ROBERT B. RICHARDSON

Michigan State University
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EDUCATION

Ph.D., Agricultural and Resource Economics — 2002
Colorado State University, Fort Collins, Colorado, USA
Fields of specialization: Environmental and Resource Economics; International Development

M.B.A., Finance — 1995
New York University, Stern School of Business, New York, New York, USA

B.S., Management — 1989
Tulane University, A.B. Freeman School of Business, New Orleans, Louisiana, USA

SUMMARY OF ACADEMIC AND PROFESSIONAL EXPERIENCE

Michigan State University — East Lansing, Michigan, USA
College of Agriculture and Natural Resources and MSU AgBio Research
Associate Professor, Department of Community Sustainability — 2013 – present
Assistant Professor, Department of Community Sustainability — 2007 – 2013

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

Centre for Rainforest Studies, School for Field Studies — 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, Department of Agricultural and Resource Economics — Fort Collins, CO, USA
Graduate Research Assistant, Instructor — 1999 – 2002

Oregon State University, Department of Agricultural and Resource Economics — Corvallis, OR, USA
Graduate Research Assistant — 1998 – 1999

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

A.T. Kearney — New York, NY and Washington, DC, USA
Senior Consultant — 1993 – 1995
Analyst — 1991 – 1993

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

SELECTED PUBLICATIONS

Peer-Reviewed Journal Articles

Waldman, 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. doi: 10.1016/j.ecolecon.2016.09.006.

Mulenga, 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. doi: 10.1016/j.jfe.2017.01.001.

Silberg, T., R. B. Richardson, M. Hockett, and S. S. Snapp. (2017). Food crop-legume intercropping in Central Malawi: Determinants of practice. *International Journal of Agricultural Sustainability*. doi: 10.1080/14735903.2017.1375070.

Silberg, 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. doi: 10.5539/jsd.v10n5p71.

Pearson, A. L., A. Rzotkiewicz, 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. doi: 10.1016/j.landusepol.2017.09.020.

Ghimire, 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. *International Journal of Agricultural Extension Education* 24(2): 137-151. doi: 10.5191/jiaee.2017.24210.

Ghimire, R., M. Suvedi, M. Kaplowitz, and R. B. Richardson. (2017). Extension professionals' perceptions of what they need for success: Core competencies as a means for improved agricultural extension education in Nepal. Forthcoming, *Journal of Education and Human Development*.

Hockett, M. and R. B. Richardson. (2017). Examining the Drivers of Agricultural Experimentation Among Smallholder Farmers in Malawi. In press, *Experimental Agriculture*. doi: 10.1017/S0014479716000673.

Waldman, K. B., D. L. Ortega, R. B. Richardson, D. Clay, and S. Snapp. (2016). Preferences for Legume Attributes in Maize-Legume Cropping Systems in Malawi. *Food Security* 8(6): 1087-1099. doi: 10.1007/s12571-016-0616-4.

Mungai, L., S. S. Snapp, J. 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. doi: 10.3389/fpls.2016.01720.

Ortega, D. L., K. B. Waldman, R. B. Richardson, D. 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. doi: 10.1016/j.worlddev.2016.06.007.

Holmes, T., J. M. Bowker, J. Englin, E. Hjerpe, J. B. Loomis, S. Phillips, and R. Richardson. (2016). A Synthesis of the Economic Values of Wilderness. *Journal of Forestry* 114(3): 320-328. doi: 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. Pomering, 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. doi: 10.1016/j.tourman.2014.08.009.

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. Pomering, 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. doi: 10.1016/j.tourman.2014.08.008.

Mulenga, 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. doi: 10.1017/S1355770X13000569.

Arvai, J., D. Kellon, R. León, R. Gregory, and R. 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. doi: 10.1007/s10669-014-9495-4.

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. 10.1016/j.esd.2012.07.007.

Richardson, R. B., D. Kellon, R. Leon, and J. L. Arvai. (2013). Using Choice Experiments to Understand Household Tradeoffs Regarding Pineapple Production and Environmental Management in Costa Rica. *Journal of Environmental Management* 127: 308-316. doi: 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. doi: 10.1007/s11187-012-9449-5.

Richardson, R. B., A. Fernandez, D. Tschirley, and G. Tembo. (2012). Wildlife Conservation in Zambia: Impacts on Rural Household Welfare. *World Development* 40(5): 1068-1081. doi: 10.1016/j.worlddev.2011.09.019.

Richardson, R. B. (2010). Ecosystem Services and Food Security: Economic Perspectives on Environmental Sustainability. *Sustainability* 2(11): 3520-3548. doi: 10.3390/su2113520.

Richardson, R. B. and K. Witkowski. (2010). Economic Vulnerability to Climate Change for Tourism-Dependent Nations. *Tourism Analysis* 15(3): 315-330. doi: 10.3727/108354210X12801550666105.

Bailey, 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. doi: 10.1057/thr.2010.14.

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.

Richardson, R. B., J. Loomis, and S. Weiler. (2007). Recreation as a Spatial Good: Distance Effects on Changes in Recreation Visitation and Benefits. *Review of Regional Studies* 36(3): 362-380.

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. doi: 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. doi: 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.

Richardson, R. B. and J. B. Loomis. (2004). Adaptive Recreation Planning and Climate Change: A Contingent Visitation Approach. *Ecological Economics* 50(1): 83-99. doi: 10.1016/j.ecolecon.2004.02.010.

SELECTED PUBLICATIONS, *continued*

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.

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.

Works in Progress

Bro, A., D. Ortega, D. C. Clay, and R. B. Richardson. 2017. Understanding farmer decision-making in their adaptation to climate change: The case of shade crop adoption among coffee farmers in Nicaragua. Submitted, *Agriculture, Ecosystems and Environment*.

Grabowski, P., L. Schmitt Olabisi, J. Adebiyi, K. Waldman, S. S. Snapp and R. B. Richardson. 2017. Assessing the potential for agricultural technology adoption using system dynamics and choice experiments: The case of perennial pigeonpea in Malawi. Submitted, *Ecological Economics*.

Mulenga, B., S. Tembo, and R. B. Richardson. 2017. Determinants of cooking fuel choice and charcoal consumption among urban households in Zambia. Submitted, *Energy for Sustainable Development*.

Nkonde, C., T. Jayne, R. B. Richardson, and F. Place. 2017. Revisiting the inverse farm size-productivity relationship: A case study of Zambia. Submitted, *World Development*.

Richardson, R. B. 2017. Sustainable development: Measuring socioeconomic well-being. In preparation.

Richardson, R. B. 2017. Nexus of food, energy, and water systems at the watershed scale. In: *The Food-Energy-Water Nexus: A Scholarly Introduction*, P. Saundry, ed. Forthcoming.

Richardson, R. B., and C. G. Flint. 2017. Propositions for the integration of social science with environmental science and policy. Submitted, *Environmental Management*.

Richardson, R. B., L. Schmitt Olabisi, K. B. Waldman, and N. Sakana. 2017. Using participatory system dynamics modeling of agricultural-environmental systems in a developing country context. In: *Innovations in Collaborative Modeling*, M. McNall, ed. Forthcoming, Michigan State University Press.

Richardson, R. B., L. Schmitt Olabisi, K. B. Waldman, and N. Sakana. 2017. Modeling the landscape-level implications of farm-level sustainable intensification in Zambia. In preparation.

Silberg, T., R. B. Richardson, and S. S. Snapp. 2017. Weed responses among cereal-legume cropping systems: A review of sub-Saharan Africa and evidence from Malawi. In preparation.

Subakanya, M., G. Tembo and R. B. Richardson. 2017. Land use plans and wildlife-inflicted crop damage in Zambia's Game Management Areas. Submitted, *Society and Natural Resources*.

Waldman, K. B. and R. B. Richardson. 2017. Crop duration and farmers' preferences for crop attributes in Mali. Submitted, *International Journal of Agricultural Sustainability*.

Books and Book Chapters

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* (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.

Richardson, R. B. (2013). Building a Green Economy: The Case for an Economic Paint Job. In *Building a Green Economy: Perspectives from Ecological Economics* (pp. 6-18), R. B. Richardson, ed. East Lansing, MI: Michigan State University Press.

SELECTED PUBLICATIONS, *continued*

Bessette, 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). A Contingent Behavior Analysis of the Effects of Climate Change on National Park Visitation. In *Frontiers in Ecological Economic Theory and Application*, J. D. Erickson and J. M. Gowdy, eds. Cheltenham, U.K. and Northampton, MA, U.S.A.: Edward Elgar Publishing.

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.

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

Richardson, R. B., M. Suvedi, M. Kaplowitz, S. Mith, and S. Bora. (2016). Cambodia HARVEST Aquaculture Program Evaluation. Project report. Phnom Penh, Cambodia: United States Agency for International Development. January 2016.

Snapp, S. S., R. B. Richardson, L. Schmitt-Olabisi, B. Basso, J. Messina, and E. Weltzien. (2015). Perennial Grain Crops for African Smallholder Farming Systems. Project report. Seattle, WA: Bill & Melinda Gates Foundation. October 2015.

Richardson, R. B., L. Schmitt Olabisi, N. Sakana, K. B. Waldman, and P. Grabowski. (2015). Impact of Sustainable Intensification on Landscapes and Livelihoods. Project report. Washington, DC: United States Agency for International Development. August 2015.

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. Project Report for Great Lakes Watershed Ecological Sustainability Strategy Phase II: Payments for Agricultural Ecosystem Services.

Mulenga, B. P., R. B. Richardson, and G. Tembo. (2012). Non-Timber Forest Products and Rural Poverty Alleviation in Zambia. Working Paper No. 62. Lusaka, Zambia: Indaba Agricultural Policy Research Institute. April 2012.

Mulenga, 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. Lusaka, Zambia: Food Security Research Project, Michigan State University. June 2011.

Mulenga, 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, Food Security Research Project, Lusaka, Zambia. September 2011.

Staatz, J. M., V. A. Kelly, D. H. Boughton, N. Dembele, M. Sohlberg, A. Berthé, M. Skidmore, C. O. Diarrah, A. Murekezi, R. B. Richardson, B. Simpson, S. Perakis, A. S. Diallo, R. Adjao, M. Sako, and N. Me-Nsopé. (2011). Mali Agricultural Assessment. USAID Mali. Bamako: United States Agency for International Development. April 2011.

Richardson, R. B. (2010). Tourism and Food Security in Mali. USAID Mali, Office of Economic Growth. Bamako: United States Agency for International Development. May 2010.

SELECTED PUBLICATIONS, *continued*

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. Policy Synthesis No. 37, Food Security Research Project, Lusaka, Zambia. February 2010.

Richardson, R. B. (2010). Ecosystem Services and Food Security: Economic Perspectives on Environmental Sustainability. MSU International Development Working Paper No. 110. East Lansing, MI: Department of Agricultural, Food, and Resource Economics and the Department of Economics, Michigan State University. December 2010.

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. Lusaka, Zambia: Food Security Research Project, Michigan State University. February 2010.

Fernandez, A., R. B. Richardson, D. Tschirley and G. Tembo. (2009). Wildlife conservation in Zambia: impacts on rural household welfare. Working Paper No. 41. Food Security Research Project, Michigan State University. September 2009.

Fernandez, 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, Food Security Research Project, Lusaka, Zambia. September 2009.

Richardson, R. B. (2009). Belize and Climate Change: The Costs of Inaction. 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. (2006). The Economic Value of Water for Ecosystem Preservation: Valuing Freshwater Inflows. Houston, TX: Houston Advanced Research Center.

Richardson, R. B. 2005. The Economic Benefits of California Desert Wildlands. San Francisco, CA: The Wilderness Society.

Richardson, R. B. (2005). Socioeconomic Analysis of Fisheries Resources: Building Capacity for Community-Based Resource Management. Portland, OR: Ecotrust.

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.

SELECTED PUBLICATIONS, *continued*

Nkonde, C., T. Jayne, R. B. Richardson, and F. Place. (2015). Farm size and productivity relationship: Evidence from Zambia using alternative productivity measures and a wide range of farm sizes. Presented at the Annual World Bank Conference on Land and Poverty, March 23, 2015, Washington, DC.

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. (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. *Ecological Economics* 131: 584-585. doi: 10.1016/j.ecolecon.2016.08.031.

Silberg, 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. *Agricultural Systems* 135: 141-142. doi: 10.1016/j.agsy.2015.01.001.

Reference Materials

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.

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.

SELECTED GRANTS AND CONTRACTS

- Alliance for African Partnerships. Energy Security for Sustainable Livelihoods in Southern Africa. $100,000, 2017-2018. Principal investigator, with Cloé Garnache, Pascal Nzokou, and Leo 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 Sieglinde Snapp, Regis Chikowo, and Joseph Messina.
- 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 Cloé Garnache, Maria Claudia Lopez, Amber Pearson, and Adam Zwickle.
- U.S. Agency for International Development. Africa RISING: Global Climate Change and Biodiversity in Zambia. $375,000, 2014-2018. Principal investigator, with Laura Schmitt 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 Sieglinde 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 Sieglinde Snapp.
- Bill and Melinda Gates Foundation. Perennial Grain Crops for African Smallholder Farming Systems. $1,500,000, 2013-2015, Co-PI, with Sieglinde Snapp, Joseph Messina, Bruno Basso, and Laura Schmitt Olabisi.
- U.S. Agency for International Development. $564,397, 2012-2015. Integrating Nutrition in Value Chains – Malawi. Co-PI, with Daniel Clay, Mywish Maredia, Murari Suvedi, Anne Ferguson, and David Ortega.
- U.S. Agency for International Development. $355,212, 2013-2014. USAID Initiative for Long-Term Training and Capacity Building – Malawi. Co-PI, with Murari Suvedi, Michael Kaplowitz, and Matt 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 Rui Benfica, Duncan Boughton, Kimberly Chung, Michael Kaplowitz, Murari Suvedi, and Veronique Theriault.
- 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 Scott Swinton, John Kerr, and Robert Shupp.
- Alaska Department of Fish and Game. $364,850, 2012-2013. The Economic Importance of Wildlife to Alaska. With Ernie Niemi, Mark Buckley, and Sarah 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 Joseph Arvai, John Kerr, and Robin 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 Thomas Jayne, David Tschirley, and Michael 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 Thomas Jayne, David Tschirley, and Michael 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 Daniel 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.

SELECTED GRANTS AND CONTRACTS, *continued*

- 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 the Rio Grande Estuary.
- The Wilderness Society. $45,000, 2002-2005. Economic Benefits of Wilderness Designation in California.

SELECTED PRESENTATIONS

Invited Presentations

"Integration of social sciences in environmental health research," with Courtney Flint, U.S. Environmental Protection Agency, Office of Research and Development, Research Triangle Park, NC, October 4-5, 2016.

"Social and behavioral sciences: Contributions to environmental policy and practice," with Courtney 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 Laura Schmitt Olabisi, Agrilinks webinar, U.S. Agency for International Development, https://agrilinks.org/, June 16, 2016.

"Integrating research and teaching in global sustainable development," seminar series, Department of Sustainable Development, Appalachian State University, Boone, NC, October 14, 2015.

"Estimating demand for perennial pigeon pea in Malawi using choice experiments," seminar series, Department of Economics, Appalachian State University, Boone, NC, October 9, 2015.

"Rural household participation in markets for non-timber forest products in Zambia," with Brian P. Mulenga, Hanover Seminar Series, Department of Forestry, Michigan State University, December 3, 2013.

"Understanding household tradeoffs regarding pineapple production and environmental management in Costa Rica," School of Environment and Natural Resources Seminar Series, The Ohio State University, Columbus, OH, November 14, 2013.

"Building resilience and adaptive capacity for water and food security," Water, Food Security, and the Developing Global Crisis Conference, United Nations 68th Anniversary Program, Michigan State University, October 29, 2013.

"Woodfuels, livelihoods, and food security: Evidence from sub-Saharan Africa," Sustainable Energy for Sustainable Development Conference, United Nations 67th Anniversary Program, Michigan State University, October 22, 2012.

"Seeing the forest for the fuel and food: Non-timber forest products and rural development in Zambia," Brown Bag Seminar Series, Department of Agricultural, Food and Resource Economics, Michigan State University, April 10, 2012.

"Seeing the forest for the fuel and food: Rural poverty and forest sustainability in sub-Saharan Africa," invited presentation for the International Resource Industries and Sustainability Institute seminar series, University of Calgary, Calgary, Alberta, Canada, February 29, 2012.

"The economic value of wilderness," Confronting Wilderness: Human Interactions With Nature, Sharper Focus, Wider Lens Series, MSU Honors College, January 30, 2012.

"Measuring the effects of natural resource conservation policies on household Welfare," Brown Bag Seminar Series, Department of Agricultural, Food and Resource Economics, Michigan State University, November 10, 2009.

"Climate change and the costs of inaction: Issues for human development," Center for the Advanced Study of International Development Seminar Series, Michigan State University, November 6, 2009.

"Tourism and climate change: Vulnerability and adaptation," Third International Conference on Responsible Tourism, International Centre for Responsible Tourism, Belmopan, Belize, October 20, 2009.

SELECTED PRESENTATIONS, *continued*

"Tourism and wildlife conservation in Africa: Measuring the impacts to rural households," Brown Bag Seminar Series, Department of Agricultural, Food and Resource Economics, Michigan State University, November 18, 2008.

Commencement address, invited speaker for the commencement ceremony, Galen University, San Ignacio, Belize, October 4, 2008.

"Wildlife conservation and rural development in Zambia," invited presentation for the Seminar Series of the Department of Agricultural and Resource Economics, Colorado State University, Fort Collins, CO, September 24, 2008.

"Sustainable development and food security: The African context," invited panelist, 16th Review Session of the UN Commission on Sustainable Development, United Nations Headquarters, New York, NY, May 9, 2008.

"Socioeconomic vulnerability to climate change: Communities along the Mesoamerican Barrier Reef," Center for Latin American and Caribbean Studies, Michigan State University, November 28, 2007.

"Climate change and ecotourism: Challenges and opportunities," North American Ecotourism Conference, The International Ecotourism Society, Madison, WI, September 27, 2007.

"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" presented at the Climate Change and Tourism workshop. Belize City, Belize, September 17, 2007.

"Community-based resource management in coastal communities," Invited Speaker, 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," Invited Speaker, Regional Symposium on Information Sharing in Climate Change and Sustainable Development, CARICOM Climate Change Centre, Belmopan, Belize, September 2005.

"The effects of climate change on mountain tourism," invited speaker, UN World Tourism Organization, International Conference on Climate Change and Tourism, Djerba, Tunisia, April 2003.

Presentations at Academic and Professional Conferences

"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, BC. 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, BC. October 2, 2015.

"The economic benefits of wilderness: Transforming the debate," National Wilderness Conference, Albuquerque, NM, October 17, 2014.

"Participatory approaches for enhancing rural food security and community resilience," Resilience 2014 – Resilience and Development: Mobilizing for Transformation, Montpellier, France, May 6, 2014.

"Climbing down the energy ladder: Biophysical limitations of expanded wood fuel use in sub-Saharan Africa," biennial meeting of the U.S. Society for Ecological Economics, Burlington, VT, June 12, 2013.

"Rural development and non-timber forest products: Perspectives on poverty alleviation," International Symposium on Society and Resource Management, Edmonton, Alberta Canada, June 18, 2012.

"The impact of wildlife conservation on rural development in Zambia," with A. Fernandez and D. L. Tschirley, Regional Science Association International, San Francisco, CA, November 19, 2009.

SELECTED PRESENTATIONS, *continued*

"The impact of wildlife conservation on rural welfare in Zambia," biennial meeting of the U.S. Society for Ecological Economics, Washington, DC, June 1, 2009.

"Market and trade reform for adaptation to climate change," biennial meeting of the International Society for Ecological Economics, Nairobi, Kenya, August 8-11, 2008.

"Sustainable tourism and natural resources: Distribution of economic benefits," International Symposium on Society and Resource Management, Burlington, VT, June 13, 2008.

"Charcoal and fuelwood production in Zambia: Implications for poverty reduction," 54th Annual North American Meetings of the Regional Science Association International, Savannah, GA, November 8, 2007.

"Valuing ecosystem services in deserts," biennial meeting of the U.S. Society for Ecological Economics, New York, NY, June 26, 2007.

"Assessing economic vulnerability to climate change: A conceptual framework for developing countries," Center for Natural Resource Economics & Policy, 2nd National Forum on Research in Coastal Systems. New Orleans, LA, May 21, 2007.

"Economic vulnerability to climate change for tourism-dependent nations," Sir Arthur Lewis Institute of Social & Economic Studies (SALISES), University of West Indies, 8th Annual Conference, Crisis, Chaos and Change: Caribbean Development Challenges for the 21st Century. Trinidad, March 2007.

"The economic vulnerability of mountain communities to climate change," biennial meeting of the U.S. Society for Ecological Economics, Saratoga Springs, NY, May 2003.

"Measuring the effects of climate change on recreation demand and benefits," Northeastern Recreation Research Symposium, Bolton Landing, NY, April 2003.

"Measuring the impact of resource changes on visitation at national parks," Rocky Mountain National Park Research Conference, Estes Park, CO, April 2002.

"A contingent behavior methodology for estimating the effects of climate change on ecotourism," biennial meeting of the International Society for Ecological Economics, Sousse, Tunisia, March 2002.

"The impact of climate change and population growth on visitation at Rocky Mountain National Park: A comparative risk analysis," inaugural meeting of the U.S. Society for Ecological Economics, Duluth, MN, July 2001.

"Comprehensive analysis of the economic benefits of wilderness," biennial meeting of the International Society for Ecological Economics, Canberra, Australia, July 2000.

"Economic values of protecting roadless areas in the United States," presented at the 2000 California Wilderness Conference, Sacramento, CA, May 2000.

Posters Presented at Academic and Professional Conferences

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.

SELECTED PRESENTATIONS, *continued*

Outreach

"Characterizing the range of uses and values of freshwater coastal dunes," Michigan Environmental Council, Freshwater Dune Summit, Muskegon, Michigan, 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, Michigan, June 10, 2014.

"Climate change and tourism systems: Implications for the Great Lakes Region," Minnesota Sea Grant, University of Minnesota-Duluth. Duluth, Minnesota, 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, 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, Michigan, 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, Lansing, 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.

TEACHING EXPERIENCE

Michigan State University — East Lansing, Michigan

- CSUS 300 – Theoretical Foundations of Sustainability — 2017
- CSUS 824 – Sustainable Development: Measuring Socio-Economic Well Being — 2009-17
- CSUS 310 – History of Environmental Thought and Sustainability — 2014-17
- ESA 200 – Introduction to Environmental Studies and Agriscience — 2012
- PRR 302 – Environmental Attitudes and Concepts — 2011-13
- EEP 320 – Environmental Economics — 2008-10
- ACR 800 – Foundations of Community, Agriculture, Recreation and Resource Studies — 2008-09
- PRR 474 – The Tourism System — 2008-09
- PRR 840 – Recreation and Tourism Economics — 2007
- PRR 815 – Parks and Recreation Program Services — 2007

TEACHING EXPERIENCE, *continued*

Galen University — San Ignacio, Belize
- ESCI 199 – Introduction to Sustainable Development — 2005-06
- 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 — Queensland, Australia
- EE(SS) 302 – Environmental Economics and Policy — 2003-04
- 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

"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.

"Ecosystem Services and Food Security," CSS 892B: Ecological Food and Farming Systems Seminar, October 27, 2014.

"Ecosystem Services and Biodiversity in Agricultural Systems," FOR 840: Agroforestry Systems, October 7 & 9, 2014.

"Sustainability and the Economic Problem," EEP 320: Environmental Economics, February 20, 2014.

"Sustainable Development and the Problem of Economics," ACR 800: Foundations in Community, Agriculture, Recreation and Resource Studies, November 13, 2013.

"Agriculture and Globalization," CSS 431: International Agricultural Systems, April 3, 2013.

"Sustainability and the Economic Problem," EEP 320: Environmental Economics, February 19, 2013.

"Woodfuels, Deforestation, and Food Security in Sub-Saharan Africa," NSC 192: Environmental Issues Seminar, November 27, 2012.

"Sustainable Development and the Problem of Economics," ACR 800: Foundations in Community, Agriculture, Recreation and Resource Studies, October 31, 2012.

"Sustainability and the Economic Problem," EEP 320: Environmental Economics, February 21, 2012.

"Sustainable Tourism and Rural Development in Africa," PRR 474: The Tourism System, October 26, 2011.

"Globalization and Sustainability," MC 181: Introduction to Science, Technology, and Environmental Policy, October 13, 2011.

INVITED LECTURES, *continued*

"Environment and Sustainable Development," ACR 826: International Development, September 20, 2011.

"Ethical Issues in Environmental Economics," PHL 310: Environmental Ethics course, Portland State University, May 9, 2011.

"Valuation of Ecosystem Services," USP 490/590: Green Economics and Sustainable Development course, Portland State University, April 28, 2011.

"Sustainable Tourism in Zambia," PRR 474: The Tourism System, October 27, 2010.

"Economic Values of Wilderness," PRR 211: Introduction to Natural Resource Recreation, October 26, 2010.

"Economic Vitality in Sustainability," ACR 187: Introduction to Sustainability, October 12, 2010.

"Economic Decisions in Tourism," PRR 214: Introduction to Travel and Tourism, February 2, 2010.

"Economic Lenses in Sustainability," NSC 491: Global Sustainability for a Shrinking Planet, March 17, 2009.

"Non-Market Valuation Methods in Ecological Economics," ACR 802: Survey of Research Methods, October 29, 2008.

"Survey Research Methods in Economics," ACR 802: Survey of Research Methods, October 17, 2007.

"Economic Perspectives on Tourism Research," PRR 874: Leisure, Travel and Tourism, January 25, 2007.

"Environmental Sustainability," RD 823: Community-Based Natural Resource Management in Developing Countries, January 23, 2007.

GRADUATE STUDENT SUPERVISION AND ADVISING

Michigan State University

Post-doctoral research associate supervisor

- Philip Grabowski, Sustainable intensification, landscapes, and livelihoods — Apr. 2014 – May 2015
- Naomi Sakana, Sustainable intensification, landscapes, and livelihoods — July 2014 – Aug. 2015
- Kurt Waldman, Perennial grains for Africa — Apr. 2014 – Aug. 2015

Ph.D. advisor and chairperson

- Nathan Brugnone, Modeling food systems — Exp., May 2020
- Timothy Silberg, Sustainable intensification of agriculture in southern Africa — Exp., Aug. 2018
- Ryan Vroegindewey, Agribusiness development and dairy value chain analysis in Mali — Exp., Aug. 2018
- Chewe 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) — January 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

GRADUATE STUDENT SUPERVISION AND ADVISING, *continued*

- 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

Ph.D. guidance committee

- Diana Copeland, Community Sustainability — Exp., May 2020
- Ronak Sripal, Fisheries and Wildlife — Exp., May 2020
- Jelili Adebiyi, Community Sustainability — Exp., May 2018
- Socheat Keo, Community Sustainability — Exp., May 2018
- Syed Hamza Haider, Agricultural, Food and Resource Economics — Exp., May 2018
- 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
- 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
- Mukesh Ray, Agricultural, Food, and Resource Economics (Three essays in development economics) — December 2015
- Miltone 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

- Benjamin Schram, Forestry — Exp., Dec. 2017
- Kyle Clothier, Peace Corps Master's International program, Benin — Exp., Dec. 2017
- David Olson, Agricultural, Food, and Resource Economics — Exp., Dec. 2017
- 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

GRADUATE STUDENT SUPERVISION AND ADVISING, *continued*

- 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) — November 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
- 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 and Applied Economics Association

External academic advising (in service at Michigan State University)

- 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

GRADUATE STUDENT SUPERVISION AND ADVISING, *continued*

Galen University

Masters degree student projects supervised

- August, Freya, Economics (Alternate exchange rate regimes in Belize) May 2006
- Lui, Harry, Economics (Assessment of the financing of higher education in Belize) May 2006
- Rosado, Cindy, Economics (Impact of economic integration on foreign investment) August 2006

SERVICE AND MEMBERSHIPS IN PROFESSIONAL SOCIETIES

Professional service

- U.S. Environmental Protection Agency, Board of Scientific Counselors 2014 – 2017
  Chairperson, Sustainable and Healthy Communities subcommittee
- Michigan Environmental Council 2014 – 2015
  Project Advisory Committee, "Bringing the Latest Science to Michigan's Management of Our Coastal Dunes," funded by Michigan Department of Environmental Quality
- Panelist, National Geographic Center for Sustainable Destinations 2007 – 2009

Professional associations

- International Society for Ecological Economics 2000 – present
  Member, Education Committee 2003 – 2005
  Session chair, 2008 conference 2008
- U.S. Society for Ecological Economics 2001 – present
  Chairperson, Scientific Committee, 2017 conference 2016 – 2017
  Secretary-Treasurer 2009 – 2015
  Chairperson, Conference Committee, 2011 conference 2010 – 2011
  Member, scientific committee; session chair, 2009 conference 2009
- 5th World Sustainability Forum, Scientific Advisory Committee 2015
- E3 Network: Economics for Equity and the Environment 2007 – present

Academic and scientific journals

- Associate Editor, *Environmental Management* 2014 – present
- Associate Editor, *Journal of Natural Resources Policy Research* 2015 – present
- Associate Editor, *Society and Natural Resources* 2010 – present
- 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
- *Ad hoc* reviewer: *Agroforestry Systems*; *Climate Research*; *Climatic Change*; *Conservation Biology*; *Ecological Economics*; *Economic Development Quarterly*; *Ecosystem Services*; *Energy for Sustainable Development*; *Environmental Conservation*; *Environmental Management*; *Forests, Trees, and Livelihoods*; *Global Environmental Change*; *Journal of Environmental Management*; *Food Security*; *Journal of Leisure Research*; *Journal of Sustainable Tourism*; *PLOS ONE*; *Risk Analysis*; *Tourism Economics*; *Tourism Geographies*; *Tourism Management*; and *World Development*

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
- Reviewer, textbook, John Wiley & Sons, Inc. 2009
- Reviewer, Northeast Michigan Integrated Assessment, Michigan Sea Grant 2008

UNIVERSITY SERVICE

Michigan State University

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

UNIVERSITY SERVICE, *continued*

Michigan State University, Department of Community Sustainability

- Member, Faculty Advisory Committee 2017 – 2020
- Member, Department Chairperson Search Committee 2016 – 2017
- Coordinator, Peace Corps Master's International program 2008 – 2016
- Graduate Affairs and Curriculum Committee
  - Chairperson 2014 – 2015
  - Member 2013 – 2014
  - Chairperson 2008 – 2010
  - Member 2007 – 2008
- Member, Faculty Advisory Committee 2011 – 2013
- Member, Undergraduate Curriculum Working Group 2011 – 2012
- Coordinator, Sustainable Development in Belize (study abroad program) 2008 – 2011

OTHER APPOINTMENTS

Visiting Professor, Department of Economics, Appalachian State University 2015 – 2016
Visiting Professor, Institute of Resource Assessment, University of Dar es Salaam, Tanzania 2015 – 2016
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

MISCELLANEOUS

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