarb, M.* , C.D. Shaffer-Morrison*, **R.S. Wilson**, S. Marquardt-Pyatt, and R. Epanchin-Niell. In review. Social targeting conservation subsidies in the western Lake Erie basin. *Journal of Environmental Management.*

Brooker, M.R., J. D’Ambrosio, M. Kalcic, K.W.King, G. LaBarge, B. Roe, N.D. Stoltzfus, S. Francis, R. Crow, R.S. Wilson, R.J. Winston, J.F. Martin. In review. Quantifying phosphorus loads from legacy-phosphorus fields. *Journal of Environmental Quality.*

Wood, S., M. Mende, M.L. Scott, C.I. Tsai, L. Lee, J. Lei, **R.S. Wilson**, O. Jensen, C. Lo, R. Plumbly-Clegg. In review. Translating risk research for more effective risk communication practice: The seven I's framework and LUCCR app. *Journal of Marketing*.

Shaffer-Morrison, C.D.* and **R.S. Wilson**. In prep. Climate stress among the most vulnerable farmers: Harnessing a future time perspective as a resource for greater climate adaptation.

Wilson, R.S., S. Wood, M. Mende, M.L. Scott, C.I. Tsai, L. Lee, J. Lei, , O. Jensen, C. Lo, R. Plumbly-Clegg. In prep. A practitioner typology for targeted risk communication. *Proceedings of the National Academy of Sciences*.

Karatayev, V.A., **R.S. Wilson**, D.G. Webster, M. Axelrod, C.T. Bauch, and M. Anand. In prep. Acclimating to degraded environments: The social rationale for swift action on restoration. <https://www.biorxiv.org/content/10.1101/2022.09.27.509807v1.full.pdf>

c. Scholarly Presentations (last 5 years)

R.S. Wilson. 2024. "Climate change in Ohio: What should you do?" Invited speaker at Science Sundays. Columbus, OH.

R.S. Wilson. 2024. "Integrating the social and behavioral sciences to inform climate action". California Office of Environmental Health Hazard Assessment (OEHHA) Indicators of Climate Change Symposium: Bridging Science and Action.

R.S. Wilson. 2023. "Community based social marketing and best practices for behavior change". Guest Lecture at Capital University. Columbus, OH.

R.S. Wilson. 2023. "Does risk analysis have a future: A transatlantic perspective." Invited panelist at the Society for Risk Analysis Annual Meeting. Washington, D.C.

R.S. Wilson. 2023. "Risk science and politics: What is and should be the relationship?" Invited panelist at the Society for Risk Analysis Annual Meeting. Washington, D.C.

R.S. Wilson. 2023. "A yardstick for danger: Developing a flexible and sensitive measure of risk perception." Invited participant at the 12th Triennial Invitational Choice Symposium. Fontainebleau, France.

R.S. Wilson. 2023. "Does risk analysis have a future in Europe?" Invited panelist at the Society for Risk Analysis Europe Meeting. Lund, Sweden.

R.S. Wilson. 2023. "A yardstick for danger: Developing a flexible and sensitive measure of risk perception." Presented at the Society for Risk Analysis Europe Meeting. Lund, Sweden.

R.S. Wilson. 2023. "Barriers to implementing conservation in agriculture." Invited Alan R. Bender Memorial Lecturer at the South Dakota Student Water Conference. Brookings, South Dakota.

R.S. Wilson. 2023. "Understanding farmer adaptation to guide management in changing climate." Invited speaker at the Eastern South Dakota Water Conference. Brookings, South Dakota.

R.S. Wilson. 2023. "Climate change in Ohio: What should you do?" Invited speaker at the Association of Ohio Health Commissioners Annual Meeting. Dublin, OH.

R.S. Wilson. 2023. "NASEM Workshop on Integrating the Human Sciences to Scale Societal Responses to Environmental Change." Invited speaker and workshop chair. Virtual.

R.S. Wilson. 2023. "NSF grant applications: Lessons from program officers and principal investigators". Invited panelist at the Midwest American Psychological Association Annual Meeting. Chicago, IL.

R.S. Wilson. 2023. Integrating heterogeneity in decision making into simulation models". Invited presenter at the Decisions and Climate Conference. The Ohio State University, Columbus, OH.

- R.S. Wilson and C. Dale Shaffer-Morrison. 2023. "Barriers to Implementing Conservation in Agriculture". Invited presenter at The Nature Conservancy farmer outreach event. Defiance, OH.
- R.S. Wilson and C. Dale Shaffer-Morrison. 2023. "Motivational Barriers to Conservation Implementation". Invited presenter at the Conservation Drainage Network Annual Meeting. Easton, MD.
- R.S. Wilson 2022. "Improving EPA's climate risk communication: Effective goals, environmental justice strategies, evaluating success, knowledge gaps and agency opportunities". Invited panelist. Virtual.
- R.S. Wilson. 2022. "Promoting private lands conservation and protecting water quality". Invited speaker at the Bowling Green Kiwanis Meeting. Virtual.
- R.S. Wilson. 2022. "The role of risk beliefs versus identity in climate adaptation decisions". Presented at the Society for Risk Analysis Annual Meeting. Tampa, FL.
- R.S. Wilson. 2022. "Preparing for a Hotter World". Invited speaker at the American Association for University Women (AAUW) Meeting. Westerville, OH.
- R.S. Wilson. 2022. "Making plans in "unprecedented" times". Invited panelist at the Mid-Ohio Regional Planning Commission Summit on Sustainability. Columbus, OH.
- R.S. Wilson. 2022. "Reframing climate assessment around risk." Invited panelist as the NASEM Hauser Policy Webinar entitled "How should society assess risks from climate change?". Virtual.
- R.S. Wilson. 2022. "Does risk analysis have a future in Europe?". Invited panelist at the Society for Risk Analysis Europe Annual Meeting. Virtual.
- R.S. Wilson. 2022. "Farmer motivation and heterogeneity in behavior." Presented at the C-Farm Event. Columbus, OH.
- R.S. Wilson and C. Dale Shaffer-Morrison. 2022. "State of the Science: Barriers to Conservation". Presented at the Great Lakes Commission's Sediment and Nutrient Reduction Program workshop titled "Nutrient Reduction for the Great Lakes: Dialogues on Solutions". Virtual.
- R.S. Wilson and C. Dale Shaffer-Morrison. 2022. "Lessons from behavioral and team science in the Great Lakes". Invited plenary speaker at the Delta Stewardship Council Advancing Interdisciplinary Training Workshop. Virtual.
- R.S. Wilson. 2022. "Conservation Targeting for constructed wetlands". Presented as part of an invited symposium titled "Social and Behavioral Targeting of Conservation Programs for Increased Effectiveness" at the Soil and Water Conservation Society Annual Conference. Denver, CO.
- R.S. Wilson. 2022. "Preparing for a Hotter World". Invited plenary speaker at the American Psychological Association Division 34 Annual Meeting. Virtual Event.
- R.S. Wilson. 2022. "Speed Science Talk". Invited faculty speaker at the Decision Sciences Collaborative Symposium. Columbus, OH.
- R.S. Wilson. 2022. "Climate and Resilience in Midwestern Food-Energy-Water Systems". Panelist at the Global Council for Science and the Environment Annual Conference. Virtual Meeting.
- R.S. Wilson. 2021. "Understanding climate adaptation and mitigation decisions in large-scale agriculture". Invited speaker at the The Ohio State University Department of Marketing Brownbag. Columbus, OH.
- R.S. Wilson, A. Wilson and M. Doidge. 2021. "Ohio State studies the climate and agriculture". Invited speaker on the 'Our Ohio Weekly' [Podcast](#). Virtual Event.
- R.S. Wilson. 2021. Invited panelist at the Resilient National Partnership Network "Resilient Decision Making Panel". Virtual Event.

- C. Rapp, R.S. Wilson, E. Toman and W.M. Jolly. 2021. "Assessing the role of short-term weather forecasts in fire manager tactical decision making". Invited speaker in the symposium "Managing and reducing the risk of wildfire through response and fuel treatment" at the Society for Risk Analysis Annual Meeting. Virtual Event.
- R.S. Wilson, H. Walpole and C. Tellez. 2021. "Farmer climate adaptation: Farming harder, farming different and stopping altogether". Speaker at the Soil and Water Conservation Society Annual Conference. Virtual Event.
- R.S. Wilson. 2021. "Understanding climate adaptation decisions in large-scale agriculture". Invited seminar speaker at the Stanford University Series "Approaching sustainability: Conversations with leading scholars". Virtual Event.
- R.S. Wilson. 2021. "Land-use behavior and keeping the ecological carbon isolated". Invited panelist at The Ohio State University Sustainability Institute Energy Symposium "What does it mean to go negative?". Virtual Event.
- R.S. Wilson and A. Wilson. 2021. "Agroecosystem resilience: Regional integrated modeling of farmer adaptations to guide management in a changing climate". Invited speaker at the NC3 Webinar Series. Virtual Event.
- R.S. Wilson. 2021. "Understanding climate adaptation and mitigation decisions in large-scale agriculture". Invited speaker at The Ohio State University Department of Marketing Brownbag. Virtual Event.
- R.S. Wilson and M. Doidge. 2021. "Understanding climate adaptation decisions in the eastern Corn Belt". Invited speaker at Environmental Science Graduate Program Seminar. Virtual Event.
- R.S. Wilson. 2021. "Preventing and mitigating emergencies and current threats: A decisions science perspective." Invited speaker at the 2021 Inaugural Emergency Preparedness, Response and Recovery Virtual Conference. Virtual Event.
- R.S. Wilson. 2021. "Adapting to climate-exacerbated hazards in Ohio and beyond". Invited speaker at the Church of the Messiah Forum. Virtual Event.
- R.S. Wilson. 2020. "Conversations on the Politics and Science of Climate Change in the Buckeye State". Invited panelist at the Ohio State University Environmental Professionals Network (EPN). Virtual Event.
- R.S. Wilson. 2020. "The Science of Climate Communication: How to reach conservative and moderates". Invited panelist at the Midwest Climate Summit. Virtual Event.
- R.S. Wilson. 2020. "Achieving nutrient reduction targets by building farmer confidence in conservation". Invited speaker at the Agronomy Society of America International Annual Meeting, Megaposium, Virtual.
- R.S. Wilson. 2020. "Climate change in central Ohio: What can you do?" Invited speaker at the Church of the Messiah, Columbus, OH.
- R.S. Wilson. 2020. "Uncovering barriers to increased conservation in agriculture". Invited speaker at the Corn-Soybean Day, Archbold, OH.
- R.S. Wilson. 2020. "Communicating climate change and promoting adaptation in the Great Lakes". Invited speaker at the Environmental Professionals Network Exploring the Interactions between Climate, Water and Communication, Virtual.
- R.S. Wilson. 2020. "Understanding climate adaptation decisions in the eastern Corn Belt". Speaker at the Ohio Farm Science Review, Virtual.
- R.S. Wilson. 2020. "Understanding climate adaptation decisions in the eastern Corn Belt". Invited seminar speaker in The Ohio State University Department of Geography, Virtual.

- R.S. Wilson. 2020. "Understanding climate adaptation decisions in the eastern Corn Belt". Speaker at the Soil and Water Conservation Society Annual Meeting, Virtual.
- R.S. Wilson. 2020. "Individual decision making for compound hazards". Invited speaker at the EDEN, eXtension and Southern University webinar on "Hurricane Preparedness in the Wake of COVID-19", Virtual.
- R.S. Wilson. 2020. "Individual decision making for compound hazards". Invited speaker at the National Academies webinar on "Compound Hazards", Virtual.
- R.S. Wilson. 2020. "Risk Analysis". Invited panelist at the USGS Risk Community of Practice Webinar, Virtual.
- R.S. Wilson. 2019. "The role of messaging and risk tolerance in promoting adaptation". Presented at the Society for Risk Analysis Annual Meeting, Washington, DC.
- R.S. Wilson. 2019. "Taking 4R to the Farm Through Research: A social science perspective". Invited speaker at the 4R Summit, Cleveland, OH.
- R.S. Wilson. 2019. "Farmer Conservation Adoption". Invited speaker at the County Commissioners Water Quality Taskforce Meeting, Columbus, OH.
- R.S. Wilson. 2019. "Farmer conservation adoption". Invited testimony at the Ohio House of Representatives Finance Subcommittee on Agriculture, Development and Natural Resources, Columbus, OH.
- R.S. Wilson. 2019. "The role of decision science in effective policy making". Invited plenary speaker at the INFORMS Advances in Decision Analysis Meeting, Milan, Italy.
- R.S. Wilson. 2019. "The role of human behavior in solving environmental problems". Invited speaker at the Great Lakes Protection Fund webinar on the Science of Behavior Change, Evanston, IL.
- R.S. Wilson. 2019. "Takeaways from farmer survey research in the western Lake Erie basin (WLEB)". Invited speaker at the Governor's Residence, Bexley, OH.
- R.S. Wilson. 2019. "The role of science in effective policy making". Invited speaker at Quantitative Microbial Risk Assessment (QMRA) III Training, Columbus, OH.
- R.S. Wilson. 2019. "Designing programs and policies to increase BMP adoption rates". Invited speaker at the Understanding Algal Blooms State of the Science Conference, Toledo, OH.
- R.S. Wilson. 2019. "Results of farmer research on BMP adoption: Farmer trends and likelihood of adoption". Invited speaker at the IJNR Journalist's Tour, Findlay, OH.
- R.S. Wilson. 2019. "Climate adaptation (and mitigation) at the household level: A role for social science". Invited speaker at the National Academies Board on Environmental Change and Society Webinar (New Horizons for Environmental Change: Toward Effective Solutions). Washington, DC.
- R.S. Wilson. 2019. "Three Fixes for Climate Adaptation". Presented at the Environmental Law and Policy Center Great Lakes Science Policy Conference. Chicago, IL.
- R.S. Wilson. 2019. "Farmer willingness to implement conservation practices and critical barriers". Presented at the Great Lakes Fisheries Commission Annual Meeting. Detroit, MI.
- R.S. Wilson. 2019. "Farmer willingness to implement conservation practices and critical barriers". Presented at the Great Lakes to Gulf Leadership Summit. Long Beach, MS.
- R.S. Wilson. 2019. "Human behavior: Mitigating and adapting to climate change". Presented at the Byrd Climate Symposium, Columbus, OH.

d. Grants

- 2024 – 2027. *Pending*. Land management to conserve biodiversity and promote human well-being, (\$398,700). National Science Foundation. Co-investigator.
- 2024 – 2026. *Pending*. Accelerating environmental actions on farms in New Zealand and the US: Sharing behavioral insights. Catalyst Seed Grant. Collaborator.
- 2024 – 2031. *Pending*. Center: PIPP Phase II: Theme 1: Center for Forest Invasion Resistance (C-FIR). NSF CBI – PIPP – Pandemic Prevention. (\$18,149,903). Collaborator.
- 2024 - 2028. *Pending*. Sustainable agroecosystem scenarios to conserve biodiversity and promote human well-being. USDA. (\$749,834). Co-investigator.
- 2023 - 2025. *Funded*. Increasing motivation and promoting persistence in farmer conservation. Foundation for Food and Agriculture Research. (~\$246,923). Principal Investigator.
- 2022 – 2027. *Not Funded*. UNCLOG: Universal Crop LOGistics System for Sustainable Feed, Fiber and Feedstock Production. USDA AFRI Sustainable Agricultural Systems. (\$9,999,239). Co-investigator.
- 2024 – 2025. *Not Funded*. Planning: CRISES: Behavioral science solutions for climate resilience. National Science Foundation. (\$100,000). Co-investigator.
- 2023 - 2028. *Not Funded*. Ohio River Valley Center of Excellence in Vector Borne Disease (ORV COE). Centers for Disease Control and Prevention. (\$1,722,919). Co-investigator.
- 2022 - 2024. *Not Funded*. An Integrated Agricultural Land-Soil Carbon-Economic Model of Carbon-Equivalent Abatement in the Great Lakes Midwest Region of the United States. USDA Economic Research Service. (\$524,623.00). Co-investigator.
- 2022 - 2023. *Not Funded*. An agent-based model of agricultural carbon-equivalent abatement in the Great Lakes region of the United States. Environmental Defense Fund. (\$299,636.00). Co-investigator.
- 2022 – 2027. *Not Funded*. Ohio River Valley Center of Excellence in Vector Borne Disease (ORV COE). Centers for Disease Control and Prevention. (~\$7,000,000). Co-investigator.
- 2021 – 2026. *Not Funded*. Large-Scale CoPe: Water quality, coastal resilience and equity in the Great Lakes: Studying community action, lake ecosystems, and society (SCALES). National Science Foundation (\$19,980,435). Co-Investigator.
- 2022 - 2024. *Not Funded*. Overcoming barriers for agricultural best management practice adoption using targeted water quality monitoring. Ohio Department of Higher Education Harmful Algal Bloom Research Initiative (HABRI). (\$169,095). Co-investigator.
- 2022 – 2026. *Funded*. NRCS Regional Conservation Partnership Program (RCP) alternative funding arrangement. Pilot watershed project. Natural Resources Conservation Service. (\$6,839,466). Co-investigator.
- 2022 - 2026. *Funded*. NSF DISES: Coproducing Actionable Science to Understand, Mitigate, and Adapt to Cyanobacterial Harmful Algal Blooms (CHABS). National Science Foundation (\$196,846 of 1,599,997). Co-Principal Investigator.
- 2021 – 2023. *Not Funded*. Automated Drainage Water Management: Innovation to a Proven Conservation Measure to Improve Adoption, Water Quality, and Farm Economic Viability. (\$490,998). Co-investigator.
- 2020 - 2021. *Funded*. Doctoral Dissertation Research in DRMS: Evaluating the Effects of Financial and Temporal Scarcity on Farmer Decisions to Engage in Conservation. National Science Foundation (\$29,820). Principal Investigator (with Maggie Beetstra, PhD Candidate).
- 2020 – 2023. *Funded*. Accelerating adoption of nutrient management through farmer-led outreach and

- education. EPA Great Lakes Restoration Initiative (through The Nature Conservancy). (\$107,525 of \$1 million proposal). Collaborator.
2020. *Funded*. 4R NSP Certification Evaluation. The Nature Conservancy. (\$22,713). Principal Investigator.
- 2018 – 2020. *Funded*. Defining a HABs early warning system. Great Lakes Observing System. (\$31,255). Principal Investigator.
2019. *Funded*. WLEB Wetland Survey. The Nature Conservancy. (\$29,555). Principal Investigator.
- 2019-2020. *Funded*. Advancing behavioral modeling in integrated socio-environmental models. Socio-Environmental Synthesis Center. Co-Principal investigator.
- 2018-2022. *Funded*. Developing public-private partnerships to target legacy phosphorus fields to increase water quality and availability. National Institutes of Food and Agriculture. (\$5,143,268). Co-Principal Investigator.
- 2018-2020. *Funded*. Building a sustainable and resilient agroecosystem through an understanding of climate and farmer behavioral variability. National Institutes of Food and Agriculture. (\$1,199,396). Principal Investigator.
- 2017-2018. *Not Funded*. Investigating and quantifying household food-energy-water footprints (FEWprints). SRE Seed grant program. (\$50,000). Co-Investigator.
- 2017-2020. *Funded*. Researching Effectiveness of Agricultural Programs (REAP). US EPA Great Lakes Restoration Initiative. (\$750,000). Co-Principal investigator.
- 2017-2020. *Funded*. INFEWS: Integrated Modeling of Regional Food, Energy and Water Systems. NSF FEWS. (\$2,995,000). Co-Principal investigator.
- 2017-2019. *Funded*. SESYNC Pursuits Proposal: Risk Perception in Provision of Aquatic Ecosystem Services. Socio-Ecological Synthesis Center (SESYNC) Pursuits Program. Co-Principal investigator.
- 2017- 2022. Reducing Embodied-energy and Decreasing Emissions (REMADE) Institute. Department of Energy National Network for Manufacturing Innovation. (\$70,000,000). Collaborator.
- 2016-2017. Energy transitions and bridges: Does what we emphasize take us where we want to be? Sustainable and Resilient Economy (SRE) Seed Grant Program. (\$42,000). Co-investigator.
- 2016-2019. Meeting the Middle: Developing and Implementing Outreach Strategies to Engage Middle and Late Adopter Farmers on Cover Crops. National Wildlife Federation (via Great Lakes Protection Fund). (\$59,983). Research Contract.
- 2016-2018. Quantifying and predicting the effects of ecological weed management strategies on organic agroecosystems to inform farmer decision making. National Institute of Food & Agriculture. (\$498,658). Principal investigator.
- 2016-2018. Wildland fire managers' use of fire weather data in strategic and tactical decision making across the United States: a combined fire modeling and social science-based analysis. The Joint Fire Sciences Program. (\$398,984). Co-investigator.
- 2014-2019. Evaluating the 4R nutrient stewardship concept and certification program assessment in the Western Lake Erie Basin. International Plant Nutrient Institute. (\$1,497,744). Co-investigator.
- 2014-2015. Cost benefit analysis of the 4R nutrient stewardship certification program in the Western Lake Erie Basin. The Nature Conservancy. (\$100,000). Co-investigator.
- 2011 - 2016. CNH: Co evolution of upstream human behavior and downstream ecosystem services in a changing climate. National Science Foundation Coupled Human and Natural Systems. (\$1,499,995.00) Co-Principal Investigator.

- 2014 -2015. Integrating One Health and Coupled Systems approaches to target rabies risk mitigation efforts among high-risk youth populations in northern Gondar, Ethiopia. The Behavioral Decision Making Initiative. (\$1,900). Co-investigator (with PhD student).
2013. OSU-Ethiopia Outreach and Needs Assessment on Rabies Elimination: 'One Health' Prototype for Zoonotic Diseases Control. The Ohio State University Outreach Engagement Grant. (\$30,000.00). Collaborator.
- 2008 - 2013. Designing effective land management policies for the 21st century Ohio River Basin: Managing the carbon and nutrient cycles to maintain and restore water quantity and quality. The Ohio State University Climate Water and Carbon Targeted Investment in Excellence. (\$1,299,911.00) Principal Investigator.
- 2011 - 2013. Understanding the role of risk perception and risk attitudes in shaping public response during a wildfire. USDA Forest Service. (\$25,657.00) Principal Investigator.
- 2012 - 2013. Doctoral Dissertation Research in DRMS: Integrating construal level theory into risk communication. National Science Foundation Decision, Risk and Management Science. (\$11,108.00) Principal Investigator.
- 2008 - 2012. Designing watershed-based education and extension efforts through a mental models research approach. USDA Cooperative State Research Education & Extension Service National Integrated Water Quality Program. (\$390,000.00) Principal Investigator.
- 2008 - 2009. Assessing the impact of positive and negative outcomes on the acceptability of wildfire management strategies among USFS personnel. USDA Forest Service. (\$39,377.00) Principal Investigator.
- 2011 - 2014. Restoring landscapes in the context of environmental change: a mental models analysis. USDA Forest Service. (\$92,837.00) Co-Principal Investigator.
- 2009 - 2013. Mental models and participatory research to redesign extension programming for organic weed management. US Department of Agriculture Cooperative State Research, Education and Extension Service Organic Agriculture Research and Extension Initiative. (\$2,252,008.00) Co-Principal Investigator.
- 2010 - 2012. Fire-science network and delivery system for fire-dependent ecosystems of the northern Lake States. US Fish and Wildlife Service Joint Fire Sciences Program. (\$397,827.00) Co-Principal Investigator.
- 2007 - 2011. Minimizing microbial food safety hazards of fresh and fresh-cut fruits and vegetables. US Department of Agriculture Cooperative State Research, Education and Extension Service National Integrated Food Safety Initiative. (\$2,500,000.00) Co-Principal Investigator.
- 2009 - 2011. Fuel treatments in mixed-pine forests in the Great Lakes Region: A comprehensive guide to planning and implementation. US Fish and Wildlife Service Joint Fire Sciences Program. (\$151,363.00) Co-Principal Investigator.
- 2010 - 2010. Building environmental public health literacy with an urban community: A pilot study. OSU Center for Clinical and Translational Science Community Engagement in Health-related Research Program. (\$29,994.00) Co-Principal Investigator.
- 2008 - 2010. Engaging the public health system in reducing the societal carbon footprint. The Ohio State University Climate Water Carbon and Public Health Preparedness and Infectious Disease Targeted Investments in Excellence Programs. (\$100,000.00) Co-Principal Investigator.
- 2009 - 2010. Developing a fire science network and delivery system for the northern Lake States. US Fish and Wildlife Service Joint Fire Sciences Program. (\$20,079.00) Co-Principal Investigator.
- 2005 - 2008. Restoration-based fuel reduction recommendations for mixed-pine forests of upper

Michigan. US Fish and Wildlife Service Joint Fire Sciences Program. (\$299,411.00) Co-Principal Investigator.

2005 - 2006. Doctoral Dissertation Research in Decision Risk and Management Science: Revisiting prospect theory under conditions of chronic loss and the attribution of value. National Science Foundation. (\$19,000.00) Co-investigator.

e. Synergistic Activities

i. **Reviewer:** Reviewer for both disciplinary (e.g., Journal of Risk Research; Risk Analysis; Environment & Behavior; Environmental Communication; Science Communication; Society and Natural Resources; Journal of Environmental Psychology) and interdisciplinary journal outlets (e.g., Proceedings of the National Academy of Sciences; Environmental Research Letters; Plos One; Water Resources Research; Climatic Change; Climate Policy), as well as competitive grants programs (e.g., National Science Foundation, Environmental Protection Agency). Served a three-year term on the NSF Decision Risk and Management Science Review Panel (2020 to 2022); Served as Guest Editor for special issues in Decision Analysis (Environmental Sustainability) and Frontiers in Climate (Climate Decision Making by Forest, Farm and Range Landowners).

ii. **Member:** Environment, Systems & Decisions Editorial Board; Risk Analysis Editorial Board; Journal of Risk Research Editorial Board; Soil and Water Conservation Society Editorial Board; Journal of Environmental Quality Editorial Board; US EPA Board of Scientific Counselors Social and Community Science Subcommittee (Co-Chair, 2022-2025); Society for Risk Analysis (2002 to present; past Councilor, past President 2020 to 2023); Soil and Water Conservation Society; Foundation for Food and Agricultural Research (FFAR) Workshop on “Advancing Outreach Effectiveness to Improve Conservation Practice Adoption” Steering Committee (2021 to 2022); National Academies’ (NASEM) Environmental Health Matters Initiative “Reducing the Health Impacts of the Nitrogen Problem” Workshop Committee (2021 to 2022); National Academies’ (NASEM) “Integrating the Human Sciences to Scale Societal Responses to Environmental Change” Workshop Committee Chair (2022 to 2023); National Academies Resilient America Roundtable (2020-2022); National Academies Board on Environmental Change and Society (2016-2021); International Joint Commission Great Lakes Water Quality Board (2013-2015); US EPA Chartered Science Advisory Board (2015-2017); National Socio-Ecological Synthesis Center Projects (Foundations Group on Ecological vs. Political Time Scales for Expected Outcomes to Restoration; Thematic Pursuit on Advancing Behavioral Models of Private Land Stewardship to Improve Environmental Policy; Thematic Pursuit on Risk Perception in Provision of Aquatic Ecosystem Services; Ventures Group on ESA Decision Making).

iii. **University and Community Service:**

Unit: Acting Associate Director (2022 – present). Research Committee Chair (2023 – present). Former member of the Research Committee; Fellowship Committee (past Chair); Director Search Committee; Research, Promotion & Tenure Oversight Committee; and Academic Affairs Committee (past Chair). Former Environmental and Social Sustainability (ESS) Lab Director.

College: Former Strategic Alignment for Research Success (STARS) Mentor (2022). Former member of the FAES Environmental Fellowship Selection Committee and the Faculty Advisory Council (former Chair).

University: Research Integrity Standing Committee (2023 – present); Member of the Sustainability Institute Faculty Advisory Board (2015-2023, current mentor to 3 faculty); President and Provost’s

Council on Sustainability (2018 to 2023); Postdoctoral Advisory Council (2021 to 2023); and Climate Change Curriculum Steering Committee (2022 to 2023).

Profession: Chair of the Governance Committee of the Society for Risk Analysis. Past President of the Society for Risk Analysis (2020 – 2022). Past Chair of the Society for Risk Analysis Risk Communication Specialty Group.

- iv. **Undergraduate and Graduate Education:** Instructor of The Psychology of Environmental Problems (ENR 3400); Communicating Environmental Risk (ENR 7400); and Environment, Risk and Decision Making (ENR 7150). Advisor for 10-15 Environmental Policy and Decision Making undergraduate majors per year; and 15 MS students, 7 PhD students, 6 Post-doctoral Researchers, and 9 Honors students to date. Member of dozens of graduate research committees.
- v. **Awards and Recognition:** Best Paper honorable mention for the Journal of Soil and Water Conservation (2023). Top Downloaded Paper in Risk Analysis (2020). CFAES Multi-disciplinary Team Award (2019). President and Provost's Leadership Institute (2019-2020). Society for Risk Analysis Chauncey Starr Young Risk Analyst Award (2017). Union of Concerned Scientists Science Defender (2017). CFAES Leadership Program (2017). Award for Extraordinary Efforts in Mentoring, 26th Annual Faculty and Staff Recognition Reception for Mortar Board Senior Honor Society and Sphinx Senior Class Honorary (2015). Best Reviewer Award, Risk Analysis Journal, Society for Risk Analysis (2015). OARDC Multi-disciplinary Team Research Award, Ohio Agricultural Research and Development Center, The Ohio State University (2013).

f.i. Post-doctoral Advising

2021 – 2023. Carrie Shaffer-Morrison. Current position: Lecturer University of Essex.

2019 – 2021. Hugh Walpole. Current position: Associate Program Officer National Academies of Science, Engineering and Medicine; Board on Atmospheric Sciences and Climate.

2018 – 2019. Mary Doidge. Current position: Assistant Professor at McGill University, Department of Natural Resources Sciences.

2018 – 2019. Atar Herziger (SI Behavioral Post-doc). Current position: Assistant Professor at Technion University, Department of Industrial Engineering and Management.

2016 – 2017. Douglas Bessette. Current position: Associate Professor at Michigan State University, Department of Community Sustainability.

2008 – 2011. Deborah Hersha. Current position: Instructor at Spring Arbor University and Missional University.

f.ii. Doctoral Advising

2021 – present. Naseem Dillman-Hasso. Behavioral persistence.

2017– 2022. Claire Rapp. Wildfire decision making.

2017 – 2020. Maggie Beetstra. Current Position: Knauss Fellow National Oceanic and Atmospheric Administration Office of Education ([Policy Briefs](#), [Research Brief](#), and [Podcast](#))

2017 – 2019. Emily Walpole. Current Position: Research Social Scientist National Institute of Standards and Technology.

2016 – 2019. Hugh Walpole. Current Position: Postdoctoral Researcher, National Center for Atmospheric Research.

2011 – 2016. Kristina Slagle. Current Position: Research Associate, The Ohio State University.
2009 – 2014. Adam Zwickle. Current Position: Associate Professor, Michigan State University
Department of Community Sustainability.

f.iii. Masters Advising

2023 – present. Rachel Henry (MS). Carnivore conservation and hazard acceptance.
2022 – present. Azmiri Jalil (MS). Effective of peer-to-peer learning networks for farmer engagement in conservation.
2021 – 2023. Gillian Chesnut (MS). The role of industrialization on conservation in Midwest US agriculture.
2019 – 2021. Cole Soldo (MS). Constructed wetland adoption in agriculture.
2019 – 2021. Shelby Taber (MS). Water quality perception accuracy.
2018 – 2020. Elizabeth Schwab (MS ESGP Co-advised with Dr. Margaret Kalcic). Maumee river watershed farmers' perceptions of nutrient loss risk. Current position: PhD student.
2014 – 2016. Hugh Walpole (MS). Why stay? Why go? An examination of attitudes towards risk in wildfire evacuation. Current position: Post-doctoral researcher.
2014 – 2015. Brooke Roman (MENR). Campus sustainability behavior.
2012 – 2014. Elizabeth Burnett (MS). The influence of farmer stress and hardiness on adoption of best management practices in the Maumee watershed. Current position: Fiction writer.
2010 – 2012. Tara Ritter (MS). Developing a model of farmer nutrient management behavior. Current position: Climate and agriculture specialist at the Institute for Agriculture and Trade Policy.
2010 – 2011. Sarah Zwickle (MS). Understanding weeds and organic weed management: A mental models approach. Current position: Science writer.
2010 – 2011. Gina Hnytka (MENR). Social risk perceptions, attitudes, and farmer integrated weed management decisions: An analysis. Current position: Sustainability Institute staff.
2009 – 2011. Josh Ferry (MS). Phosphorus management in the agroecosystem: A mental models analysis of knowledge and perceived risk. Current Position: Environmental Scientist 1/Risk Assessor for Arcadis U.S., Inc.
2008 – 2010. Timothy Ascher (MS). Factors influencing support for prescribed burning and mechanical thinning among wildland-urban interface residents in the Lake Tahoe Basin. Current Position: Owner of small business and arborist in Columbus, OH.
2008 – 2010. Kristina Slagle (MS). Hispanics and parks: Managing for human diversity. Current Position: Post-doctoral researcher and OSU ESS Lab Manager.

f.iv. Honors Advising

2021 – 2022. Aurora Ellis (Research with Distinction).
2017 – 2020. Callia Tellez (Research with Distinction, Udall Scholar). Overcoming barriers to government program participation for interested farmers.
2017 – 2018. Emma Tippett (Research with Distinction). Behavioral spillover in health and environmental contexts.
2015 – 2018. Olivia Carros. Promoting cover crop adoption to improve water quality in agricultural

- landscapes. Recipient of Honors Proposal Scholarship & Honors and Scholars Enrichment Grant.
- 2013 – 2015. Katherine Connolly. Modeling climate mitigation behavior. Recipient of Honors Proposal Scholarship.
- 2013 – 2015. Miranda McClendon. Climate change communication.
- 2013 – 2014. Karam Sheban. Understanding environmental behaviors: A modification of value-belief-norm theory applied to nutrient management decisions in the Maumee watershed. Recipient of Honors Proposal Scholarship.
- 2010 – 2012. Katie Waller. Understanding nursing directors' attitudes, beliefs and knowledge about climate change and predicted human health impacts.
- 2008 – 2010. Sana Syal, The role of public health agencies in addressing climate change as a human health concern.