

ROBERT B. RICHARDSON

3523 13th Street NW Unit 1
Washington, DC 20010-2138 USA

Telephone: +1 (517) 648-8441
Electronic mail: rbr@msu.edu

EDUCATION

Ph.D., Agricultural and Resource Economics, Colorado State University <i>Fields of specialization: Environmental and Resource Economics; International Development</i>	2002
M.B.A., Finance, New York University, Stern School of Business	1995
B.S., Management, Tulane University, A.B. Freeman School of Business	1989

ACADEMIC AND PROFESSIONAL EXPERIENCE

Current Appointment

Executive Office of the President	Washington, District of Columbia, USA
Economist, Office of Management and Budget, Environment Branch	2023 – present

Previous Appointments

U.S. Department of the Interior	Washington, District of Columbia, USA
Chief Economist, Office of the Secretary	2022 – 2023

Michigan State University	East Lansing, Michigan, USA
College of Agriculture and Natural Resources	
Professor Emeritus	2024 – present
Professor, Department of Community Sustainability	2019 – 2024
Associate Chairperson, Department of Community Sustainability	2018 – 2022
Associate Professor	2013 – 2019
Assistant Professor	2007 – 2013

Galen University	San Ignacio, Belize
Assistant Professor, Economics	2005 – 2006

Centre for Rainforest Studies, School for Field Studies	Yungaburra, Queensland, Australia
Lecturer, Environmental Economics and Policy	2003 – 2004

University of Vermont, School of Natural Resources	Burlington, Vermont, USA
Extension Assistant Professor	2002 – 2003

Colorado State University	Fort Collins, Colorado, USA
Graduate Assistant, Department of Agricultural and Resource Economics	1999 – 2002

RESTORE: The North Woods	Concord, Massachusetts, USA
Program Coordinator	1996 – 1998

A.T. Kearney	Washington, DC and New York, NY, USA
Senior Consultant	1991 – 1995

Chemical Bank	New York, New York, USA
Analyst, Corporate Finance	1989 – 1990

AWARDS AND HONORS**National Academies of Science, Engineering, and Medicine**

Jefferson Science Fellow

Washington, DC, USA

2020 – 2021

U.S. Department of State

Bureau of Intelligence and Research, Office of the Geographer and Global Issues

SELECTED GRANTS AND CONTRACTS

- Institute for Public Policy and Social Research, Michigan State University. Tipping the Scale on Recycling in Michigan, Michigan Applied Public Policy Research Grant. \$9,000, 2024. Principal investigator, with R. Auras and R. LaMore.
- Michigan Department of Environment, Great Lakes, and Energy (Michigan Environmental Council, direct grantor). Learning to Live in Dynamic Dunes. \$100,000, 2019. Co-PI, with A. Arbogast, B. Garmon, and T. Zimmnicki.
- Michigan Realtors®. Impact of Water Quality on Housing Values in Michigan. \$136,680, 2018-2019. Principal investigator.
- Alliance for African Partnership. Energy Security for Sustainable Livelihoods in Southern Africa. \$140,000, 2017-2020. Principal investigator, with P. Nzokou and L. Zulu.
- U.S. Agency for International Development. Africa RISING: Transforming Key Production Systems – Sustainable Intensification in East and Southern Africa. \$994,969, 2015-2017. Co-PI, with S. S. Snapp, R. Chikowo, and J. Messina.
- Michigan Department of Environmental Quality (Michigan Environmental Council, direct grantor). Characterizing the Uses and Values of Freshwater Coastal Dunes. \$100,000, 2017. Co-PI, with A. Arbogast, B. Garmon, E. Isley, J. Jarosz, and S. Nicholls.
- National Science Foundation. Food, Energy, Water and Abundance: Improving Cross-Border Governance and Protection of the Great Waters of the World (conference grant). \$90,971, 2015. Principal investigator, with C. Garnache, M. C. Lopez, A. Pearson, and A. Zwickle.
- U.S. Agency for International Development. Africa RISING: Global Climate Change and Biodiversity in Zambia. \$375,000, 2014-2018. Principal investigator, with L. S. Olabisi.
- U.S. Agency for International Development. Africa RISING: Transforming Key Production Systems – Sustainable Intensification in East and Southern Africa. \$500,000, 2014-2015. Co-PI, with S. S. Snapp.
- U.S. Agency for International Development. Africa RISING: Transforming Key Production Systems – Sustainable Intensification in East and Southern Africa. \$750,000, 2013-2014. Co-PI, with S. S. Snapp.
- Bill and Melinda Gates Foundation. Perennial Grain Crops for African Smallholder Farming Systems. \$1,500,000, 2013-2015, Grant #OPP1076311, Co-PI, with S. S. Snapp, J. Messina, B. Basso, and L. S. Olabisi.
- U.S. Agency for International Development. \$564,397, 2012-2015. Integrating Nutrition in Value Chains – Malawi. Co-PI, with D. Clay, M. Maredia, M. Suvedi, A. Ferguson, and D. L. Ortega.

SELECTED GRANTS AND CONTRACTS, *continued*

- U.S. Agency for International Development. \$355,212, 2013-2014. USAID Initiative for Long-Term Training and Capacity Building – Malawi. Co-PI, with M. Suvedi, M. Kaplowitz, and M. Raven.
- U.S. Agency for International Development. Evaluation and Strengthening Local Capacity to Monitor and Evaluate Food Security Programs in Cambodia. \$2,000,000, 2012-2016. Co-PI, with R. Benfica, D. Boughton, K. Chung, M. Kaplowitz, M. Suvedi, and V. Thériault.
- Great Lakes Protection Fund (The Nature Conservancy, direct grantor). \$256,300, 2012-2015. Great Lakes Watershed Ecological Sustainability Strategy: Transactions for Agricultural Ecosystem Services. Co-PI, with S. Swinton, J. Kerr, and R. Shupp.
- Alaska Department of Fish and Game. \$364,850, 2012-2013. The Economic Importance of Wildlife to Alaska. Co-PI, with E. Niemi, M. Buckley, and S. Reich (subcontract to ECONorthwest).
- National Science Foundation: Division of Social and Economic Sciences, Decision Risk and Management Science. \$393,951, 2009-2012. Resource Management in Developing Countries: Improving Decisions by Uncovering Hidden Objectives and Confronting Difficult Tradeoffs. Co-PI, with J. Árvai, J. Kerr, and R. Gregory.
- U.S. Agency for International Development. \$3,749,072, 2007-2010. Policy Research for Organizing Agricultural Competitiveness, Trade, and a Vibrant Economy, Zambia. Food Security Research Project. Co-PI, with T. Jayne, D. Tschirley, and M. Weber.
- Swedish International Development Agency. \$2,752,733, 2007-2010. Policy Research for Organizing Agricultural Competitiveness, Trade, and a Vibrant Economy, Zambia. Food Security Research Project. Co-PI, with T. Jayne, D. Tschirley, and M. Weber.
- Sustainable Michigan Endowed Project. \$29,125, 2010-2011. Understanding the Relationship Between Attitudes, Well-Being and Private-Sphere Environmental Behavior. Integrative Project Grant.
- Sustainable Michigan Endowed Project. \$22,751, 2008-2009. Graduate Education in Sustainability: Socioeconomic Well-Being and the Genuine Progress Indicator. Integrative Project Grant.
- National Park Service. \$100,000, 2008-2011. Economic Impact of National Parks: Money Generation Model. Co-PI, with D. Stynes.
- Sierra Club. \$12,500, 2008. Distribution of Recreation Benefits in National Parks and Recreation Areas in Southern California.
- United Nations Development Programme. \$37,500, 2006-2007. Economic Vulnerability to Climate Change in Belize: Implications for human development.
- Ministry of National Development, Government of Belize. \$17,396, 2006. Institutional Analysis and Capacity Building for Poverty Alleviation: National Human Development Advisory Committee.
- Houston Advanced Research Center. \$16,943, 2006. The Value of Nature in Texas: Valuation of Freshwater Inflows in the Lower Rio Grande Valley and Estuary.
- The Wilderness Society. \$45,000, 2002-2005. Economic Benefits of Wilderness Designation in California.

SELECTED PUBLICATIONS

Peer-Reviewed Journal Articles

- Olabisi, M., L. Schmitt Olabisi, and **R. B. Richardson**. (2024). Renewable energy finance in Africa as a global leverage point. *Renewable and Sustainable Energy Reviews* 210: 115233. <https://doi.org/10.1016/j.rser.2024.115233>.
- Zulu, L. C., J. F. Kamoto, I. D. S. Djenontin, C. B. L. Jumbe, I. Pangapanga-Phiri, **R. B. Richardson**, M. Subakanya, P. Nzokou, and S. D. Makungwa. (2024). Promoting cleaner cooking technologies in urban Malawi: Assessing the acceptance of pellet-fed gasifier cookstoves from a pilot targeted distribution model. *Energy for Sustainable Development* 83: 101570. <https://doi.org/10.1016/j.esd.2024.101570>.
- Silberg¹, T. R., **R. B. Richardson**, C. P. Borges, L. K. Schmitt Olabisi, M. C. Lopez, M. Grisotti, V. Chimonyo, B. B. Basso, and K. B. Renner (2024). Technology adoption and weed emergence dynamics: Social ecological modeling for maize-legume systems across Africa. *Ecology and Society* 29(1): 2. <https://doi.org/10.5751/ES-14667-290102>.
- Silberg¹, T. R., **R. B. Richardson**, M. C. Lopez, and M. Grisotti. (2023). An alternative approach to create and deploy discrete choice experiments. *International Journal of Social Research Methodology*. <https://doi.org/10.1080/13645579.2023.2183010>.
- Djenontin, I. N. S., L. C. Zulu, and **R. B. Richardson**. (2022). Smallholder farmers and forest landscape restoration in sub-Saharan Africa: Evidence from Central Malawi. *Land Use Policy* 122: 106345. <https://doi.org/10.1016/j.landusepol.2022.106345>.
- Olabisi, M., **R. B. Richardson**, and A. O. Adelaja. (2022). The next global crisis: Africa's renewable energy financing gap. *Climate and Development* 15(26): 501-508. <https://doi.org/10.1080/17565529.2022.2113022>.
- Olabisi, M. and **R. B. Richardson**. (2022). Why the poor pay higher energy prices: Evidence from Tanzania. *World Development Perspectives* 26: 100414. <https://doi.org/10.1016/j.wdp.2022.100414>.
- Richardson, R. B.**, L. Schmitt Olabisi, K. B. Waldman², N. Sakana², and N. G. Brugnone¹. (2021). Modeling interventions to reduce deforestation in Zambia. *Agricultural Systems* 194: 103263. <https://doi.org/10.1016/j.agsy.2021.103263>.
- Elegbede, O., J. Kerr, **R. Richardson**, and A. Sanou. (2021). Using a choice experiment to understand preferences for off-grid solar electricity attributes: The case of Nigerian households. *Energy for Sustainable Development* 60: 33-39. <https://doi.org/10.1016/j.esd.2020.12.001>.
- Vroegindewey¹, R., **R. B. Richardson**, D. L. Ortega, and V. Theriault. (2021). Consumer and retailer preferences for local dairy products: Evidence from stacked choice experiments in urban Mali. *Food Policy* 103: 102106. <https://doi.org/10.1016/j.foodpol.2021.102106>.
- Vroegindewey¹, R., **R. B. Richardson**, and V. Theriault. (2021). Key factors for increasing farmer participation in markets: evidence from the Malian dairy sector. *La Revue d'Elevage et Médecine Vétérinaire des pays Tropicaux (Tropical Livestock and Veterinary Medicine Review)* 74(2): 93-103. <https://doi.org/10.19182/remvt.36331>.

¹Graduate student supervised; ²Post-doctoral research associate supervised.

SELECTED PUBLICATIONS, *continued*

- Richardson, R. B.** (2021). The role of tourism in sustainable development. *Oxford Research Encyclopedia of Environmental Science*. Oxford University Press.
<https://doi.org/10.1093/acrefore/9780199389414.013.387>.
- Richardson, R. B.** and S. Nicholls. (2021). Characterizing the cultural ecosystem services of coastal sand dunes. *Journal of Great Lakes Research* 47(2): 546-551.
<https://doi.org/10.1016/j.jglr.2021.01.008>.
- Bessette, D., M. Ruttly, G. Gunn, V. Tarabara, and **R. Richardson**. (2021). The perceived risk of freshwater oil pipelines and spills in icy conditions. *Journal of Great Lakes Research* 47(1): 226-235. <https://doi.org/10.1016/j.jglr.2020.12.002>.
- Ghimire, R., M. Suvedi, M. Kaplowitz, and **R. B. Richardson**. (2021). Perceived importance of core competencies among extension professionals in Nepal. *Global Journal of Agricultural and Allied Sciences*, 3(1), 8-15. <https://doi.org/10.35251/gjaas.2021.002>.
- Gunn, G., V. Tarabara, M. Ruttly, D. Bessette, and **R. Richardson**. (2021). Roughness and storage capacity of freshwater ice in the Straits of Mackinac. *Cold Regions Science and Technology* 186: 103278. <http://doi.org/10.1016/j.coldregions.2021.103278>.
- Scott¹, C. K. and **R. B. Richardson**. (2021). Ego network analysis among emerging farmers. *SAGE Research Methods Cases*. <https://www.doi.org/10.4135/9781529758146>.
- Scott¹, C. K. and **R. B. Richardson**. (2021). Farmer social connectedness and market access: A case study of personal networks among emerging farmers. *Journal of Agriculture, Food Systems, and Community Development* 10(2): 1-23.
<https://doi.org/10.5304/jafscd.2021.102.024>.
- Silberg¹, T. R., K. Renner, L. S. Olabisi, **R. B. Richardson**, V. G. P. Chimonyo, M. Uriona-Maldonado, B. B. Basso, and C. Mwale. (2021). Modeling smallholder agricultural systems to manage Striga in the semi-arid tropics. *Agricultural Systems* 187: 103008.
<https://doi.org/10.1016/j.agsy.2020.103008>.
- Vroegindewey¹, R., **R. B. Richardson**, K. Chung, V. Theriault and D. L. Ortega. (2021). Competitive advantage and processor demand for local and imported food ingredients: Analysis from an urban dairy market in West Africa. *Journal of Agribusiness in Developing and Emerging Economies* 11(2): 140-159. <http://doi.org/10.1108/JADEE-06-2020-0133>.
- Laituri, M., **R. B. Richardson**, L. V. Cline, S. Viscuso, and L. Schwartz. (2021). COVID-19's second-order impacts on global vulnerable urban areas. *Annals of GIS* 28(4): 479–490. (2023 Most Downloaded Paper Award.) <https://doi.org/10.1080/19475683.2021.1954087>.
- Silberg¹, T. R., **R. B. Richardson**, and M. C. Lopez. (2020). Maize farmer preferences for intercropping systems to reduce Striga in Malawi. *Food Security* 12(2): 269-283.
<https://doi.org/10.1007/s12571-020-01013-2>.
- Adebiyi¹, J. A., L. Schmitt Olabisi, **R. Richardson**, L. S. O. Liverpool-Tasie, and K. Delate. (2020). Drivers and constraints to the adoption of organic leafy vegetable production in Nigeria: A livelihood approach. *Sustainability* 12(1): 96. <https://doi.org/10.3390/su12010096>.

¹Graduate student supervised; ²Post-doctoral research associate supervised.

SELECTED PUBLICATIONS, *continued*

- Aminpour, P., S. A. Gray, **R. B. Richardson**, A. Singer, L. Castro, M. Schaefer, M. A. Ramlan, and N. R. Chikowore. (2020). Perspectives of scholars on the nature of sustainability: A survey study. *International Journal of Sustainability in Higher Education* 21(1): 34-53. <https://doi.org/10.1108/IJSHE-05-2019-0161>.
- Bro¹, A., D. Ortega, D. C. Clay, and **R. B. Richardson**. (2020). Understanding individuals' incentives for climate change adaptation in Nicaragua's coffee sector. *Climate and Development* 12(4): 332-342. <https://doi.org/10.1080/17565529.2019.1619506>.
- Silberg¹, T. R., V. G. P. Chimonyo, **R. B. Richardson**, S. S. Snapp, and K. Renner. (2019). Legume diversification and weed management in African cereal-based systems. *Agricultural Systems* 174: 83-94. <https://doi.org/10.1016/j.agsy.2019.05.004>.
- Grabowski, P., L. Schmitt Olabisi, J. Adebisi¹, K. Waldman², **R. B. Richardson**, L. Rusinamhodzi, and S. S. Snapp. (2019). Assessing adoption potential in a risky environment: The case of perennial pigeonpea. *Agricultural Systems* 171: 89-99. <https://doi.org/10.1016/j.agsy.2019.01.001>.
- Mulenga¹, B., S. Tembo, and **R. B. Richardson**. (2019). Electricity access and charcoal consumption among urban households in Zambia. *Development Southern Africa* 36(5): 585-599. <https://doi.org/10.1080/0376835X.2018.1517036>.
- Rutty, M. and **R. B. Richardson**. (2019). Tourism research in Cuba: Gaps in knowledge and challenges for sustainable tourism. *Sustainability* 11(12): 3340-3346. <https://doi.org/10.3390/su11123340>.
- Hockett¹, M. and **R. B. Richardson**. (2018). Examining the drivers of agricultural experimentation among smallholder farmers in Malawi. *Experimental Agriculture* 54(01): 45-65. <https://doi.org/10.1017/S0014479716000673>.
- Waldman², K. B. and **R. B. Richardson**. (2018). Confronting tradeoffs between agricultural ecosystem services and adaptation to climate change in Mali. *Ecological Economics* 150: 184-193. <https://doi.org/10.1016/j.ecolecon.2018.04.003>.
- Subakanya, M., G. Tembo and **R. B. Richardson**. (2018). Land use plans and wildlife-inflicted crop damage in Zambia's Game Management Areas. *Environments* 5(10): 110. <http://doi.org/10.3390/environments5100110>.
- Richardson, R. B.** and M. Suvedi. (2018). The potential for small-scale aquaculture in Cambodia. *Environments* 5(7): 76. <https://doi.org/10.3390/environments5070076>.
- Ghimire¹, R., M. Suvedi, M. Kaplowitz, and **R. B. Richardson**. (2017). Competency assessment as a way of determining training and educational needs of extension professionals in Nepal. *Journal of International Agricultural and Extension Education* 24(2): 137-151. <https://doi.org/10.5191/jiaee.2017.24210>.
- Pearson, A. L., A. Rzutkiewicz, A. Zwickle, E. Mwita, and **R. B. Richardson**. (2017). Participatory mapping of environmental resources: A comparison of a Tanzanian pastoral community over time. *Land Use Policy* 69: 259-265. <https://doi.org/10.1016/j.landusepol.2017.09.020>.

¹Graduate student supervised; ²Post-doctoral research associate supervised.

SELECTED PUBLICATIONS, *continued*

- Mulenga¹, B. P., P. Hadunka, and **R. B. Richardson**. (2017). Rural households' participation in charcoal production in Zambia: Does agricultural productivity play a role? *Journal of Forest Economics* 26: 56-62. <https://doi.org/10.1016/j.jfe.2017.01.001>.
- Silberg¹, T., **R. B. Richardson**, M. Hockett¹, and S. S. Snapp. (2017). Maize-legume intercropping in Central Malawi: Determinants of practice. *International Journal of Agricultural Sustainability* 15(6): 662-680. <https://doi.org/10.1080/14735903.2017.1375070>.
- Silberg¹, T. R., M. C. Lopez, **R. B. Richardson**, T. P. Murphrey, G. Wingenbach, L. Lombardini, and T. Brown. (2017). Understanding social capital, networks, and institutions: A guide to support compost entrepreneurship for rural development. *Journal of Sustainable Development* 10(5): 71-84. <https://doi.org/10.5539/jsd.v10n5p71>.
- Waldman², K. B., D. L. Ortega, **R. B. Richardson**, and S. S. Snapp. (2017). Estimating demand for perennial pigeon pea in Malawi using choice experiments. *Ecological Economics* 131: 222-230. <https://doi.org/10.1016/j.ecolecon.2016.09.006>.
- Waldman², K. B., D. L. Ortega, **R. B. Richardson**, D. C. Clay, and S. Snapp. (2016). Preferences for legume attributes in maize-legume cropping systems in Malawi. *Food Security* 8(6): 1087-1099. <https://doi.org/10.1007/s12571-016-0616-4>.
- Mungai, L. M., S. S. Snapp, J. P. Messina, R. Chikowo, A. Smith, E. Anders, **R. B. Richardson**, and G. Li. (2016). Smallholder farms and the potential for sustainable intensification. *Frontiers in Plant Science: Agroecology and Land Use Systems* 7(1720): 1-17. <https://doi.org/10.3389/fpls.2016.01720>.
- Ortega, D. L., K. B. Waldman², **R. B. Richardson**, D. C. Clay, and S. Snapp. (2016). Sustainable intensification and farmer preferences for crop system attributes: Evidence from Malawi's Central and Southern Regions. *World Development* 87: 139-151. <https://doi.org/10.1016/j.worlddev.2016.06.007>.
- Holmes, T., J. M. Bowker, J. Englin, E. Hjerpe, J. B. Loomis, S. Phillips, and **R. B. Richardson**. (2016). A synthesis of the economic values of wilderness. *Journal of Forestry* 114(3): 320-328. <https://doi.org/10.5849/jof.14-136>.
- Hall, C. M., B. Amelung, S. Cohen, E. Eijgelaar, S. Gössling, J. Higham, R. Leemans, P. Peeters, Y. Ram, D. Scott, C. Aall, B. Abegg, J. E. Araña, S. Barr, S. Becken, R. Buckley, P. Burns, T. Coles, J. Dawson, R. Doran, G. Dubois, D. T. Duval, D. Fennell, A. M. Gill, M. Gren, W. Gronau, J. Guiver, D. Hopkins, E. H. Huijbens, K. Koens, M. Lamers, C. Lemieux, A. Lew, P. Long, F. Melissen, J. Nawijn, S. Nicholls, J.-H. Nilsson, R. Nunkoo, A. Pomeroy, A. Reis, D. Reiser, **R. B. Richardson**, C. M. Rogerson, J. Saarinen, A. D. Sæþórsdóttir, R. Steiger, P. Upham, S. van der Linden, G. Visser, G. Wall, and D. Weaver. (2015). Denying bogus skepticism in climate change and tourism research. *Tourism Management* 47: 352-356. <https://doi.org/10.1016/j.tourman.2014.08.009>.

¹Graduate student supervised; ²Post-doctoral research associate supervised.

SELECTED PUBLICATIONS, *continued*

- Hall, C. M., B. Amelung, S. Cohen, E. Eijgelaar, S. Gössling, J. Higham, R. Leemans, P. Peeters, Y. Ram, D. Scott, C. Aall, B. Abegg, J. E. Araña, S. Barr, S. Becken, R. Buckley, P. Burns, T. Coles, J. Dawson, R. Doran, G. Dubois, D. T. Duval, D. Fennell, A. M. Gill, M. Gren, W. Gronau, J. Guiver, D. Hopkins, E. H. Huijbens, K. Koens, M. Lamers, C. Lemieux, A. Lew, P. Long, F. Melissen, J. Nawijn, S. Nicholls, J.-H. Nilsson, R. Nunkoo, A. Pomeroy, A. Reis, D. Reiser, **R. B. Richardson**, C. M. Rogerson, J. Saarinen, A. D. Sæþórsdóttir, R. Steiger, P. Upham, S. van der Linden, G. Visser, G. Wall, and D. Weaver. (2015). No time for smokescreen skepticism: A rejoinder to Shani and Arad. *Tourism Management* 47: 341-347. <https://doi.org/10.1016/j.tourman.2014.08.008>.
- Árvai, J., D. Kellon¹, R. León, R. Gregory, and **R. B. Richardson**. (2014). Structuring international development decisions: Confronting tradeoffs between land use and community development in Costa Rica. *Environmental Systems and Decisions* 34(2): 224-236. <https://doi.org/10.1007/s10669-014-9495-4>.
- Mulenga¹, B., **R. B. Richardson**, G. Tembo, and L. Mapemba. (2014). Rural household participation in markets for non-timber forest products in Zambia. *Environment and Development Economics* 19(04): 487-504. <https://doi.org/10.1017/S1355770X13000569>.
- Zulu, L. and **R. B. Richardson**. (2013). Charcoal, livelihoods, and poverty reduction: Evidence from sub-Saharan Africa. *Energy for Sustainable Development* 17(2): 127-137. <https://doi.org/10.1016/j.esd.2012.07.007>.
- Richardson, R. B.**, D. Kellon¹, R. Leon, and J. L. Árvai. (2013). Using choice experiments to understand household tradeoffs regarding pineapple production and environmental management in Costa Rica. *Journal of Environmental Management* 127: 308-316. <https://doi.org/10.1016/j.jenvman.2013.05.043>.
- Mshenga, P. M. and **R. B. Richardson**. (2013). Micro and small enterprise participation in tourism in coastal Kenya. *Small Business Economics* 41(3): 667-681. <https://doi.org/10.1007/s11187-012-9449-5>.
- Richardson, R. B.**, A. Fernandez¹, D. Tschirley, and G. Tembo. (2012). Wildlife conservation in Zambia: Impacts on rural household welfare. *World Development* 40(5): 1068-1081. <https://doi.org/10.1016/j.worlddev.2011.09.019>.
- Mshenga, P. M., **R. B. Richardson**, B. K. Njehia, and E. A. Birachi. (2011). Antecedents to Kenyan coast hotels' purchases of agricultural products. *International Journal of Hospitality & Tourism Systems* 4(2): 12-20.
- Richardson, R. B.** (2010). Ecosystem services and food security: Economic perspectives on environmental sustainability. *Sustainability* 2(11): 3520-3548. <https://doi.org/10.3390/su2113520>.
- Richardson, R. B.** and K. Witkowski¹. (2010). Economic vulnerability to climate change for tourism-dependent nations. *Tourism Analysis* 15(3): 315-330. <https://doi.org/10.3727/108354210X12801550666105>.
- Bailey¹, E. B. and **R. B. Richardson**. (2010). A new economic framework for tourism decision making. Special issue: Beyond the boundary: Creating new epistemologies in tourism. *Tourism and Hospitality Research* 10(4): 367-376. <https://doi.org/10.1057/thr.2010.14>.

¹Graduate student supervised; ²Post-doctoral research associate supervised.

SELECTED PUBLICATIONS, *continued*

Mshenga, P. M., **R. B. Richardson**, B. K. Njehia, and E. A. Birachi. (2010). The contribution of tourism to micro and small enterprise growth. *Tourism Economics* 16(4): 953-964. <https://doi.org/10.5367/te.2010.0018>.

Richardson, R. B., J. Loomis, and S. Weiler. (2006). Recreation as a spatial good: Distance effects on changes in recreation visitation and benefits. *Review of Regional Studies* 36(3): 362-380. <https://rrs.scholasticahq.com/article/8325.pdf>.

Loomis, J. B. and **R. B. Richardson**. (2006). An external validity test of intended behavior: Comparing revealed preference and intended visitation in response to climate change. *Journal of Environmental Planning and Management* 49(4): 621-630. <https://doi.org/10.1080/09640560600747562>.

Gossling, S., P. Peeters, J.-P. Ceron, G. Dubois, T. Patterson, and **R. Richardson**. (2005). The eco-efficiency of tourism. *Ecological Economics* 54(4): 417-434. <https://doi.org/10.1016/j.ecolecon.2004.10.006>.

Richardson, R. B. and J. B. Loomis. (2005). Climate change and recreation benefits in an alpine national park. *Journal of Leisure Research* 37(3): 307-20. <https://doi.org/10.1080/00222216.2005.11950055>.

Richardson, R. B. and J. B. Loomis. (2004). Adaptive recreation planning and climate change: A contingent visitation approach. *Ecological Economics* 50(1): 83-99. <https://doi.org/10.1016/j.ecolecon.2004.02.010>.

Weiler, S. A., J. B. Loomis, **R. B. Richardson**, and S. A. Schwiff. (2002). Driving regional economic models with a statistical model: Possibilities for hypothesis tests on economic impacts. *Review of Regional Studies* 32(1): 97-111. <http://journal.srsa.org/ojs/index.php/RRS/article/view/32.1.7/259>.

Loomis, J. B. and **R. B. Richardson**. (2001). Economic values of protecting wilderness areas in the United States. *International Journal of Wilderness* 7(1): 31-34. <https://ijw.org/april-2001/>.

Works in Progress

Goralnik, L., L. Thorp, and **R. Richardson**. (2024). Contemplative practice and resilience: Pedagogies to support sustainable sustainability practice. Submitted.

Books and Book Chapters

Laituri, M., **R. B. Richardson**, and J. Kim, eds. (2022). *The Geographies of COVID-19: Geospatial Stories of a Global Pandemic*. Cham, Switzerland: Springer Nature. <https://link.springer.com/book/10.1007/978-3-031-11775-6>.

Richardson, R. B. (2022). Chapter 2: Defining first- and second-order impacts through maps. In: *The Geographies of COVID-19: Geospatial Stories of a Global Pandemic*, Laituri, M., R. B. Richardson, and J. Kim, eds. Cham, Switzerland: Springer Nature. https://doi.org/10.1007/978-3-031-11775-6_3.

¹Graduate student supervised; ²Post-doctoral research associate supervised.

SELECTED PUBLICATIONS, *continued*

- Laituri, M., **R. B. Richardson**, and J. Kim. (2022). Conclusion: The consequences of COVID-19 – What is next? In: *The Geographies of COVID-19: Geospatial Stories of a Global Pandemic*, Laituri, M., R. B. Richardson, and J. Kim, eds. Cham, Switzerland: Springer Nature. https://doi.org/10.1007/978-3-031-11775-6_23.
- Richardson, R. B.**, L. Schmitt Olabisi, K. B. Waldman², N. Sakana², and N. Brugnone¹. (2020) Using participatory system dynamics modeling of agricultural-environmental systems in a developing country context. In *Innovations in Collaborative Modeling*, L. Schmitt Olabisi, M. McNall, W. Porter, and J. Zhao, eds. East Lansing, MI: Michigan State University Press. <https://msupress.org/9781611863543/innovations-in-collaborative-modeling/>.
- Richardson, R. B.** (2020). Watersheds at the nexus. In: *The Food-Energy-Water Nexus* (Ch. 19, pp. 525-551), P. Saundry and B. L. Ruddell, eds. Cham, Switzerland: Springer Nature. https://doi.org/10.1007/978-3-030-29914-9_19.
- Kinne, B., D. Magee, B. A. McCarl, R. Mohtar, **R. B. Richardson**, B. L. Ruddell, P. Saundry, and L. Treemore-Spears. (2020). Opportunities at the nexus. In: *The Food-Energy-Water Nexus* (Ch. 21, pp. 587-611), P. Saundry and B. L. Ruddell, eds. Cham, Switzerland: Springer Nature. http://doi.org/10.1007/978-3-030-29914-9_21.
- Oh, C.-O., **R. B. Richardson**, and G. Lacher. (2015). Economic decision making in leisure and recreation. In *Leisure Matters: The State and Future of Leisure Studies* (Ch. 3, pp. 17-24), G. Walker, D. Scott, and M. Stodolska, eds. State College, PA: Venture Publishing.
- Richardson, R. B.** (editor). (2013). *Building a Green Economy: Perspectives from Ecological Economics*. East Lansing, MI: Michigan State University Press. <https://msupress.org/9781611861020/building-a-green-economy/>.
- Richardson, R. B.** (2013). Building a green economy: The case for an economic paint job. In *Building a Green Economy: Perspectives from Ecological Economics* (Ch. 1, pp. 3-18), R. B. Richardson, ed. East Lansing, MI: Michigan State University Press.
- Bessette¹, D. L. and **R. B. Richardson**. (2013). Evolutions in methods and technology for research in pro-environmental behavior. In *Building a Green Economy: Perspectives from Ecological Economics* (pp.295-312), R. B. Richardson, ed. East Lansing, MI: Michigan State University Press.
- Czech, B. and **R. B. Richardson**. (2011). The economics of cumulative effects: Ecological and macro by nature. In *Cumulative Effects in Wildlife Management: Impact Mitigation* (pp. 65-82), P. R. Krausman and L. K. Harris, eds. Boca Raton, FL: CRC Press, Taylor & Francis.
- Richardson, R. B.** (2008). Conceptualizing the value of ecosystem services in deserts. In *Creating Sustainability Within Our Midst: Challenges for the 21st Century* (pp. 225-248), R. L. Chapman, ed. New York: Pace University Press.
- Richardson, R. B.** (2007). Economic development in Belize: Two steps forward, two steps back. In *Taking Stock: Belize at 25 Years of Independence*. B. S. Balboni and J. O. Palacio, eds. Benque Viejo del Carmen, Belize: Cubola Productions.

¹Graduate student supervised; ²Post-doctoral research associate supervised.

SELECTED PUBLICATIONS, *continued*

Richardson, R. B. and J. B. Loomis. (2005). Effects of climate change on tourism demand and benefits in alpine areas. In *Tourism, Recreation, and Climate Change*, (pp. 164-180), C. M. Hall and J. E. Higham, eds. Clevedon, U.K.: Channel View Publications.

Research Reports

J. Simon, R. LaMore, R. Richardson, R. Auras. (2025). Tipping the scale on recycling in Michigan: SOSS Policy brief. [MAPPR Papers](#). Institute for Public Policy and Social Research, Michigan State University.

Malcom, J., W. Boone, **R. Richardson**, A. Miller, and P. Lee. (2024). Complex, interacting issues shape landscape-scale mitigation policy needs. U.S. Department of the Interior, Office of Policy Analysis Report | [R-2024-001](#). Washington, DC: U.S. Department of the Interior.

Olabisi, M., **R. Richardson**, and A. Adelaja. (2024). Taking Africa's Perspective on the Climate Crisis Seriously. In [Africa Year In Review 2023](#). Washington, DC: The Wilson Center.

Crowley, C., A. Miller, **R. Richardson**, and J. Malcom. (2023). Increasing damages from wildfires warrant investment in wildland fire management. U.S. Department of the Interior, Office of Policy Analysis Report | [R-2023-001](#). Washington, DC: U.S. Department of the Interior.

Olabisi, M., **R. Richardson**, and A. Adelaja. (2023). Closing Africa's Renewable Energy Financing Gap. In [Africa Year In Review 2022](#). Washington, DC: The Wilson Center.

Richardson, R. B., E. Mabaya, and T. Jayne (editors). (2022). Africa Agriculture Status Report 2022: *Accelerating African Food Systems Transformation* (Issue 10). Nairobi, Kenya: Alliance for a Green Revolution in Africa (AGRA). [AASR 2022](#).

Vroegindewey¹, R., **R. B. Richardson**, and V. Thériault. (2022). Chaînes de valeur du lait frais malien: Quelles sont les motivations politiques pour augmenter l'offre de lait frais par les producteurs maliens. Feed the Future Innovation Lab for Food Security Policy [Bulletin de recherche politique n°129](#). février 2022. East Lansing, MI: Michigan State University.

Vroegindewey¹, R., **R. B. Richardson**, K. Chung, D. L. Ortega, and V. Thériault. (2022). Comment les entreprises de lait frais peuvent-elles avoir un avantage concurrentiel par rapport aux produits concurrents fait à partir de lait en poudre importé. Feed the Future Innovation Lab for Food Security Policy [Bulletin de recherche politique n°128](#). février 2022. East Lansing, MI: Michigan State University.

Vroegindewey¹, R., **R. B. Richardson**, D. L. Ortega, and V. Thériault. (2022). Chaînes de valeur du lait frais malien: Les consommateurs et les détaillants maliens sont-ils prêts à payer plus cher pour du lait frais? Feed the Future Innovation Lab for Food Security Policy [Bulletin de recherche politique n°127](#). février 2022. East Lansing, MI: Michigan State University.

Vroegindewey¹, R., **R. B. Richardson**, D. L. Ortega, and V. Thériault. (2022). Les opportunités, les défis et les problèmes politiques auxquels sont confrontés les chaînes de valeur du lait frais au Mali. Feed the Future Innovation Lab for Food Security Policy [Bulletin de recherche politique n°118](#). janvier 2022. East Lansing, MI: Michigan State University.

¹Graduate student supervised; ²Post-doctoral research associate supervised.

SELECTED PUBLICATIONS, *continued*

- Merchant¹, C., L. Cooper, D. Brown, A. Dowtin, and **R. B. Richardson**. (2020). Carbon Accounting Estimates for the Michigan State University Sustainable Wood Recovery Initiative. October 2020. East Lansing, MI: Michigan State University.
- Vroegindewey¹, R., **R. B. Richardson**, and V. Thériault. (2020). Analysis of the determinants of milk producers' participation in output markets. Feed the Future Innovation Lab for Food Security Policy [Research Paper 178](#). July 2020. East Lansing, MI: Michigan State University.
- Lamore, R., R. Auras, A. Butler, C. Carignan, L. Dyga, E. Jodoin, S. Joshi, M. Mahmoudi, **R. Richardson**, A. Schneider, S. Selke, and V. Verter. (2020). Building a more sustainable economy in Michigan: Priority actions for supporting an extended producer and circular economy. [EPR/Circular Economy White Paper](#). Lansing, MI: MSU Center for Community and Economic Development.
- Athnos¹, A. R. and **R. B. Richardson**. (2020). The impact of water quality and time-of-sale regulations on residential property values in Michigan. Report to Michigan Realtors[®]. January 2020. Lansing, MI: Michigan Realtors[®].
- Arbogast, A. F., **R. B. Richardson**, and T. Zimmnicki. (2020). Learning to live in dynamic dunes. [Report](#) to Coastal Management Program, Office of the Great Lakes. January 2020. Lansing, MI: Michigan Department of Environment, Great Lakes, and Energy.
- Vroegindewey¹, R., V. Thériault, **R. Richardson**, and K. Chung. (2019). What drives food processor use of local versus imported inputs? Evidence from the Malian dairy sector. Feed the Future Innovation Lab for Food Security Policy [Research Paper 147](#). August 2019. East Lansing, MI: Michigan State University.
- Vroegindewey¹, R., **R. B. Richardson**, D. Ortega, and V. Thériault. (2019). Consumer and retailer preferences for local dairy products: Evidence from stacked choice experiments in urban Mali. Feed the Future Innovation Lab for Food Security Policy [Research Paper 134](#). June 2019. East Lansing, MI: Michigan State University.
- Richardson, R. B.** (2019). Africa RISING Global Climate Change Mitigation (Zambia). [Final Report](#). Ibadan, Nigeria: International Institute of Tropical Agriculture.
- Richardson, R. B.** and N. Brugnone¹. (2018). Oil spill economics: Estimates of the economic damages of an oil spill in the Straits of Mackinac in Michigan. Report to FLOW (For Love of Water). Traverse City, MI: FLOW.
- Arbogast, A. F., B. Garmon, E. S. Isley, J. Jarosz, A. Kreiger, S. Nicholls, C. Queen, and **R. B. Richardson**. (2018). Valuing Michigan's coastal dunes: GIS information and economic data to support management partnerships. [Report](#) to Coastal Zone Management Program, Office of the Great Lakes. August 2018. Lansing, MI: Michigan Department of Environmental Quality.
- Richardson, R. B.**, M. Suvedi, M. Kaplowitz, S. Mith, and S. Bora. (2016). Cambodia HARVEST aquaculture program evaluation. Project report. January 2016. Phnom Penh, Cambodia: United States Agency for International Development.

¹Graduate student supervised; ²Post-doctoral research associate supervised.

SELECTED PUBLICATIONS, *continued*

- Richardson, R. B.**, L. Schmitt Olabisi, N. Sakana², K. B. Waldman², and P. Grabowski². (2015). Impact of sustainable intensification on landscapes and livelihoods. Project report. August 2015. Washington, DC: United States Agency for International Development.
- Rogé, P., S. S. Snapp, **R. B. Richardson**, L. Schmitt Olabisi, B. Basso, J. Messina, B. Peter, K. Waldman², P. Grabowski, J. Adebisi, L. Liu, E. Weltzien, and S. Cox. (2015). Perennial grain crops for African smallholder farming systems. Report to the Bill and Melinda Gates Foundation. East Lansing: Michigan State University.
- Hockett, M., A. Smith, S. Snapp, R. Chikowo, and **R. Richardson**. (2014). Africa RISING farming systems analysis baseline report. Project report. East Lansing, MI: Michigan State University.
- Kerr, J. M., M. Lautenberger, K. Groble, and **R. B. Richardson**. (2013). Using fee reduction to promote agricultural soil and water conservation: An application to Michigan drain commissioners. Report for Great Lakes Watershed Ecological Sustainability Strategy Phase II: Payments for Agricultural Ecosystem Services.
- Mulenga¹, B. P., **R. B. Richardson**, and G. Tembo. (2012). Non-timber forest products and rural poverty alleviation in Zambia. [Working Paper No. 62](#). April 2012. Lusaka, Zambia: Indaba Agricultural Policy Research Institute.
- Mulenga¹, B. P., **R. B. Richardson**, L. Mapemba, and G. Tembo. (2011). The contribution of non-timber forest products to rural household income in Zambia. [Working Paper No. 54](#). June 2011. Lusaka, Zambia: Food Security Research Project, Michigan State University.
- Mulenga¹, B. P., **R. B. Richardson**, L. Mapemba, and G. Tembo. (2011). Contribution of non-timber forest products to rural household income in Zambia. [Policy Synthesis No. 46](#). September 2011. Lusaka, Zambia: Food Security Research Project.
- Staatz, J. M., V. A. Kelly, D. H. Boughton, N. Dembele, M. Sohlberg, A. Berthé, M. Skidmore, C. O. Diarra, A. Murekezi, **R. B. Richardson**, B. Simpson, S. Perakis, A. S. Diallo, R. Adjao, M. Sako, and N. Me-Nsopé. (2011). [Mali Agricultural Sector Assessment](#). USAID/Mali-AEG. April 2011. Bamako: United States Agency for International Development.
- Richardson, R. B.** (2010). Ecosystem services and food security: Economic perspectives on environmental sustainability. [MSU International Development Working Paper No. 110](#). December 2010. East Lansing, MI: Department of Agricultural, Food, and Resource Economics and the Department of Economics, Michigan State University.
- Simasiku, P., A. Chapoto, **R. Richardson**, M. Sichilongo, G. Tembo, M. Weber and A. Zulu. (2010). Natural resource management, food security and rural development In Zambia: Moving from research evidence to action. [Policy Synthesis No. 37](#). February 2010. Lusaka, Zambia: Food Security Research Project.
- Simasiku, P., A. Chapoto, **R. Richardson**, M. Sichilongo, G. Tembo, M. Weber and A. Zulu. (2010). Natural resource management, food security and rural development in Zambia: Moving from research evidence to action. Proceedings of the public forum. [Working Paper No. 44](#). February 2010. Lusaka, Zambia: Food Security Research Project, Michigan State University.

¹Graduate student supervised; ²Post-doctoral research associate supervised.

SELECTED PUBLICATIONS, *continued*

- Fernandez¹, A., **R. B. Richardson**, D. Tschirley and G. Tembo. (2009). Wildlife conservation in Zambia: impacts on rural household welfare. [Working Paper No. 41](#). September 2009. Lusaka, Zambia: Food Security Research Project.
- Fernandez¹, A., **R. B. Richardson**, D. Tschirley and G. Tembo. (2009). The impacts of wildlife conservation policies on rural household welfare in Zambia. [Policy Synthesis No. 33](#). September 2009. Lusaka, Zambia: Food Security Research Project.
- Richardson, R. B.** (2009). Belize and climate change: The costs of inaction. [Human Issues Development Paper](#), United Nations Development Programme. Belmopan: United Nations Development Programme.
- Richardson, R. B.** (2009). Recreation use in national forests, urban population growth, and demographic change: The case of the San Gabriel Mountains. Los Angeles, CA: Sierra Club.
- Mathis, M., D. Yoskowitz, P. Montagna, and **R. Richardson**. (2008). The economic value of water and ecosystem preservation Part 2: Freshwater inflows from the Rio Grande. Valuing Nature in Texas. Houston, TX: Houston Advanced Research Center.
- Richardson, R. B.** (2007). Tourism in Belize: Vulnerability and capacity assessment. In Belize – Second National Communication to the United Nations Framework Convention on Climate Change. Belmopan: Government of Belize.
- Rosberg, M. and **R. B. Richardson**. (2006). Institutional strengthening and capacity building: Poverty reduction. Belmopan, Belize: Government of Belize, Ministry of National Development, National Human Development Advisory Committee.
- Richardson, R. B.** (2005). The economic benefits of California desert wildlands. San Francisco, CA: The Wilderness Society.
- Richardson, R. B.** (2002). [Economic benefits of wildlands in the Eastern Sierra Nevada region of California](#). San Francisco, CA: The Wilderness Society.
- Loomis, J. B. and **R. B. Richardson**. (2000). [Economic values of protecting roadless areas in the United States](#). Washington, DC: The Wilderness Society and Heritage Forests Campaign.

Conference Proceedings

- Oldfield, M., E. Moran, P. Norris, A. L. Pearson, **R. B. Richardson**, and A. Zwickle. (2016). Food, energy, water and abundance: Improving cross-border governance and protection of the great waters of the world. Workshop Final Report, November 9-11, 2015, East Lansing, MI. National Science Foundation, Grant No. 1541825.
- Nkonde¹, C., T. Jayne, **R. B. Richardson**, and F. Place. (2015). Testing the farm size-productivity relationship over a wide range of farm sizes: Should the relationship be a decisive factor in guiding agricultural development and land policies in Zambia? 2015 World Bank Conference on Land and Poverty, March 23, 2015, The World Bank, Washington, DC. <https://doi.org/10.13140/RG.2.1.2407.6323>

¹Graduate student supervised; ²Post-doctoral research associate supervised.

SELECTED PUBLICATIONS, *continued*

- Chung, K., J. Kerr, P. Norris, M. Raven, **R. Richardson**, J. Rivera, and L. Thorp. (2012). Community sustainability. Proceedings of the Engaged Interdisciplinary Learning in Sustainability: Sustainable Engineering and Ecological Designs Workshop (NSF CCLI #0837151), July 2012. Santa Cruz, CA.
- Richardson, R. B.** (2003). The effects of climate change on mountain tourism: A contingent behaviour methodology. Proceedings of the 1st International Conference on Climate Change and Tourism, Djerba, Tunisia, 9-11 April, 2003. Madrid: World Tourism Organization.
- Richardson, R. B.** (2003). Measuring the effects of climate change on recreation demand and benefits. In Murdy, J.J. (ed.), Proceedings of the 2003 Northeastern Recreation Research Symposium. April 6-8, 2003, Bolton Landing, NY. [General Technical Report NE-317](#). Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northeastern Research Station.

Book Reviews

- Richardson, R. B.** (2018). Book Review: *Worst-Case Economics: Extreme Events in Climate and Finance*, by F. Ackerman. Anthem Press, New York, NY, USA (2017), 208 pp. ISBN: 978-1783087075. *Ecological Economics* 150: 361-362. <https://doi.org/10.1016/j.ecolecon.2018.04.018>.
- Richardson, R. B.** (2017). Book Review: *Pursuing Sustainability: A Guide to the Science and Practice*, by P. Matson, W. C. Clark, and K. Andersson. Princeton University Press, Princeton, NJ, USA (2016), 248 pp. ISBN: 978-0691157610. *Ecological Economics* 131: 584-585. <https://doi.org/10.1016/j.ecolecon.2016.08.031>
- Silberg¹, T. and **R. B. Richardson**. (2015). Book Review: *Balancing on a Planet: The Future of Food and Agriculture*, by D. A. Cleveland. University of California Press, Berkeley, CA, USA (2014). 352 pp. ISBN: 978-0520277427. *Agricultural Systems* 135: 141-142. <https://doi.org/10.1016/j.agsy.2015.01.001>

Reference Materials

- Richardson, R. B.** (2023). Agricultural ecosystem services. In *Dictionary of Ecological Economics: Terms for the New Millennium*, B. M. Haddad and B. D. Solomon, eds. Northampton, MA: Edward Elgar Publishing.
- Richardson, R. B.** (2023). Choice experiments. In *Dictionary of Ecological Economics: Terms for the New Millennium*, B. M. Haddad and B. D. Solomon, eds. Northampton, MA: Edward Elgar Publishing.
- Richardson, R. B.** (2014). Ecological Economics. In *Environmental and Natural Resource Economics: An Encyclopedia*, T. Haab and J. Whitehead, eds. Santa Barbara, CA: ABC-CLIO/Greenwood.
- Richardson, R. B.** (2014). Genuine Progress Indicator. In *Achieving Sustainability: Visions, Principles, and Practices*, vol. 1 (pp. 381-385), D. Rowe, ed. Detroit: Macmillan Reference USA.

¹Graduate student supervised; ²Post-doctoral research associate supervised.

SELECTED PUBLICATIONS, *continued*

- Richardson, R. B.** (2014). Quality of Life and Alternative Economic Indicators. In *Achieving Sustainability: Visions, Principles, and Practices*, vol. 2 (pp. 634-640), D. Rowe, ed. Detroit: Macmillan Reference USA.
- Richardson, R. B.** (2011). Ecosystem Services Valuation. In Global Reference on the Environment, Energy, and Natural Resources Online Collection. *Global Reference on the Environment, Energy, and Natural Resources*. Detroit: Gale Cengage Learning.
- Richardson, R. B.** (2011). Ecosystem Services Valuation: An Annotated Selected Bibliography. In Global Reference on the Environment, Energy, and Natural Resources Online Collection. *Global Reference on the Environment, Energy, and Natural Resources*. Detroit: Gale Cengage Learning.
- Richardson, R. B.** (2008). Belize. In *Encyclopedia of Global Warming and Climate Change*, vol. I (p. 116), S. G. Philander, ed. Thousand Oaks, CA: Sage Publications, Inc.
- Richardson, R. B.** (2008). Zambia. In *Encyclopedia of Global Warming and Climate Change*, vol. III, (pp. 1118-19), S. G. Philander, ed. Thousand Oaks, CA: Sage Publications, Inc.

Commentary, Editorial, and Blog Essays

- Mabaya, E., **R. B. Richardson**, and T. Jayne. (2022). Towards zero hunger in Africa: 5 steps to achieve food security. [The Conversation, October 17, 2022](#).
- Tarabara, V., D. Bessette, **R. Richardson**, G. Gunn, and M. Ruddy. (2020). Oil flow beneath ice in the Great Lakes: an update. [Michigan Policy Wonk, February 14, 2020](#).
- Richardson, R. B.** (2019). ‘Environmental footprints’ tend to underestimate resource use. [Undark, August 6, 2019](#).
- Richardson, R. B.** (2019). Resource depletion is a serious problem, but ‘footprint’ estimates don’t tell us much about it. [The Conversation, July 24, 2019](#).
- Brugnone¹, N. G. and **R. B. Richardson**. (2018). Line 5 threatens the Great Lakes. [Lansing State Journal, December 9, 2018](#).
- Richardson, R. B.** (2018). Yes, humans are depleting Earth’s resources, but ‘footprint’ estimates don’t tell the full story. [The Conversation, July 30, 2018](#).
- Richardson, R. B.** and N. G. Brugnone¹. (2018). Need a reason to care about a Line 5 spill? Here’s 6 billion of them. [Bridge, May 28, 2018](#). Ann Arbor, MI: The Center for Michigan.
- Richardson, R. B.** and N. G. Brugnone¹. (2018). An oil spill from Line 5 would devastate our economy. [Lansing State Journal, May 17, 2018](#).
- Richardson, R. B.** (2018). Neoliberalism and the erosion of science in environmental policy. [Future U, May 7, 2018](#).
- Richardson, R. B.** (2017). Trump’s attack on science isn’t going very well. [The Washington Post, August 10, 2017](#).
- Richardson, R. B.** (2017). Dismissed from an EPA board, an MSU economist fears for agency’s and planet’s, future. [Bridge, May 12, 2017](#). Ann Arbor, MI: The Center for Michigan.
- Richardson, R. B.** and C. Flint. (2016). Bringing insights from social science to environmental science and policy. [The EPA Blog, October 26, 2016](#).

¹Graduate student supervised; ²Post-doctoral research associate supervised.

SELECTED PUBLICATIONS, *continued*

Richardson, R. B. (2015). Correcting the books with the Genuine Progress Indicator. [ecotrope](#), February 20, 2015.

Richardson, R. B. (2014). *oikos + tropos = ecotrope*. [ecotrope](#), December 11, 2014.

Richardson, R. B. (2009). Inaction more costly than cap-and-trade plan. *The Detroit News*, March 16, 2009.

Media Appearances and References

“State of the State podcast examines Michiganders’ attitudes toward recycling,” [State of the State podcast](#), Institute for Public Policy and Social Research, Michigan State University, April 3, 2025.

“Greenest States (2025),” [WalletHub](#), April 9, 2025.

“Lawmakers plan bills to protect Michigan sand dunes,” by Clara Lincolnhol, [Great Lakes Echo](#), November 2, 2024.

“Interior analysts count reasons to boost wildfire management,” GREENWIRE | POLITICO Pro, June 13, 2023.

“2021's Greenest Cities in America,” [WalletHub](#), October 6, 2021.

“Reality check: Line 5 threatens more jobs than it sustains,” [Canada’s National Observer](#), March 18, 2021.

“‘The Earth has a deadline’: The value of sustainability and how to incorporate it into your daily life,” [The State News](#), October 29, 2020.

“Earth Overshoot Day’ is this week,” by Susan Shain and John Schwartz, [Climate Fwd.](#), [The New York Times](#), August 19, 2020.

“What do dunes mean to Michigan? Latest research from CSUS faculty explores perceptions of coastal sand dunes,” by Amanda Sorensen, [Michigan State University](#), June 1, 2020.

“Oil flow beneath ice in the Great Lakes,” by Cynthia Kyle and Caroline Brooks, [MSU Today](#), February 26, 2020.

“Sand dune enthusiasts flock to Lansing,” by Helen Korneffel, [City Pulse](#), October 2, 2019.

“Lansing Symposium To Teach About Michigan’s Sand Dunes,” by Capital News Service, [WKAR Public Media](#), October 2, 2019.

“Can brands bring real sustainability to the travel industry?: An ecological economist says it doesn't have to be a zero-sum game,” by Ryan Barwick, [Adweek](#), August 28, 2019.

“Day that measures consumption of resources moving earlier,” by Ray García, [WKAR](#), August 5, 2019.

“Michiganders worried about Line 5 spill into Mackinac Straits, MSU research finds,” by Russ White, [WKAR](#), February 22, 2019.

“Economic loss from Line 5 oil spill could reach \$45 billion, study says,” by Michael Kransz, [MLive](#), November 20, 2018.

“How Fast Is Our Goose Being Cooked?,” [GrowthBusters](#) podcast, Episode 18, September 20, 2018.

“New Study says Line 5 Oil Spill could cost Michigan 6 billion dollars,” [Great Lakes Now](#), Detroit Public Television, May 8, 2018.

¹Graduate student supervised; ²Post-doctoral research associate supervised.

SELECTED PUBLICATIONS, *continued*

- “Study predicts major Mackinac Straits oil pipeline leak would cost state economy billions,” [Michigan Radio](#), May 2, 2018.
- “Study Shows More Than \$6 Billion Impact, Line 5 Oil Spill,” [WWUP-TV 9&10 News](#), May 2, 2018.
- “An environment without ethics?,” [The World Weekly](#), April 12, 2018.
- “Dune fans include stormwatchers, ecologists, campers, economists,” [Great Lakes Echo](#), January 8, 2018.
- “EPA dismisses half of key board’s scientific advisers; Interior suspends more than 200 advisory panels”, by Juliet Eilperin and Brady Dennis, [The Washington Post](#), May 8, 2017.
- “Survey: dune supporters include stormwatchers, ecologists, campers, economists,” [Capital News Service](#), December 8, 2017.
- “Valuable dunes need to be protected, experts say,” [The Herald-Palladium](#), November 10, 2017.
- “Climate change at EPA,” [Lansing City Pulse](#), June 21, 2017.
- “MSU conference explores need for greater international cooperation to protect vital global watersheds,” by Russ White, [MLive, November 25, 2015](#).
- “Bringing the latest science: Scientists present research on coastal dune management,” by Caleb Whitmer, [Holland Sentinel](#), August 30, 2016.
- “Climate change could cost Belize hundreds of millions if we do nothing: UNDP Report,” [AMANDALA Belize, July 30, 2009](#).

SELECTED PRESENTATIONS*Invited Presentations (Past 10 years)*

- “Rachel Carson: USSEE Fellows lecture,” U.S. Society for Ecological Economics webinar, December 6, 2024.
- “Engagement in Research and Policy Conversations,” with K. Kovacs, M. T. Heberling, P. Champ, and L. Richardson. Actionable Economic Research for Policy Making, AERE/AAEA Joint Fall Virtual Workshop. October 24, 2024.
- “Research career panel,” with R. Alexander, S. Mangassarian, and E. Prescott. National Science Foundation, Accelerating Research through International Network-to-Network Collaborations (AccelNet) Early Career Researcher workshop. Arlington, Virginia, October 18, 2023.
- “Ecological economics in U.S. policy: Natural capital accounting and beyond,” with K. Bagstad. United States Society for Ecological Economics webinar. May 10, 2023.
- “Accounting for nature: Natural capital accounting and the Department of the Interior,” with K. Bagstad. Policy Seminar, Office of Policy Analysis, U.S. Department of the Interior. April 18, 2023.
- “U.S. Department of the Interior: Priorities concerning environmental change and society,” National Academies of Science, Engineering, and Medicine, Board on Environmental Change and Society, December 1, 2022.
- “Second-order impacts of the COVID-19 pandemic,” Build and Broaden Workshop, Northern Arizona University, Flagstaff, Arizona, May 18, 2022.
- “Ecological economics and a new agenda for environmental policy,” Global Sustainability Forum, Center for Global Sustainability, University of Maryland, College Park, Maryland, April 5, 2022.

¹Graduate student supervised; ²Post-doctoral research associate supervised.

SELECTED PRESENTATIONS, *continued*

- “Global food security: The synergistic nature of conflict, climate, and crisis,” Jefferson Science Fellows Distinguished Lecture Series, National Academies of Sciences, Engineering and Medicine, Washington, DC, June 29, 2021.
- “Estimates of the economic damages of an oil spill in the Straits of Mackinac,” Canadian Studies Center, Michigan State University, March 10, 2021.
- “Confronting tradeoffs between agricultural ecosystem services and adaptation to climate change in Mali,” with K. B. Waldman, seminar series, Department of Agricultural and Resource Economics, University of Tennessee, Knoxville, Tennessee, September 19, 2019.
- “Ecological economics: Visions of utopia and dystopia,” invited presentation for the panel session, Utopia/Dystopia: Imagining the Best and Worst Places to Be, Sharper Focus, Wider Lens Series, MSU Honors College, Michigan State University, September 16, 2019.
- “Do we need an ecological economics? Retrospective and propositions,” Presidential Address, U.S. Society for Ecological Economics, Louisville, Kentucky, August 14, 2019.
- “Resilience in global food systems: what does it look like?,” with R. Carter and B. Irwin. Association for International Agriculture and Rural Development annual meeting, Washington, DC, June 3, 2019.
- “Winter lake oil spills: Risk perception, detection, and remediation,” with D. Bessette and V. Tarabara, IPPSR Public Policy Forum, Institute for Public Policy and Social Research, Lansing, Michigan, April 17, 2019.
- “Energy security and sustainable livelihoods for southern Africa,” Institute for African Development Seminar Series, Cornell University, Ithaca, New York, September 6, 2018.
- “Estimating demand for perennial pigeon pea in Malawi using choice experiments,” MiND Research Colloquium, International Crops Research Institute for the Semi-Arid Tropics, Nairobi, Kenya, July 24, 2018.
- “Neoliberalism and the erosion of science in environmental policy,” Friday Forum on Neoliberalism & Public Higher Education, Michigan State University, April 13, 2018.
- “Integration of social sciences in environmental health research,” with C. Flint, U.S. Environmental Protection Agency, Office of Research and Development, Research Triangle Park, North Carolina, October 4-5, 2016.
- “Social and behavioral sciences: Contributions to environmental policy and practice,” with C. Flint, U.S. Environmental Protection Agency, Office of Policy, Washington, DC, September 9, 2016.
- “Participatory system dynamics modeling: A tool for prioritizing climate-smart agriculture investments,” with L. Schmitt Olabisi, Agrilinks webinar, U.S. Agency for International Development, <https://agrilinks.org/>, June 16, 2016.
- “Connecting the dots with data: Participatory systems modeling of landscape-scale impacts of sustainable intensification in Zambia,” Seminar Series, International Food Policy Research Institute, Washington, DC, April 21, 2016.
- “Food, energy, water and abundance: Cross-border governance and protection of the great waters of the world,” Fate of the Earth Symposium, Environmental Science and Policy Program, Michigan State University, April 7, 2016.
- “Integrating research and teaching in global sustainable development,” seminar series, Department of Sustainable Development, Appalachian State University, Boone, North Carolina, October 14, 2015.
- “Estimating demand for perennial pigeon pea in Malawi using choice experiments,” seminar series, Department of Economics, Appalachian State University, Boone, North Carolina, October 9, 2015.

SELECTED PRESENTATIONS, *continued**Presentations at Academic and Professional Conferences (Past 10 years)*

- “Federal budgetary risk from climate change,” annual meeting of the Southern Economic Association, Washington, DC, November 25, 2024.
- “The federal government’s budget exposure to financial risk from climate change,” biennial meeting of the U.S. Society for Ecological Economics, Schenectady, NY, June 8, 2024.
- “Exploring the policy uses of natural capital accounting: A dialogue across the Atlantic,” with M. Tamborra, C. Shapiro, M. Paganini, A. La Notte, K. Bagstad, A. Ceglar, C. Rhodes, and C. Obst. European Association of Environmental and Resource Economists, Limassol, Cyprus, June 28, 2023.
- “Operationalizing sustainability measures at national and sub-national scales: Progress, challenges, and opportunities,” with W. Burnett, E. P. Fenichel, and E. G. Irwin. Agricultural & Applied Economics Association, Washington, DC, July 25, 2023.
- “Natural capital accounting for decision making at the Department of the Interior,” with F. Franco, and E. Kula. Society of Government Economists, Washington, DC, April 20, 2023.
- “U.S. national accounts and the environment: Looking to the future,” with E. Fenichel, J. Kolko, E. Blanchard, T. Briceno, and J. Shapiro, American Economic Association / Allied Social Sciences Associations, New Orleans, Louisiana, January 8, 2023.
- “Mental modeling to examine perceptions of freshwater coastal sand dunes,” biennial meeting of the U.S. Society for Ecological Economics, Virtual, June 21, 2022.
- “Meet the Cities’ COVID Mitigation Mapping (C2M2) initiative,” with M. Laituri and L. Cline, annual meeting of the American Association of Geographers, Virtual, April 9, 2021.
- “Energy security and sustainable livelihoods in southern Africa,” biennial meeting of the U.S. Society for Ecological Economics, Louisville, Kentucky, August 13, 2019.
- “Energy security and sustainable livelihoods for southern Africa,” Forests & Livelihoods: Assessment, Research, and Engagement (FLARE) Network, 4th Annual Meeting, Copenhagen, Denmark, October 17, 2018.
- “Confronting tradeoffs between agricultural ecosystem services and adaptation to climate change in Mali,” with Kurt B. Waldman, biennial meeting of the International Society for Ecological Economics, Puebla, Mexico, September 10, 2018.
- “Energy security and sustainable livelihoods for southern Africa,” Evidence to Action 2018 conference, International Centre for Evaluation and Development, Nairobi, Kenya, July 26, 2018.
- “Characterizing the uses and values of freshwater coastal dunes,” International Association for Great Lakes Research, Toronto, Ontario, June 21, 2018.
- “Characterizing ecosystem services of freshwater coastal dunes,” biennial meeting of the U.S. Society for Ecological Economics, Saint Paul, Minnesota, July 27, 2017.
- “Using participatory system dynamics modeling of agricultural-environmental systems in a developing country context,” with Laura Schmitt Olabisi, Innovations in Collaborative Modeling conference, East Lansing, MI, June 14, 2016.
- “Estimating demand for perennial pigeon pea in Malawi using choice experiments,” with Kurt Waldman, Joint meeting of the Canadian and U.S. Societies for Ecological Economics, Vancouver, British Columbia. October 2, 2015.
- “Searching for sustainable intensification of agriculture: Implications for landscapes and livelihoods,” Joint meeting of the Canadian and U.S. Societies for Ecological Economics, Vancouver, British Columbia. October 2, 2015.

SELECTED PRESENTATIONS, *continued**Posters Presented at Academic and Professional Conferences*

- Vroegindewey, R., V. Theriault, R. B. Richardson, and K. Chung. 2018. The “Hidden Middle” of Dairy Value Chains: An Organizational Economics Analysis of Processor Strategies in Mali. Disruptive Innovations, Value Chains, and Rural Development [conference poster](#), ICABR/The World Bank, Washington, DC, June 13–14, 2018.
- Richardson, R. B., A. Chapoto, C. Jumbe, J. Kamoto, J. Kazembe, E. Kuntashula, S. Makungwa, P. Nzokou, and L. Zulu. 2017. Energy Security for Sustainable Livelihoods in Southern Africa. Michigan State University Alliance for African Partnership, Launch Conference, Dar es Salaam, Tanzania, July 18, 2017.
- Richardson, R. B., L. Schmitt Olabisi, K. B. Waldman, and N. Sakana. 2017. Modeling the Impact of Sustainable Intensification on Landscapes and Livelihoods. Biennial meeting of the U.S. Society for Ecological Economics, Saint Paul, Minnesota, July 27, 2017.
- Jordan, C. and R. B. Richardson. 2015. Exploring the Linkages Between Energy and Food Security for Women Farmers in Malawi. University Undergraduate Research and Arts Forum, Michigan State University, East Lansing, MI, November 19, 2015.
- Luzadis, V. A., K. Bagstad, J. Erickson, M. J. Fox, L. Krall, R. Richardson, L. Schmitt Olabisi, M. R. Shammin and W. Lash Marshall. 2013. An Ecological Economics Agenda for Inquiry: Transforming the Economy for a Just and Sustainable World. Biennial meeting of the U.S. Society for Ecological Economics, Burlington, VT, June 9-12, 2013.

Outreach Presentations

- “Learning to live in dynamic dunes: Conceptualizing the values of Michigan’s freshwater coastal dunes,” The Stewardship Network, East Lansing, MI, January 17, 2020.
- “Conceptualizing the values of Michigan’s freshwater coastal dunes,” Michigan Coastal Dunes Symposium: Learning to Live in Dynamic Dunes, Lansing, MI, October 3, 2019.
- “Conceptualizing the values of Michigan’s freshwater coastal dunes,” Our Common Ground, Hastings, MI, May 30, 2019.
- “Oil Spill Economics: Estimates of the Economic Damages of an Oil Spill in the Straits of Mackinac in Michigan,” FLOW and the Mackinac Island Community Foundation, Trinity Church, Mackinac Island, MI, August 7, 2018.
- “Dune science and the conservation of Michigan’s coastal sand dunes,” MSU Science Festival, East Lansing, MI, April 7, 2018.
- “Characterizing the uses and values of freshwater coastal dunes,” Michigan Department of Environmental Quality, Lansing, MI, February 27, 2018.
- “Characterizing the uses and values of freshwater coastal dunes,” Michigan Department of Environmental Quality, Walker, MI, December 6, 2017.
- “Characterizing the uses and values of freshwater coastal dunes,” Preserve the Dunes and Southwest Michigan Planning Commission, St. Joseph, MI, October 9, 2017.
- “Characterizing the range of uses and values of freshwater coastal dunes,” Michigan Environmental Council, Freshwater Dune Summit, Muskegon, MI, May 8, 2017.
- “Examining assumptions about Climate-Smart Agriculture with participatory modeling: Field-scale practices to landscape-level impacts,” Feed the Future Global Learning and Evidence Exchange: Climate-Smart Agriculture. USAID Zambia, Lusaka, Zambia, March 15, 2016.
- “Measuring genuine progress in Michigan,” Regional Prosperity Dashboard Meeting, Lansing Economic Area Partnership, Lansing, MI, June 10, 2014.

SELECTED PRESENTATIONS, *continued*

- “Climate change and tourism systems: Implications for the Great Lakes Region,” Minnesota Sea Grant, University of Minnesota-Duluth. Duluth, MN, October 26, 2013.
- “Where do we go from here to achieve greater balance between our economic, social, and environmental systems?”, Re-Imagining our Economic System: A Balanced and Sustainable Economy, MSU Center for Community and Economic Development, Michigan State University, March 26, 2013.
- “Tourism and economic development: The World Park context,” Pohnpei Economic Conference, Government of Pohnpei, Federated States of Micronesia, May 13, 2010.
- “The impacts of wildlife conservation policies on rural welfare in Zambia,” Outreach Forum on Natural Resource Management and Rural Development in Zambia, Food Security Research Project, Lusaka, Zambia, December 3, 2009.
- “Economic values of coastal resources,” Michigan Department of Environmental Quality, Saginaw Bay Coastal Initiative Speakers Series, Bay City State Recreation Area, Bay City, MI, November 4, 2009.
- “The impacts of wildlife conservation policies on rural welfare in Zambia,” Research and Outreach in Game Park and Natural Resource Management to Improve Rural Household Welfare in Zambia, Natural Resources Consultative Forum, Lusaka, Zambia, October 27, 2009.
- “Measuring socioeconomic well-being in Michigan: The Genuine Progress Indicator,” Data Committee, Power of We Consortium, East Lansing, Michigan, August 3, 2009.
- “Measuring socioeconomic well-being in Michigan,” Capital Area Land Use and Health Resource Team, Ingham County Health Department, MI, Michigan, February 17, 2009.
- “Genuine progress: Measuring socioeconomic well-being,” Tri-County Regional Planning Commission, Lansing, Michigan, November 7, 2008.
- “Michigan tourism 2008: Past performance and future expectations,” with Sarah Nicholls. Driving Tourism 2008, Michigan Lodging and Tourism Conference, Grand Rapids, MI, April 13-15, 2008.
- “Economic development in Belize: Achievements, setbacks, and opportunities,” colloquium entitled, “Taking Stock: A Look Back and A Look Forward,” Belize City, Belize, September 18, 2007.
- “Climate change in Belize: Vulnerability of the tourism sector” Climate Change and Tourism workshop. Belize City, Belize, September 17, 2007.
- “Community-based resource management in coastal communities,” Workshop on Coastal Community Vulnerability and Adaptation, Mainstreaming Adaptation to Climate Change, Belize City, Belize, February 2006.
- “The economic vulnerability to climate change in Belize,” Regional Symposium on Information Sharing in Climate Change and Sustainable Development, CARICOM Climate Change Centre, Belmopan, Belize, September 2005.

TEACHING EXPERIENCE

Michigan State University	East Lansing, Michigan
• CSUS 310 – History of Environmental Thought and Sustainability	2014-2020
• CSUS 824 – Sustainable Development	2009-2019
• CSUS 300 – Theoretical Foundations of Sustainability	2017-2019
• NSC 292 – Contemplative Practices for Resilience (with L. Goralnik, L. Thorp)	2018
• NSC 300 – Voluntary Simplicity (with L. Thorp)	2014
• ESA 200 – Introduction to Environmental Studies and Agriscience	2012
• PRR 302 – Environmental Attitudes and Concepts	2011-2013
• EEP 320 – Environmental Economics	2008-2010
• ACR 800 – Foundations of Community, Agriculture, Recreation and Resource Studies	2008-2009
• PRR 474 – The Tourism System	2008-2009
• PRR 840 – Recreation and Tourism Economics	2007
• PRR 815 – Parks and Recreation Program Services	2007
Tulane University	New Orleans, Louisiana
• ENRG 7870 – Energy for Sustainable Development	2021-2022
Galen University	San Ignacio, Belize
• ESCI 199 – Introduction to Sustainable Development	2005-2006
• ESCI 360 – Applications in Sustainable Development	2006
• ECON 305 – Environmental Economics	2006
• MBA 602 – Global Economics	2006
• MBA 733 – Economic Policies of Sustainable Development	2006
• MBA 603 – Business Ethics & Human Rights	2006
• ECON 300 – National Income Analysis	2006
• TOUR 240 – Leisure and Recreation	2006
• ECON 366 – Finance	2005
• MGMT 282 – Small Business and Entrepreneurship	2005
San Francisco State University, Department of Economics	San Francisco, California
• ECON 305 – Economic Analysis for Non-Majors (Economics of Social Issues)	2005
University of San Francisco, Department of Economics	San Francisco, California
• ECON 111 – Principles of Microeconomics	2005
Centre for Rainforest Studies	Yungaburra, Queensland, Australia
• EE(SS) 302 – Environmental Economics and Policy	2003-2004
• EE(NS) 372 – Tropical Reforestation Studies	2004
Colorado State University, Department of Agricultural and Resource Economics	Fort Collins, Colorado
• EA 202 – Principles of Agricultural and Resource Economics	2002

INVITED LECTURES

Michigan State University (Past 10 years)

“Integration of science in environmental policy,” ESP 800: Introduction to Environmental Science & Policy, January 31, 2023.

“Environmental policy in agri-food systems,” AFRE 300: Public Policy Issues in the Agri-Food System, February 24, 2022.

INVITED LECTURES, *continued*

- “Sustainable development,” CSUS 215: International Development and Sustainability, February 17, 2022.
- “Integration of science in environmental policy,” ESP 800: Introduction to Environmental Science & Policy, February 1, 2022.
- “Energy security and sustainable development,” CSUS 826: International Development, March 24, 2021.
- “Food security program evaluation: small-scale aquaculture in Cambodia,” CSUS 429: Program Evaluation for Community Sustainability, September 29, 2020.
- “Environmental policy in agri-food systems,” ABM 400: Public Policy Issues in the Agri-Food System, February 26, 2020.
- “Economic perspectives on sustainability,” EEM 320: Environmental Economics, February 25, 2020.
- “Sustainability and the limitations of neoclassical economics,” EEM 320: Environmental Economics, February 21, 2019.
- “Environmental policy in agri-food systems,” ABM 400: Public Policy Issues in the Agri-Food System, February 20, 2019.
- “Applications of science in environmental policy,” ESP 800: Introduction to Environmental Science and Policy, January 22, 2019.
- “Policy problems, science, and environmental policy,” IBIO 446: Environmental Issues and Public Policy, October 15, 2018.
- “Participatory frameworks for community resilience,” CSUS 891: Social-Ecological Resilience, September 27, 2018.
- “Environmental policy in agri-food systems,” ABM 400: Public Policy Issues in the Agri-Food System, February 26, 2018.
- “Sustainability and the limitations of neoclassical economics,” EEP 320: Environmental Economics, February 22, 2018.
- “Applications of science in environmental policy,” ESP 800: Introduction to Environmental Science and Policy, February 13, 2018.
- “Metrics for a circular economy,” CSUS 473: Social Entrepreneurship and Community Sustainability, January 30, 2018.
- “Environmental policy and the role of scientific advisory boards,” Seminar Series, MSU Faculty Emeriti Association, September 28, 2017.
- “Sustainability and the problem with economics,” EEP 320: Environmental Economics, February 28, 2017.
- “Environmental policy: The role of science advisory boards,” ESP 800: Introduction to Environmental Science and Policy, February 7, 2017.
- “Ecological economics and wildlife policy,” FW 490: Wildlife Policy, March 18, 2015.
- “Sustainability and the economic problem,” EEP 320: Environmental Economics, February 24, 2015.

Other University Lectures (Past 10 years)

- “Synergistic nature of global food insecurity,” Community Nutrition, University of Texas at Austin, February 8, 2023.
- “Synergistic nature of global food insecurity,” Community Nutrition, University of Texas at Austin, February 14, 2022.
- “Geospatial solutions for boundaries, awareness, and partnership-building,” GEOG 498B: Coupled Human and Natural Systems, University of Maryland, October 5, 2021.

INVITED LECTURES, *continued*

“Methods for confronting tradeoffs in agricultural adaptation to climate change in Mali,” CRD 500/620:
Community Research Methods, Arizona State University, October 6, 2020.

GRADUATE STUDENT SUPERVISION AND ADVISING*Michigan State University*

Post-doctoral research associate supervisor

- Philip Grabowski, Sustainable intensification, landscapes, and livelihoods April 2014 – May 2015
- Naomi Sakana, Sustainable intensification, landscapes, and livelihoods July 2014 – August 2015
- Kurt Waldman, Perennial grains for Africa April 2014 – August 2015

Ph.D. advisor and chairperson

- Ryan Vroegindewey, Community Sustainability (Patterns of participation in African peri-urban dairy markets: Analyses of consumers, retailers, processors, and producers in Mali) December 2019
- Timothy Silberg, Community Sustainability (Modeling parasitic weed emergence across smallholder farming systems: The case of Central Malawi) May 2019
- Chewie Nkonde, Community, Agriculture, Recreation, and Resource Studies (Agricultural development in the context of farm structure change in Zambia) May 2017
- Eric B. Bailey, Community, Agriculture, Recreation, and Resource Studies (Micro and small business participation in Caribbean tourism: A value chain analysis) December 2016
- David Ivan, Community, Agriculture, Recreation, and Resource Studies (Community change and resilience: A theoretical and applied analysis) May 2013

M.S. advisor and chairperson

- Thany Hour, Community Sustainability (Assessment of aquaculture technology adoption and value chain system in Cambodia) May 2017
- Jacob Watson, Community Sustainability (Program Evaluation for the Beersheba Project's Internship Program in Senegal, West Africa) May 2017
- Eva Kassara, Community Sustainability (Gender differences in agriculture and natural resources management in sub-Saharan Africa) December 2016
- Christian Scott, Community Sustainability (The role of emerging farmers' personal networks in market access and startup farm success) December 2015
- Boaz Mandula, Community Sustainability (Enhancing access to agricultural information for extension: Developing a field reference handbook for extension workers in Malawi) August 2015
- Michele Hockett, Community, Agriculture, Recreation, and Resource Studies (“They say wealth is in the soil”: Local knowledge and agricultural experimentation in Malawi) August 2014
- Matthew Gardine, Community, Agriculture, Recreation, and Resource Studies (Participatory community development in rural Senegal) December 2012
- Douglas Bessette, Community, Agriculture, Recreation, and Resource Studies (Determining the relationships between attitudes, well-being and private-sphere environmental behavior) August 2011

GRADUATE STUDENT SUPERVISION AND ADVISING, *continued*

Ph.D. guidance committee

- | | |
|---|-----------------|
| • Lauren Cooper, Forestry | Exp., Dec. 2025 |
| • Ronak Sripal, Fisheries and Wildlife | August 2025 |
| • Brockton Feltman, Community Sustainability (Sustaining water resources and communities through local collaborative governance) | March 2024 |
| • Alaina Bur, Sociology (Community-based environmental governance in West Pokot County, Kenya) | June 2024 |
| • Donald Akanga, Geography (Interconnections between land cover change, climate variability and livelihoods in the Greater Mau Forest Complex, Kenya) | May 2023 |
| • Gang Lu, Forestry (Evaluating the socioeconomic impacts of China's Sloping Land Conversion Program) | May 2023 |
| • Kevin G. McKeehan, Geography (The geography and recent activity of Lake Michigan's coastal sand dunes) | August 2022 |
| • Kayleigh Ward, Sociology (Assessing disaster management effects on recovery outcomes in rural post-disaster Japan) | May 2022 |
| • Ida Nadia Sedjro Djenontin, Geography (Governance of people-centered forest-agricscapes restoration in Malawi: Institutional and modeling approaches) | August 2021 |
| • Amal Shaaban, Planning, Design, and Construction (Quality of life in contemporary neighborhood design initiatives: An empirical study to assess quality of life through spatial dimension in New Urbanist and LEED-certified neighborhoods) | August 2020 |
| • Tatevik Avetisyan, Community Sustainability (Empirical examination of food hub entrepreneurship models, supply chain risks, and networks) | May 2020 |
| • Jarrad Farris, Agricultural, Food, and Resource Economics (Assessing development outcomes when land, weather, and people differ) | May 2020 |
| • Erika Kraus, Forestry (Concepts and mechanisms of cultural ecosystem services in the Mono-Kouffo, Republic of Benin, and Michigan, USA: Toward an integrated model) | December 2019 |
| • Wen Lin, Agricultural, Food, and Resource Economics (Chinese consumer decision-making and novel food products) | December 2019 |
| • Nahid Sattar, Community Sustainability (The freshwater aquaculture revolution in Bangladesh: Impacts on land, water, and livelihoods) | January 2019 |
| • Jelili Adebiyi, Community Sustainability (A livelihood and systems-based approach for understanding drivers of adoption and disadoption of organic farming in Ibadan, Nigeria) | December 2018 |
| • Syed Hamza Haider, Agricultural, Food, and Resource Economics (Intensification and asset dynamics: Intrahousehold decision-making in Burkina Faso) | May 2018 |
| • Mukesh Ray, Agricultural, Food, and Resource Economics (Three essays in development economics) | May 2018 |
| • Socheat Keo, Community Sustainability (Adoption of productivity-enhancing inputs and improved farm practices in Cambodia's rice production) | December 2017 |
| • Michelle L. Larkins, Community Sustainability (The ties that bind: The intersection of gender, femininity, and place in women's community-based environmental justice action) | May 2017 |

GRADUATE STUDENT SUPERVISION AND ADVISING, *continued*

- Joseph Goeb, Agricultural, Food, and Resource Economics (The impact of pesticide safety information on farmer knowledge and demand for health goods: Experimental evidence from Zambia) May 2017
 - Michael Dolislager, Agricultural, Food, and Resource Economics (Food consumption patterns and urbanization: Evidence from east and southern Africa) May 2017
 - Aniseh Bro, Community Sustainability (Biodiversity, climate change, and livelihoods: Economic and ecological sustainability among coffee producers in the highlands of Nicaragua) December 2016
 - Ramjee Ghimire, Community Sustainability (Assessment of core competencies of agricultural extension professionals in Nepal) May 2016
 - Keneilwe Kgosikoma, Agricultural, Food, and Resource Economics (Essays on the economic value of wildlife-based recreation in developing countries) May 2016
 - Raul Pitoro, Community, Agriculture, Recreation and Resource Studies (The challenges and effects of agrarian reform in Africa: Evidence from rural Mozambique) December 2015
 - Milton Ayieki, Agricultural, Food, and Resource Economics (Patterns, determinants, and welfare effects of agricultural and livelihood diversification among smallholder farmers in rural Kenya) August 2015
 - Oscar Arreola, Community Sustainability (Learning from theories and practice of sustainability: In search of cohesion) May 2015
 - Delanie Kellon, Community, Agriculture, Recreation and Resource Studies (Resource management in a developing country context: Improving decisions by confronting difficult tradeoffs in Costa Rica) December 2010
 - Richard Grogan, Community, Agriculture, Recreation and Resource Studies (On the road to sustainability: From vision to action in the sustainability transition) December 2010
- M.S. guidance committee
- Paul C. Samboko, Agricultural, Food, and Resource Economics (The effects of medium and large-scale farms on young people's employment in agriculture: Evidence of Tanzania) December 2021
 - Travis Decaminada, Urban and Regional Planning (A bird in the hand is worth two on the bus: Social media and its ability to influence perceptions of autonomous public transport) August 2020
 - Simone Faas, Agricultural, Food, and Resource Economics (The role of intra-household empowerment measures on maternal and child health: Evidence from Zambia) May 2020
 - Benjamin Schram, Forestry (Family forests in Michigan: Michigan's Qualified Forest Program as a case study) May 2019
 - Adedamola Akinlembola, Agricultural, Food, and Resource Economics (Examining the determinants of adoption of soil fertility management practices: Panel survey data from Nigeria) May 2019
 - David Olson, Agricultural, Food, and Resource Economics (Do changes in maize prices and input prices affect smallholder farmers' soil fertility management decisions? Panel survey evidence from Kenya) August 2018

GRADUATE STUDENT SUPERVISION AND ADVISING, *continued*

- Ashleigh Burgess, Community Sustainability (Integrating Senegalese smallholder farmers and processors into the cashew value chain: An exploration of the cashew sector in Sokone area, Senegal) May 2017
- Ryan LeMier, Community Sustainability (Agricultural technology transfer in rural Nicaragua and Peace Corps: Barriers to adoption and case studies) May 2017
- Yijue Chen, Forestry (Carbon emission trading and offsetting in China) May 2017
- Florencia Colella, Agricultural, Food, and Resource Economics (Consumer preferences for retail channel and beef steak attributes: Experimental Evidence from Argentinean Consumers) May 2016
- Warveen Mosa, Forestry (Forest cover change and migration in Iraqi Kurdistan: A case study from Zawita Sub-district) May 2016
- Hastings Nyirongo, Community Sustainability (Exploring pluralistic and demand-driven extension services in central Malawi: Nkhotakota and Kasungu Districts) December 2015
- Chiwimbo Gwenambira, Crop and Soil Sciences (Below- and above-ground pigeon pea productivity in on-farm sole and intercrop systems in central Malawi) July 2015
- Hannah Livuza, Community Sustainability (Agricultural extension: A ‘how-to’ guide to essential competencies and skills for an effective extension worker) July 2015
- Eric Dobbrastine, Community Sustainability (Exploring the potential of volunteer tourism as a means of development for the Batwa of Kanungu District, Uganda) May 2015
- Anel Guel, Community Sustainability (Lake 513 and Mount Hualcán: An ecotourism project in the Peruvian Andes) March 2015
- Thelma Namonje, Agricultural, Food and Resource Economics (Effects of late delivery of fertilizer under the Farmer Input Support Program on technical efficiency and maize production of smallholder farmers in Zambia) July 2014
- Ayala Wineman, Agricultural, Food and Resource Economics (The multidimensional nature of rural household food security in Zambia: A panel analysis) December 2013
 - Best MS Thesis of 2014, Department of Agricultural, Food, and Resource Economics, Michigan State University
- Eleanor Turner, Agricultural, Food, and Resource Economics (Determinants of crop diversification among Mozambican smallholders: Evidence from a household panel) August 2013
- Philip Grabowski, Community, Agriculture, Recreation and Resource Studies (Constraints to adoption of conservation agriculture in the Angonia Highlands of Mozambique: Perspectives from smallholder hand-hoe farmers) April 2011
- Kristianna Post, Community, Agriculture, Recreation and Resource Studies (Risk management in a developing country context: structured decision making for point-of-use water treatment in rural Tanzania) December 2010
- Joseph Goeb, Agricultural, Food, and Resource Economics (Impacts of government maize supports on smallholder cotton production in Zambia) September 2010
- Yuan Yao Lee, Community, Agriculture, Recreation and Resource Studies (Cost-benefit analysis of Mei-Nong dam project: a case study) February 2010

GRADUATE STUDENT SUPERVISION AND ADVISING, *continued*

- Ana Fernandez, Agricultural, Food, and Resource Economics (Wildlife management in Zambia: impact of game management areas on household welfare) May 2009
 - Best MS Thesis of 2010, Department of Agricultural, Food, and Resource Economics, Michigan State University
 - Outstanding MS Thesis, Honorable Mention 2010, Agricultural & Applied Economics Association

External academic advising (in service at Michigan State University)

- Swati Kwatra, Ph.D., TERI University, India (Development and assessment of national and regional sustainability: A multi-pronged approach in the Indian context) December 2018
- Brian Mulenga, M.S., Agricultural and Applied Economics, Bunda College of Agriculture, Malawi (Contribution of selected non-timber forest products to rural household welfare in Zambia) December 2010
- Jackie Dawson, Ph.D., Department of Environmental Studies, University of Waterloo, Ontario, Canada (Climate change vulnerability of the US Northeast Ski Sector: A multi-methods systems-based approach, external examiner) July 2009
- Patience Mlongo Mshenga, Ph.D., Department of Agricultural Economics and Agribusiness, Egerton University, Kenya (Contribution of tourism to farm and non-farm micro and small enterprise growth: the case of the Kenyan coast) December 2008

UNDERGRADUATE STUDENT SUPERVISION AND ADVISING

Michigan State University

Supervisor, Undergraduate Research Program

- Christopher Merchant, Carbon accounting estimates for the Michigan State University Sustainable Wood Recovery Initiative Summer 2019
- Max Offerman, Statewide policy for on-site water treatment systems in Michigan Fall 2019
- Raisa Lenau, Game day challenge: Measuring attitudes towards waste management in stadium sporting events Fall 2017
- Claire Jordan, Gender and sustainable intensification in Malawi Summer 2015

SERVICE AND MEMBERSHIPS IN PROFESSIONAL SOCIETIES

Professional associations

- American Association for the Advancement of Science 2016 – present
- International Society for Ecological Economics 2000 – present
- U.S. Society for Ecological Economics 2001 – present
 - Board of Directors, Member At-Large 2025 – present
 - President / Past-President 2019 – 2022
 - President-elect 2018 – 2019
 - Chairperson, Scientific Committee, 2017 conference 2016 – 2017
 - Secretary-Treasurer 2009 – 2015

Professional service

- United Nations Environment Programme, Multidisciplinary Experts Panel of the Innovation Facility 2021 – present

SERVICE AND MEMBERSHIPS IN PROFESSIONAL SOCIETIES, *continued*

- U.S. Department of State, Bureau of Intelligence and Research, Subject Matter Expert Panel 2021 – 2022
- Reviewer, Master of Arts program in Leadership in Sustainable Development, SUNY Empire State College, Saratoga Springs, NY 2019
- U.S. Environmental Protection Agency, Board of Scientific Counselors Chairperson, Sustainable and Healthy Communities subcommittee 2014 – 2017
- Michigan Environmental Council Project Advisory Committee, “Bringing the Latest Science to Michigan’s Management of Our Coastal Dunes,” funded by Michigan Department of Environmental Quality 2014 – 2015
- Panelist, National Geographic Center for Sustainable Destinations 2007 – 2009

Academic and scientific journals

- Associate Editor, *Environmental Management* 2014 – present
- Associate Editor, *Journal of Natural Resources Policy Research* 2015 – present
- Science Advisory Board, *Economia agro-alimentare / Food Economy* 2018 – present
- Associate Editor, *Society and Natural Resources* 2010 – 2018
- Co-editor, Special Issue: Agricultural ecosystem services, *Environments* 2017 – 2018
- Editor, Special Issue: Transforming our world. *Societies* 2016 – 2017
- Associate Editor, *International Journal of Ecological Economics and Statistics* 2008 – 2013
- Editor, Special Issue: Measuring socio-economic well-being. *Sustainability* 2012 – 2013
- Peer reviewer for academic and scientific journals (past 10 years):
 - *Agriculture and Human Values* (2015)
 - *Agroforestry Systems* (2013, 2017)
 - *Climate Risk Management* (2020)
 - *Climatic Change* (2012, 2020)
 - *Ecological Economics* (2014, 2015, 2018, 2019, 2021, 2023)
 - *Energy Economics* (2014, 2015)
 - *Environmental Management* (2014, 2020, 2021, 2024, 2025)
 - *Environmental Research: Energy* (2025)
 - *Experimental Agriculture* (2016)
 - *Forests, Trees, and Livelihoods* (2014)
 - *Global Ecology and Conservation* (2019, 2020)
 - *Heliyon* (2022)
 - *International Social Science Journal* (2020)
 - *Journal of Development Studies* (2016)
 - *Journal of Environmental Management* (2018, 2019, 2020)
 - *Food Security* (2018)
 - *Journal of Sustainable Tourism* (2017, 2022)
 - *Land Use Policy* (2018)
 - *PLOS ONE* (2017)
 - *PNAS Nexus* (2022)
 - *Proceedings of the National Academy of Sciences* (2022)
 - *Renewable Agriculture and Food Systems* (2016)
 - *Risk Analysis* (2016)
 - *Society and Natural Resources* (2015, 2016, 2017, 2018, 2019)
 - *Sustainability* (2018)
 - *World Development* (2015, 2017, 2018)

SERVICE AND MEMBERSHIPS IN PROFESSIONAL SOCIETIES, *continued**Other scholarly publications*

- Reviewer, *National Climate Assessment*, U.S. Global Change Research Program 2012
- Reviewer, educational modules, Network of Conservation Educators and Practitioners, 2011
Center for Biodiversity and Conservation, American Museum of Natural History

Extramural review

- Promotion to Professor 2022
- Promotion to Professor 2021
- Tenure and promotion to Associate Professor 2021
- Tenure and promotion to Associate Professor 2021
- Tenure and promotion to Associate Professor 2013

UNIVERSITY SERVICE*Michigan State University*

- Environmental Science and Policy Program, Core Faculty 2007 – 2024
Member, Graduate Program Committee 2013 – 2016
Member, Fate of the Earth Symposium Committee 2013 – 2014
Member, Program Advisory Group 2008 – 2010
Member, Curriculum Review Committee 2009 – 2010
- Faculty Board of Advisors, Center for Community and Economic Development, 2010 – 2024
Member
- Editorial Advisory Board, Michigan State University Press, Member 2008 – 2022
- African Studies Center, Core Faculty 2007 – 2024
- Center for Advanced Study of International Development, Core Faculty 2007 – 2024
- Center for Latin American and Caribbean Studies, Core Faculty 2007 – 2024
- Center for Gender in the Global Context, Affiliated Faculty 2015 – 2024
- Center for Regional Food Systems, Affiliated Faculty 2013 – 2024
- Graduate Specialization in Environmental and Resource Economics, Core Faculty 2008 – 2024
- Steering Committee, Tanzania Partnership Program, Member 2011 – 2017
- Academy for Global Engagement Fellows program, Faculty mentor 2014 – 2015

Michigan State University, College of Agriculture and Natural Resources

- Co-Chair, Search Committee, W. K. Kellogg Foundation Chair in Food and Society 2021 – 2022
and Director, MSU Center for Regional Food Systems
- Academic Leaders professional development program 2019 – 2020
- Undergraduate Research Program review committee 2018 – 2020
- Academic Hearing Board 2012 – 2015

Michigan State University, Department of Community Sustainability

- Associate Chairperson 2018 – 2021
- Faculty Advisory Committee
Member, Chairperson 2016 – 2018
Member 2011 – 2013
- Member, Department Chairperson Search Committee 2016 – 2017

UNIVERSITY SERVICE, *continued*

- Graduate Affairs and Curriculum Committee
 - Chairperson 2014 – 2015
 - Member 2013 – 2014
 - Chairperson 2008 – 2010
 - Member 2007 – 2008
- Coordinator, Peace Corps Master's International program 2008 – 2016

OTHER APPOINTMENTS

- Fellow, Center for Behavioral and Experimental Agri-Environmental Research 2021 – present
- Adjunct Professor, Tulane Energy Institute, Tulane University 2020 – present
- Visiting Professor, Department of Economics, Appalachian State University 2015 – 2016
- Visiting Professor, Institute of Resource Assessment, University of Dar es Salaam, Tanzania 2015 – 2018
- Associate Director, Institute for Sustainable Solutions, Portland State University 2011
- Honorary Fellow, Gaylord Nelson Institute for Environmental Studies, University of Wisconsin 2005 – 2006
- Adjunct Professor, Department of Economics, San Francisco State University 2005
- Adjunct Professor, Department of Economics, University of San Francisco 2005
- Fellow, Center for Energy and Environmental Studies, Boston University 2003 – 2004
- Fellow, Gund Institute for Ecological Economics, University of Vermont 2002 – 2003

PROFESSIONAL DEVELOPMENT

- Strengths-Based Leadership, Michigan State University 2019
- Leading with Emotional Intelligence, Michigan State University 2018
- Experimental Auctions, International Summer School, University of Catania, Italy 2016
- Cutting-Edge Techniques in International Program Evaluation, Summer Institute
Georgetown Public Policy Institute, Georgetown University 2012

MISCELLANEOUS

- Written and spoken French
- Certified, Advanced Open Water Diver (PADI) 2004
- Certified, Open Water Diver (PADI) 2000
- Returned Peace Corps volunteer, Côte d'Ivoire (Urban environmental management, Bouna) 1998