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AREAS OF INTEREST

Community and landscape ecology, ecosystem services, ecological economics, conservation biology, environmental policy, biogeography

PROFESSIONAL APPOINTMENTS

University of Vermont

Director, Gund Institute for Environment 2017-present

Director, Gund Institute for Ecological Economics 2011-2017

Gund Professor, Rubenstein School for Natural Resources & Environ. 2011-present

World Wildlife Fund – USA

Senior Fellow 2011-2016

Managing Director, Conservation Science Program 2008-2011

Director, Conservation Science Program 2002-2008

University of Maryland, Department of Biology

2003-2011

Adjunct Assistant Professor

Stanford University

2000-2002

Post-doctoral researcher, Biological Sciences

Zegrahm Expeditions

1991-1995

Lecturer and Expedition Leader for remote nature tours

EDUCATION

Stanford University: Ph.D. in Biological Sciences 2000

(Committee: Paul Ehrlich, Gretchen Daily, Hal Mooney, Peter Vitousek)

Dartmouth College: B.A. magna cum laude in Earth Sciences, Environ. Studies 1991

PUBLICATIONS

Books

Fisher, B., R. Naidoo, **T.H. Ricketts** (2014). *A field guide to economics for conservationists*. Roberts & Co. 185 pp.

Kareiva, P., H. Tallis, **T.H. Ricketts**, G.C. Daily, & S. Polasky, eds. (2011). *Natural capital: Theory and practice of mapping ecosystem services*. Oxford University Press. 432 pp.

National Research Council of the National Academies (2006). *Status of pollinators in North America*. National Academies Press, Washington, D.C. 322 pp.

Burgess, N. D., J. A. D' Amico Hales, E. Underwood, E. Dinerstein, D. Olson, J. Schipper, **T.H. Ricketts**, I. Itoua and K. Newman (2004). *Terrestrial ecoregions of Africa and its islands: a conservation assessment*. Island Press, Washington D.C. 544 pp.

Alcamo, et al. (2003). *Ecosystems and human well-being: A framework for assessment*. Island Press. Washington DC. 245 pp.

Ricketts, T.H., E. Dinerstein, D.M. Olson, C.J. Loucks, W. Eichbaum, K. Kavanagh, P. Hedao, P. Hurlley, K.M. Carney, R. Abell, and S. Walters (1999). *Ecoregions of North America: A conservation assessment*. Island Press. Washington DC. 485 pp.

Peer-reviewed journal articles and book chapters

2019

Watson, K.B., G.L. Galford, L.J. Sontter, I. Koh, **T.H. Ricketts** (2019). Effects of human demand on conservation planning for biodiversity and ecosystem services.

Conservation Biology 33:942-952. <https://doi.org/10.1111/cobi.13276>

Schwartz, A.J., P.S. Dodds, J.P.M. O'Neil-Dunne, C.M. Danforth, **T.H. Ricketts** (2019). Visitors to urban greenspace have higher sentiment and lower negativity on Twitter.

People and Nature 00:1-10. <https://doi.org/10.1002/pan3.10045>

Naidoo, R., D. Gerkey, D. Hole, A. Pfaff, A.M. Ellis, C.D. Golden, D. Herrera, K.

Johnson, M. Mulligan, **T.H. Ricketts**, B. Fisher (2019). Evaluating the impacts of protected areas on human well-being across the developing world. Science

Advances 5:eaav3006. DOI: 10.1126/sciadv.aav3006

Chain-Guadarrama A., A. Martínez-Salinas, N. Aristizábal, **T.H. Ricketts** (2019).

Ecosystem services by birds and bees to coffee in a changing climate: A review of coffee berry borer control and pollination. Agriculture, Ecosystems & Environment

280:53-67. <https://doi.org/10.1016/j.agee.2019.04.011>

Ruhl J.B., S.M. Posner, **T.H. Ricketts** (2019). Engaging policy in science writing:

Patterns and strategies. PloS one 14(8):e0220497.

<https://doi.org/10.1371/journal.pone.0220497>

Grima N., B. Fisher, **T.H. Ricketts**, L.J. Sontter (2019). Who benefits from ecosystem

services? Analysing recreational moose hunting in Vermont, USA. Oryx 1-9.

<https://doi.org/10.1017/S003060531800145X>

Nicholson, C.C., **T.H. Ricketts** (2019). Wild pollinators improve production, uniformity,

and timing of blueberry crops. Agriculture, Ecosystems & Environment 272:29-37.

<https://doi.org/10.1016/j.agee.2018.10.018>

Singh, N.K., J. Gourevitch, B.C. Wemple, K.B. Watson, D.M. Rizzo, S. Polasky, **T.H.**

Ricketts (2019). Optimizing wetland restoration to improve water quality at a

regional scale. Environmental Research Letters 14: 064006.

<http://doi.org/10.1088/1748-9326/ab1827>

Nicholson, C.C., **T.H. Ricketts**, I. Koh, H.G. Smith, E.V. Lonsdorf, O. Olsson (2019).

Flowering resources distract pollinators from crops: Model predictions from

landscape simulations. Journal of Applied Ecology 56:618-628.

<https://doi.org/10.1111/1365-2664.13333>

Fisher, B., D. Herrera, D. Adams, H.E. Fox, L. Gallagher, D. Gerkey, D. Gill, C.D.

Golden, D. Hole, K. Johnson, M. Mulligan, S.S. Myers, R. Naidoo, A. Pfaff, R.

Rasolofoson, E. Selig, D. Tickner, T. Treuer, **T.H. Ricketts** (2019). Can nature

deliver on the sustainable development goals? The Lancet Planetary Health 3:e112-

e113. [https://doi.org/10.1016/S2542-5196\(18\)30281-X](https://doi.org/10.1016/S2542-5196(18)30281-X)

Williams, N.M, R. Isaacs, E. Lonsdorf, R. Winfree, **T.H. Ricketts** (2019). Building

resilience into agricultural pollination using wild pollinators. in Gardner, S., S.

Ramsden, R. Hails (eds). *Agricultural Resilience: perspectives from ecology and economics*. Cambridge University Press.

2018

- Rasolofoson, R.A., M.M. Hanauer, A. Pappinen, B. Fisher, **T.H. Ricketts** (2018). Impacts of forests on children's diet in rural areas across 27 developing countries. *Science Advances* 4:(8), eaat2853. DOI: 10.1126/sciadv.aat2853
- Rasolofoson R., M. Hanauer, A. Pappinen, B. Fisher, **T.H. Ricketts** (2018). Effects of forests on children's diets in developing countries: a cross-sectional study. *The Lancet Planetary Health* 2, S15. [https://doi.org/10.1016/S2542-5196\(18\)30100-1](https://doi.org/10.1016/S2542-5196(18)30100-1)
- Gourevitch, J.D., B.L. Keeler, **T.H. Ricketts** (2018). Determining socially optimal rates of nitrogen fertilizer application. *Agric. Ecosyst. Environ.* 254, 292–299. <https://doi.org/10.1016/j.agee.2017.12.002>
- Singh, N.K., B.C. Wemple, A. Bomblies, **T.H. Ricketts** (2018). Simulating stream response to floodplain connectivity and revegetation from reach to watershed scales: Implications for stream management. *Sci. Total Environ.* 633, 716–727. <https://doi.org/10.1016/j.scitotenv.2018.03.198>
- Mokondoko, P., R.H. Manson, **T.H. Ricketts**, D. Geissert (2018). Spatial analysis of ecosystem service relationships to improve targeting of payments for hydrological services. *PLoS One* 13, e0192560. <https://doi.org/10.1371/journal.pone.0192560>
- Sonter, L.J., J. Gourevitch, I. Koh, C.C. Nicholson, L.L. Richardson, A.J. Schwartz, N.K. Singh, K.B. Watson, M. Maron, **T.H. Ricketts** (2018). Biodiversity offsets may miss opportunities to mitigate impacts on ecosystem services. *Front. Ecol. Environ.* 16, 143–148. <https://doi.org/10.1002/fee.1781>
- Byerly, H., A. Balmford, P.J. Ferraro, C. Hammond Wagner, E. Palchak, S. Polasky, **T.H. Ricketts**, A.J. Schwartz, B. Fisher (2018). Nudging pro-environmental behavior: evidence and opportunities. *Front. Ecol. Environ.* 16, 159–168. <https://doi.org/10.1002/fee.1777>
- Rieb, J.T., R. Chaplin-Kramer, G.C. Daily, P.R. Armsworth, K. Böhning-Gaese, A. Bonn, G.S. Cumming, F. Eigenbrod, V. Grimm, B.M. Jackson, A. Marques, S.K. Pattanayak, H.M. Pereira, G.D. Peterson, **T.H. Ricketts**, B.E. Robinson, M. Schröter, L.A. Schulte, R. Seppelt, M.G. Turner, E.M. Bennett (2018). Response to Kabisch and Colleagues. *Bioscience* 68: 167-168. <https://doi.org/10.1093/biosci/bix154>

2017

- Nicholson, C.C., I. Koh, L. Richardson, A. Beauchemin, **T.H. Ricketts** (2017). Farm and landscape factors interact to affect the supply of pollination services. *Agric. Ecosyst. Environ.* 250, 113–122.
- Ricketts, T.H.**, D. Hererra, A. Ellis, B. Fisher (2017). Watersheds, forests, and childhood health: global relationships and policy opportunities. *Lancet* 389, S17.
- Koh, I., E. Lonsdorf, D.R. Artz, T.L. Pitts-Singer, **T.H. Ricketts** (2017). Ecology and economics of using native managed bees for almond pollination. *J. Economic Entomology* 1–10. <https://doi.org/10.1093/jee/tox318>
- Rieb, J.T., R. Chaplin-Kramer, G.C. Daily, P.R. Armsworth, K. Böhning-Gaese, A. Bonn, G.S. Cumming, F. Eigenbrod, V. Grimm, B.M. Jackson, A. Marques, S.K.

- Pattanayak, H.M. Pereira, G.D. Peterson, **T.H. Ricketts**, B.E. Robinson, M. Schröter, L.A. Schulte, R. Seppelt, M.G. Turner, E.M. Bennett (2017). When, where, and how nature matters for ecosystem services: Challenges for the next generation of ecosystem service models. *Bioscience* 67, 820-833.
<https://doi.org/10.1093/biosci/bix075>
- Imbach, P., E. Fung, L. Hannah, C.E. Navarro-Racines, D.W. Roubik, **T.H. Ricketts**, C.A. Harvey, C.I. Donatti, P. Läderach, B. Locatelli, P.R. Roehrdanz (2017). Coupling of pollination services and coffee suitability under climate change. *Proc. Natl. Acad. Sci. USA*. 114, 1–5.
- Herrera, D., A. Ellis, B. Fisher, C.D. Golden, K. Johnson, M. Mulligan, A. Pfaff, T. Treuer, **T.H. Ricketts** (2017). Upstream watershed condition predicts rural children's health across 35 developing countries. *Nature Communications* 8, 811.
<https://doi.org/10.1038/s41467-017-00775-2>
- Fisher B., D. Herrera, D. Adams, H.E. Fox, D.A. Gill, C.D. Golden, M. Mulligan, S.S. Myers, A. Pfaff, E.R. Selig, **T.H. Ricketts** (2017). Effect of coastal marine protection on childhood health: an exploratory study. *The Lancet* 389 (2), S8.
[https://doi.org/10.1016/S0140-6736\(17\)31120-0](https://doi.org/10.1016/S0140-6736(17)31120-0)
- Sonter, L.J., J.A. Johnson, C.C. Nicholson, L.L. Richardson, K.B. Watson, **T.H. Ricketts** (2017). Multi-site interactions: Understanding the offsite impacts of land use change on the use and supply of ecosystem services. *Ecosystem Services* **23**:158-164

2016

- Ricketts, T.H.**, K.B. Watson, I. Koh, A.M. Ellis, C.C. Nicholson, S. Posner, L.L. Richardson, L.J. Sonter (2016). Disaggregating the evidence linking biodiversity and ecosystem services. *Nature Communications* 7:13106.
 Doi:10.1038/ncomms13106
- Watson, K.B., **T.H. Ricketts**, G. Galford, S. Polasky, J. O’Niel-Dunne (2016). Quantifying flood mitigation services: The economic value of Otter Creek wetlands and floodplains to Middlebury, VT. *Ecological Economics* 130:16-24.
- Sonter, L.J., K.B. Watson, S.A Wood, **T.H. Ricketts** (2016). Spatial and temporal dynamics and value of nature-based recreation, Estimated via social media. *PLoS One*.11, e0162372 (2016).
- Koh, I., E.V. Lonsdorf, N.M. Williams, C. Brittain, R. Isaacs, J. Gibbs, & **T.H. Ricketts** (2016) Modeling the status, trends, and impacts of wild bee abundance in the United States. *PNAS* 113(1):140-145. DOI: 10.1073/pnas.1517685113
- Posner, S.M., C. Getz, **T.H. Ricketts** (2016). Evaluating the impact of ecosystem service assessments on decision-makers. *Environmental Science & Policy* 64:30-37.
- Posner, S.M., E. McKenzie, **T.H. Ricketts** (2016). Policy impacts of ecosystem services knowledge. *PNAS* 113(7):1760-1765.
- Posner, S., G. Verutes, I. Koh, D. Denu, & **T.H. Ricketts** (2016) Global use of ecosystem service models. *Ecosystem Services* 17:131–141.
- Galford, G. and **T.H. Ricketts** (2016). Chapter 25: Ecosystem services: Provisioning. In Potschin, M. et al. (eds) *Routledge Handbook of Ecosystem Services*. Earthscan Press:London. pp. 315-327.
- Bayles, B.R., K.A. Brauman, J.N. Adkins, B.F. Allan, A.M. Ellis, T.L. Goldberg, C.D. Golden, D.S. Grigsby-Toussaint, S.S. Myers, S.A. Osofsky, **T.H. Ricketts**, J.B.

Ristaino (2016). Ecosystem services connect environmental change to human health outcomes. *EcoHealth* 13(3): 443-449.doi:10.1007/s10393-016-1137-5

2015

- Garibaldi, L. A., I. Bartomeus, R. Bommarco, A.M. Klein, S.A. Cunningham, M.A. Aizen, V. Boreux, M.P.D. Garratt, L.G. Carvalheiro, C. Kremen, C.L. Morales, C. Schuepp, N.P. Chacoff, B.M. Freitas, V. Gagic, A. Holzschuh, B.K. Klatt, K.M. Krewenka, S. Krishnan, M.M. Mayfield, I. Motzke, M. Otieno, J. Petersen, S.G. Potts, **T.H. Ricketts**, M. Rundlof, A. Sciligo, P.A. Sinu, I. Steffan-Dewenter, H. Taki, T. Tscharrntke, C.H. Vergara, B.F. Viana, M. Woyciechowski. (2015) Trait matching of flower visitors and crops predicts fruit set better than trait diversity. *Journal of Applied Ecology* 52(6) 1436-1444
- Guerry, A.D., S. Polasky, J. Lubchenco, R. Chaplin-Kramer, G.C. Daily, R. Griffin, M. Ruckelshaus, I.J. Bateman, A. Duraiappah, T. Elmqvist, M.W. Feldman, C. Folke, J. Hoekstra, P.M. Kareiva, B.L. Keeler, S. Li, E. McKenzie, Z. Ouyang, B. Reyers, **T.H. Ricketts**, J. Rockström, H. Tallis, B. Vira. (2015). Natural capital and ecosystem services informing decisions: From promise to practice. *PNAS* 112(24): 7348-7355.
- Kleijn, D. et al. [62 authors] (2015). Delivery of crop pollination services is an insufficient argument for wild pollinator conservation. *Nature Communications* 6. doi:10.1038/ncomms8414
- Armsworth, P.R., E.R. Larson, S.T. Jackson, D.F. Sax, P. Simonin, B. Blossey, N. Green, M.L. Klein, L. Lester, **T.H. Ricketts**, M.C. Runge, M.R. Shaw (2015). Are conservation organizations configured for effective adaptation to climate change? *Frontiers in Ecology and Environment*. doi:10.1890/130352
- Ellis, A.M., S.S. Myers, **T.H. Ricketts** (2015). Do pollinators contribute to nutritional health? *PLoS ONE* 10(1): e114805. doi:10.1371/ journal.pone.0114805
- Aburto-Oropeza, O., E. Ezcurra, J. Moxley, A. Sanchez-Rodriguez, I. Mascarenas-Osorio, C. Sanchez-Ortiz, B. Erisman, **T.H. Ricketts** (2015). A framework to assess the health of rocky reefs linking geomorphology, community assemblage, and fish biomass. *Ecological Indicators* 52: 353-361.

2014

- Redford, K. H., S.S. Myers, **T.H. Ricketts**, S.A. Osofsky (2014). Human health as a judicious conservation opportunity. *Conservation Biology*. DOI: 10.1111/cobi.12290.
- Bhagabati, N.K., **T.H. Ricketts**, T. Barano, M. Conte, C. Ennaanay, O. Hadian, E. McKenzie, N. Olwero, A. Rosenthal, H. Tallis, S. Wolny (2014). Ecosystem services reinforce Sumatran tiger conservation in land use plans. *Biological Conservation* 169:147-156.

2013

- Ruckelshaus, M., E. McKenzie, H. Tallis, A. Guerry, G.C. Daily, P. Kareiva, S. Polasky, **T.H. Ricketts**, N. Bhagabati, S. Wood, J. Bernhardt (2013). Notes from the field: Lessons learned from using ecosystem service approaches to inform real-world decisions. *Ecological Economics*. doi: 10.1016/j.ecolecon.2013.07.009

- Fisher, B., A. Balmford, P.J. Ferraro, L. Glew, M. Mascia, R. Naidoo, **T.H. Ricketts** (2013). Moving Rio forward and avoiding 10 more years with little evidence for effective conservation policy. *Conservation Biology*. doi: 10.1111/cobi.12221
- Myers, S., L. Gaffikin, C.D. Golden, R.S. Ostfeld, K.H. Redford, **T.H. Ricketts**, W.R. Turner, S.A. Osofsky (2013). Human health impacts of ecosystem alteration. *PNAS* 110 (47) 18753-18760.
- Garibaldi, L.A., I. Steffan-Dewenter, R. Winfree, M. A. Aizen, R. Bommarco, S. A. Cunningham, C. Kremen, L. G. Carvalheiro, L. D. Harder, O. Afik, I. Bartomeus, F. Benjamin, V. Boreux, D. Cariveau, N. P. Chacoff, J. H. Dudenhöffer, B. M. Freitas, J. Ghazoul, S. Greenleaf, J. Hipólito, A. Holzschuh, B. Howlett, R. Isaacs, S. K. Javorek, C. M. Kennedy, K. Krewenka, S. Krishnan, Y. Mandelik, M. M. Mayfield, I. Motzke, T. Munyuli, B. A. Nault, M. Otieno, J. Petersen, G. Pisanty, S. G. Potts, R. Rader, **T. H. Ricketts**, M. Rundlöf, C. L. Seymour, C. Schüepp, H. Szentgyörgyi, H. Taki, T. Tscharntke, C. H. Vergara, B. F. Viana, T. C. Wanger, C. Westphal, N. Williams, A. M. Klein (2013). Wild pollinators enhance fruit set of crops regardless of honey-bee abundance. *Science* 339(6127): 1608-1611.
- Kennedy, C., E. Lonsdorf, M. Neel, W. Neal, **T.H. Ricketts**, R. Winfree, R. Bommarco, C. Brittain, A. Burley, D. Cariveau, L. Carvalheiro, N. Chacoff, S. Cunningham, B. Danforth, J. Dudenhöffer, E. Elle, H. Gaines, C. Gratton, L. Garibaldi, A. Holzschuh, R. Isaacs, S. Javorek, S. Jha, A. Klein, K. Krewenka, Y. Mandelik, M. Mayfield, L. Morandin, L. Neame, M. Otieno, M. Park, S. Potts, M. Rundlöf, A. Saez, I. Steffan-Dewenter, H. Taki, J. Wilson, B. Viana, C. Westphal, S. Greenleaf, C. Kremen (2013). A global quantitative synthesis of local and landscape effects on wild bee pollinators in agroecosystems. *Ecology Letters* 16(5): 584-599.
- Ricketts, T.H.**, E. Lonsdorf (2013). Mapping the margin: Comparing marginal values of tropical forest remnants for pollination services. *Ecological Applications* 23(5): 1113-1123.
- Pennington, D.N., **T.H. Ricketts**, R. Naidoo (2013). Priority setting for biodiversity and ecosystem services. In: Simon A Levin, editor. *Encyclopedia of Biodiversity 2nd edition*. Academic Press.

2012

- Tallis, H., H. Mooney, S. Andelman, P. Balvanera, W. Cramer, D. Karp, S. Polasky, B. Reyers, **T.H. Ricketts**, S. Running, K. Thonicke, B. Tietjen, A. Walz (2012). A global system for monitoring ecosystem service change. *Bioscience* 62(11): 977-986.
- Butchart, S.H., J.P.W. Scharlemann, M. Evans, S. Quader, S. Aricò, J. Arinaitwe, M. Balman, L.A. Bennun, C. Besançon, T. Boucher, B. Bomhard, T.M. Brooks, I.J. Burfield, N.D. Burgess, S. Chan, R.P. Clay, M.J. Crosby, N.C. Davidson, N. De Silva, C. Devenish, G.C. L. Dutson, D.F. Díaz Fernández, L.D. C. Fishpool, C. Fitzgerald, M. Foster, M.F. Heath, M. Hockings, M. Hoffmann, D. Knox, F. Larsen, J.F. Lamoreux, C. Loucks, I. May, J. Millett, D. Molloy, P. Morling, M. Parr, **T.H. Ricketts**, B. Skolnik, A. Upgren, S. Woodley (2012). Protecting important sites for biodiversity contributes to meeting global conservation targets. *PloS ONE* 7:e32529.

2011

- Fisher, B., Turner, R. K., Burgess, N. D., Swetnam, R. D., Green, J., Green, R. E., Kajembe, G., Kulindwa, K., Lewis, S. L., Marchant, R., Marshall, A. R., Madoffe, S.,

- Munishi, P. K. T., Morse-Jones, S., Mwakalila, S., Paavola, J., Naidoo, R., **Ricketts, T.H.**, Rouget, M., Willcock, S., White, S., Balmford, A. (2011). Measuring, modeling and mapping ecosystem services in the Eastern Arc Mountains of Tanzania. *Progress in Physical Geography*, 2011. 35(5): p. 595-611.
- Pennington, D.N., **T.H. Ricketts** (2011). Conservation Biology and Biodiversity. In: *Encyclopedia of Life Sciences*. John Wiley & Sons Ltd, Chichester. <http://www.els.net> [doi: 10.1002/9780470015902.a0003256.pub2]
- Garibaldi, L.A., I. Steffan-Dewenter, C. Kremen, J. M. Morales, R. Bommarco, S. A. Cunningham, L.G. Carvalheiro, N.P. Chacoff, J.H. Dudenhöffer, S.S. Greenleaf, A. Holzschuh, R. Isaacs, K. Krewenka, Y. Mandelik, M.M. Mayfield, L.A. Morandin, S.G. Potts, **T.H. Ricketts**, H. Szentgyörgyi, C. Westphal, R. Winfree, A.M. Klein (2011). Stability of pollination services decreases with isolation from natural areas despite honey bee visits. *Ecology Letters* 14: 1062-1072.
- Abell, R., M. Thieme, **T.H. Ricketts**, N. Olwero, R. Ng, P. Petry, E. Dinerstein, C. Revenga, J. Hoekstra (2011). Concordance of freshwater and terrestrial biodiversity. *Conservation Letters* 4:127-136.
- Swetnam, R. D., B. Fisher, B. P. Mbilinyi, P. K. Munishi, S. Willcock, **T.H. Ricketts**, S. Mwakalila, A. Balmford, N.D. Burgess, A.R. Marshall, S.L. Lewis (2011). Mapping socio-economic scenarios of land cover change: a GIS method to enable ecosystem service modelling. *Journal of Environmental Management* 92:563-574
- Lonsdorf, E., **T. H. Ricketts**, C. Kremen, R. Winfree, S. Greenleaf, and N. Williams (2011). Crop Pollination. in Kareiva, P. et al. (eds). *Natural capital: Theory and practice of mapping ecosystem services*. Oxford University Press.
- Daily, G.C., P. Kareiva, S. Polasky, **T. H. Ricketts**, H. Tallis (2011). Mainstreaming Natural Capital into Decisions, in Kareiva, P. et al. (eds). *Natural capital: Theory and practice of mapping ecosystem services*. Oxford University Press.
- Polasky, S., G. Caldarone, T. K. Duarte, J. Goldstein, N. Hannahs, **T. H. Ricketts**, and H. Tallis (2011). Putting Ecosystem Service Models to Work: Conservation, Management and Tradeoffs. in Kareiva, P. et al. (eds). *Natural capital: Theory and practice of mapping ecosystem services*. Oxford University Press.
- Conte, M., E. Nelson, K. Carney, C. Fissore, N. Olwero, A. Plantinga, S. Wood, and **T. H. Ricketts** (2011). Terrestrial Carbon Sequestration and Storage. in Kareiva, P. et al. (eds). *Natural capital: Theory and practice of mapping ecosystem services*. Oxford University Press.

2010

- Ricketts, T.H.**, B. Soares-Filho, G. A. B. da Fonseca, D. Nepstad, A. Pfaff, A. Peterson, A. Anderson, D. Boucher, A. Cattaneo, M. Conte, K. Creighton, L. Linden, C. Maretti, P. Moutinho, R. Ullman, R. Victurine (2010). Indigenous lands, Protected areas, and slowing climate change. *PLoS Biology* 8:3 e10000331

2009

- Lonsdorf, E., Kremen, C., **Ricketts, T.H.**, Winfree, R., Williams, N. and Greenleaf, S. (2009). Modeling pollination services across agricultural landscapes. *Annals of Botany* 103(9): 1-12.

- Daily, G.C., S. Polasky, J. Goldstein, P. M. Kareiva, H.A. Mooney, L. Pejchar, **T.H. Ricketts**, J. Salzman, R. Shallenberger (2009). Ecosystem services in decision-making: Time to deliver. *Frontiers in Ecology and Environment* 7(1):21-28.
- Nelson, Erik, G. Mendoza, J. Regetz, S. Polasky, H. Tallis, D.R. Cameron, K.M.A. Chan, G.C. Daily, J. Goldstein, P. Kareiva, E. Lonsdorf, R. Naidoo, **T.H. Ricketts**, M.R. Shaw (2009). Modeling multiple ecosystem services, biodiversity, conservation, commodity production, and tradeoffs at landscape scales. *Frontiers in Ecology and Environment* 7(1): 4-11.
- Mwakalila, S., Burgess, N. D., **Ricketts, T.H.**, Olwero, N. , Swetnam, R., Mbilinyi, B., Marchant, R., Mitalo, F., White, S., Munishi, P., Marshall, A., Malimbwi, R., Smith, C., Jambiya, G., Madoffe, S., Fisher, B., Kajembe, G., Morse-Jones, S., Kulindwa, K., Green, J., Balmford, A. (2009). Linking Science with Stakeholders to Sustain Natural Capital. *The Arc Journal* 23: 22-27

2008

- Allnutt, T.F., S. Ferrier, G. Manion, G. V. N. Powell, **T.H. Ricketts**, B.L. Fisher, G.J. Harper, C. Kremen, J. Labat, D.C. Lees, T.A. Pearce, M.E. Irwin, F. Rakotondrainibe. (2008). Quantifying biodiversity loss in Madagascar from a 50-year record of deforestation. *Conservation Letters* 1:173-181.
- Naidoo, R., A. Balmford, R. Costanza, B. Fisher, R.E. Green, B. Lehner, T.R. Malcolm, **T.H. Ricketts** (2008). Global mapping of ecosystem services and conservation priorities. *Proceedings of the National Academy of Sciences – US*. 105: 9495-9500.
- Loucks, C., **T.H. Ricketts**, R. Naidoo, J. Lamoreux, J. Hoekstra (2008). Explaining the global pattern of protected area coverage: relative importance of vertebrate biodiversity, human activities and agricultural suitability. *J. Biogeography*. 35:1337-1348.

2007

- Ricketts, T.H.**, J. Regetz, I. Steffan-Dewenter, S. A. Cunningham, C. Kremen, B. Gemmill, S. S. Greenleaf, A. M. Klein, M. M. Mayfield, L. A. Morandin, A. Ochieng', R. Winfree. (2007). Landscape effects on crop pollination services: Are there general patterns?. *Ecology Letters* 11:499-515.
- Grand, J., M. P. Cummings, T. G. Rebelo, **T. H. Ricketts**, and M. C. Neel. 2007. Biased data reduce efficiency and effectiveness of conservation reserve networks. *Ecology Letters* 10:364-374.
- Armsworth, P.R., K.M.A. Chan, G.C. Daily, P.R. Ehrlich, C. Kremen, **T.H. Ricketts**, M.A. Sanjayan (2007). Ecosystem service science and the way forward for conservation. *Conservation Biology* 21: 1383-1384.
- Zhang, W., **T.H. Ricketts**, C. Kremen, K.M. Carney, S.M. Swinton (2007). Ecosystem services and dis-services to agriculture. *Ecological Economics* 64: 253-260.
- Hess, G., R.A. Bartel, A. Leidner, K.M. Rosenfeld, M.J. Rubino, S. Snider, **T.H. Ricketts** (2007). Effectiveness of biodiversity indicators varies with extent, grain, and region. *Biological Conservation* 132:448-457.
- Lamoreux, J.F., J.C. Morrison, **T.H. Ricketts**, D.M. Olson, E. Dinerstein, M.W. McKnight, H. H. Shugart (2007). The multifaceted nature of biodiversity conservation: Reply to Leroux and Schiegelow. *Conservation Biology*. 21: 269-270.

Kremen, C., N. Williams, M.A. Aizen, B. Gemmill-Herren, G. LeBuhn, R. Minckley, L. Packer, S. Potts, T. Roulston, I. Steffan-Dewenter, D. Vazquez, R. Winfree, L. Adams, E. Crone, S. Greenleaf, T. Keitt, A.M. Klein, J. Regetz, **T.H. Ricketts** (2007). Pollination and other ecosystem services produced by mobile organisms: a conceptual framework for the effects of land use change. *Ecology Letters*. 10:299-314.

2006

Naidoo, R., A. Balmford, P. J. Ferraro, S. Polasky, **T. H. Ricketts**, M. Rouget (2006). Integrating economic costs into conservation planning. *Trends in Ecology and Evolution* 21(12): 681-687.

Florez, J.A.; M.A. Guzmán, **T.H. Ricketts**, R. Vandame (2006). Café y abejas: conservación y producción. In Pohlan, A.J., L. Soto Pinto, and J.F. Barrera (eds). *El cafetal del futuro: Realidades y visiones*. Shaker Verlag, Aachen, Germany

Naidoo, R. and **T.H. Ricketts** (2006). Mapping economic costs and benefits of conservation. *PLoS Biology* 4(11):e360.

Lamoreux, J.F., J.C. Morrison, **T.H. Ricketts**, D.M. Olson, E. Dinerstein, M.W. McKnight, H. H. Shugart (2006). Global tests of biodiversity concordance and the importance of endemism. *Nature* 440:212-213.

Burgess, N., J. D'Amico Hales, **T.H. Ricketts**, E. Dinerstein. 2006. Factoring species, non-species values and threats into biodiversity prioritisation across the ecoregions of Africa and its islands. *Biological Conservation* 127:383-401.

Ricketts, T.H., N. Williams, and M. Mayfield (2006). Connectivity and ecosystem services: crop pollination in fragmented landscapes. In Crooks, K. and M. Sanjayan, editors. *Connectivity Conservation*. Cambridge University Press, Cambridge, UK.

2005

Ricketts, T.H., E. Dinerstein, T. Boucher, T.M. Brooks, S.M. Butchart, M. Hoffman, J.F. Lamoreux, J. Morrison, M. Parr, J.D. Pilgrim, A.S.L. Rodrigues, W. Sechrest, G.E. Wallace, K. Berlin, J. Bielby, N.D. Burgess, D.R. Church, N. Cox, D. Knox, C. Loucks, G.W. Luck, L.L. Master, R. Moore, R. Naidoo, R. Ridgely, G.E. Schatz, G. Shire, H. Strand, W. Wettengel, E. Wikramanayake (2005). Pinpointing and preventing imminent extinctions. *Proceedings of the National Academy of Sciences – US* 102:18497-18501.

Kier, G., J. Mutke, E. Dinerstein, **T.H. Ricketts**, W. Küper, H. Kreft, W. Barthlott. (2005) Global patterns of plant diversity. *Journal of Biogeography* 32:1107-1116.

Loh, J., R.E. Green, **T.H. Ricketts**, J. Lamoreux, M. Jenkins, V. Kapos, and J. Randers (2005). The Living Planet Index: Using species population time series to track trends in biodiversity. *Philosophical Transactions of the Royal Society of London, Series B* 360:289-295

Hoekstra, J.M., T.M. Boucher, **T.H. Ricketts**, and C. Roberts (2005). Confronting a biome crisis: Global disparities of habitat loss and protection. *Ecology Letters* 8:23-29.

Balmford, A, L. Bennun, B. ten Brink, D. Cooper, I.M. Côté, P. Crane, A. Dobson, N. Dudley, I. Dutton, R.E. Green, R.D. Gregory, R. Harrison, E.T. Kennedy, C. Kremen, N. Leader-Williams, T.E. Lovejoy, G. Mace, R. May, P. Mayaux, P. Morling, J.

Phillips, K. Redford, **T.H. Ricketts**, J.P. Rodríguez, M. Sanjayan, P.J. Schei, A.S. van Jaarsveld, B.A. Walther (2005). The Convention on Biological Diversity's 2010 Target. *Science* 307:212-213.

Defries, R., et al. 2005. Analytical approaches for assessing ecosystem condition and human well-being. in N. J. Ash, R. Hassan, and R. Scholes, eds. *Millennium Ecosystem Assessment. Ecosystems and human well-being, vol. 1: Current state and trends*. Island Press, Washington, DC.

Mace, G.M., et al. (2005). Biodiversity. in N. J. Ash, R. Hassan, and R. Scholes, eds. *Millennium Ecosystem Assessment. Ecosystems and human well-being, vol. 1: Current state and trends*. Island Press, Washington, DC.

2004

Ricketts, T.H., G.C. Daily, P.R. Ehrlich, and C. Michener (2004). Economic value of tropical forest to coffee production. *Proceedings of the National Academy of Sciences – US*. 101(34):12579-12582.

Ricketts, T.H. (2004). Tropical forest fragments enhance pollinator activity in nearby coffee crops. *Conservation Biology* 18(5):1262-1271.

Imhoff, M.L., L. Bounoua, **T.H. Ricketts**, C. Loucks, R. Harriss, W. T. Lawrence (2004) Global patterns in human consumption of net primary production. *Nature* 429:870-873.

Luck, G.W., **T.H. Ricketts**, G.C. Daily, M. Imhoff (2004). Alleviating spatial conflict between people and biodiversity. *Proceedings of the National Academy of Sciences – US*. 101(1):182-186.

Imhoff, M.L., L. Bounoua, R. DeFries, W. T. Lawrence, D. Stutzer, C. J. Tucker, and **T.H. Ricketts**. (2004). The consequences of urban land transformation on net primary productivity in the United States. *Remote Sensing of Environment* 89(4): 434-443.

Higgins, J.V., **T.H. Ricketts**, J.D. Parrish, E. Dinerstein, G. Powell, S. Palminteri, J.M. Hoekstra, J. Morrison, A. Tomasek, J. Adams. (2004). Beyond Noah: Saving species is not enough. *Conservation Biology* 18(6):1672-1673.

2003

Ricketts, T.H. and M. Imhoff. (2003). Biodiversity, urban areas, and agriculture: locating priority ecoregions for conservation. *Conservation Ecology* 8(2): 1. URL: <http://www.consecol.org/vol8/iss2/art1>

Rosenzweig, M.L., W. Turner, J.G. Cox, and **T.H. Ricketts**. (2003). Estimating diversity in unsampled habitats of a biogeographical province. *Conservation Biology* 17(3):864-874.

2002

Ricketts, T.H., G.C. Daily, and P.R. Ehrlich. (2002). Does butterfly diversity predict moth diversity? Testing a popular indicator taxon at local scales. *Biological Conservation* 103(3):361-370.

2001

- Ricketts, T.H.** (2001). The matrix matters: effective isolation in fragmented landscapes. *American Naturalist* 158(1):87-99.
- Ricketts, T.H.**, G.C. Daily, P.R. Ehrlich, and J.P. Fay. (2001). Countryside biogeography of moths in a fragmented landscape: biodiversity in native and agricultural habitats. *Conservation Biology* 15(2):378-388.
- Balvanera, P., G.C. Daily, P.R. Ehrlich, **T.H. Ricketts**, S.A. Bailey, S.Kark, C. Kremen, and H. Pereira. (2001). Conserving biodiversity and ecosystem services. *Science* 291(5511):2047.
- Hughes, J.B., J.J. Hellmann, **T.H. Ricketts**, and B.J. Bohannan. (2001). Counting the uncountable: Statistical approaches to estimating microbial diversity. *Applied and Environmental Microbiology* 67(10):4399-4406.
- Ricketts, T.H.** (2001). Aligning conservation goals: are patterns of species richness and endemism concordant at regional scales? *Animal Biodiversity and Conservation* 24(1):91-99
- Olson, D.M., E. Dinerstein, E.D. Wikramanayake, N.D. Burgess, G.V.N. Powell, E.C. Underwood, J.A. D'Amico, I. Itoua, H.E. Strand, J.C. Morrison, C.J. Loucks, T.F. Allnutt, **T.H. Ricketts**, Y. Kura, J.F. Lamoreux, W.W. Wettengel, P. Hedao, and K.R. Kassem. (2001). Terrestrial ecoregions of the world: New map of life on earth. *Bioscience* 51(11):933-938.
- Heal, G. G.C. Daily, P.R. Ehrlich, J. Salzman, C. Boggs, J.J. Hellmann, J.B. Hughes, C. Kremen, **T.H. Ricketts**. (2001). Protecting natural capital through ecosystem service districts. *Stanford Environmental Law Journal* 20(2):333-364.
- Ricketts, T.H.** (2001). Conservation biology and biodiversity. *Encyclopedia of Life Sciences*. MacMillan Reference Ltd, London.

2000

- Kremen, C. and **T.H. Ricketts**. (2000). Global perspectives on pollination disruptions. *Conservation Biology* 14(5):1226-1228.

1999

- Ricketts, T.H.**, E. Dinerstein, D.M. Olson, C. Loucks. (1999). Who's where in North America? Patterns of species richness and the utility of indicator taxa for conservation. *Bioscience* 49(5):369-381.
- Fleishman, E., G.H. Wolff, C.L. Boggs, P.R. Ehrlich, A.E. Launer, J.O. Niles and **T.H. Ricketts**. (1999). Conservation in practice: overcoming obstacles to implementation. *Conservation Biology* 13:450-452

Non-peer-reviewed Publications

- Tallis, H.T., **Ricketts, T.H.**, Guerry, A.D., Nelson, E, Ennaanay, D., Wolny, S, Olwero, N., Vigerstol, K., Pennington, D., Mendoza, G., Aukema, J., Foster, J., Forrest, J., Cameron, D, Lonsdorf, E., Kennedy, C., Verutes, G., Kim, C.K., Guannel, G., Papenfus, M., Toft, J., Marsik, M., and Bernhardt, J. (2011). *INVEST 2.0 beta User's Guide*. The Natural Capital Project.
- WWF (2010). Living Planet Report. Contributing author, ecosystem services sections.
- Ricketts, T.H.** (2010). Why ecoregions? In Hoekstra et al. eds. *The Atlas of Global Conservation*. University of California Press. Pp. 6-7.

- Burgess, N., Mwakalila, S., Madoffe, S., **Ricketts, T.H.**, Olwero, N., Swetnam, R., Mbilinyi, B., Marchant, R., Mtalo, F., White, S., Munishi, P., Marshall, A., Malimbwi, R., Jambiya, G., Fisher, B., Kajembe, G., Morse-Jones, S., Kulindwa, K., Green, J., and A. Balmford (2009). Valuing the Arc – A Programme to Map and Value Ecosystem Services in Tanzania. *Mountain Research Initiative Newsletter* 18(3):18-21.
- Burgess, N.D., **T. H. Ricketts**, A. Balmford and R. Wild. 2004. The 5th World Parks Congress. *Oryx* 38: 1-2.
- Flather, C.H.; **Ricketts, T.H.**; Sieg, C.H.; Knowles, M.S.; Fay, J.P.; McNees, J. 2003. Criterion 1: conservation of biological diversity. Indicator 6: the number of forest-dependent species. In: Darr, D., compiler. *Technical document supporting the 2003 national report on sustainable forests*. Washington, DC: U.S. Department of Agriculture, Forest Service.
- Flather, C.H.; **Ricketts, T.H.**; Sieg, C.H.; Knowles, M.S.; Fay, J.P.; McNees, J.. 2003. Criterion 1: Conservation of biological diversity. Indicator 7: The status (threatened, rare, vulnerable, endangered, or extinct) of forest-dependent species at risk of not maintaining viable breeding populations, as determined by legislation or scientific assessment. In: Darr, D., compiler. *Technical document supporting the 2003 national report on sustainable forests*. Washington, DC: U.S. Department of Agriculture, Forest Service.
- Fleishman, E., C.L. Boggs, M.C. Devine, S. Kark, and **T.H. Ricketts**. (2001). Status of the union. Review of Mac, M.J., P.A. Opler, C.E. Puckett Haecker, and P.D. Doran, editors. 1998. Status and Trends of the Nation's Biological Resources. U.S.G.S., Reston, Virginia. *Conservation Biology* 14(6):1926-1927.
- Dinerstein, E., G. Powell, D.M. Olson, E. Wikramanayake, R. Abell, C. Loucks, E. Underwood, T. Allnutt, W. Wettengel, **T.H. Ricketts**, H. Strand, S. O'Connor, and N. Burgess. 2001. *A workbook for conducting biological assessments and developing biodiversity visions for ecoregion-based conservation*. World Wildlife Fund, Washington, DC.
- Ricketts, T.H.** 1999. Managing water more wisely. Review of P.H. Gleik. 1998. The World's Water. *Bioscience* 49(10):831-832.
- Hellmann, J.J., J.B. Hughes, and **T.H. Ricketts**. 1998. Review of J.L. Simon, editor. 1995. The State of Humanity. *Ecofables/Ecoscience* 1:11-17.
- Ricketts, T.H.**, E.S. Bryant, R.W. Birnie, K.D. Kimball. 1992. Landsat TM mapping of alpine vegetation to monitor global climate change. *Proceedings of the American Society for Photogrammetry and Remote Sensing/ACSM/RT 92 Convention*. Washington, D.C., USA. August 3-7, 1992. IV:86-97.

GRANTS

- | | |
|---|-----------|
| US Fish and Wildlife Service – Migratory Birds Conservation Fund | 2018-2020 |
| <i>Conserving neotropical migrants by managing ecosystem services on coffee farms</i> | |
| \$199,998 to CATIE, co-PI (PI Alejandra Martinez) | |
| National Science Foundation – US | 2018-2021 |
| <i>Linking aboveground and belowground interactions in highbush blueberry</i> | |
| \$199,528 to UVM, co-PI (PI Alison Brody UVM) | |

Environment for Development Initiative (SIDA) <i>Can protected areas reduce the vulnerability to climate related disasters?</i> \$73,333 to CATIE, co-PI (PI Matias Piaggio, CATIE)	2018-2019
USAID BRIDGE Program <i>Investigating the linkages between watershed conditions and human health</i> \$118,359 to UVM, PI	2017-2019
Vermont Agency of Agriculture, Food and Markets Program <i>Managing locally sourced native bees as alternative pollinators</i> \$36,055 to UVM, PI	2017-2019
The Nature Conservancy – VT <i>Nature based solutions to Lake Champlain water quality</i> \$216,267 to UVM, PI	2016-2018
USDA, McIntire Stennis Cooperative Program <i>Ecosystem services from a changing Northern Forest</i> \$142,000 to UVM, PI	2015-2017
Luc Hoffmann Institute, WWF <i>Watershed and Health</i> \$108,000 to UVM, PI	2015-2017
USDA, McIntire Stennis Cooperative Program <i>Managing the matrix: A framework for assessing ecosystem services in forested landscapes.</i> \$950,000 to UVM, Co-PI (PI Bill Keeton, UVM)	2014-2019
Social Sciences and Humanities Research Council, Canada <i>Economics for the Anthropocene</i> \$2,500,000 total, ~ \$750,000 to UVM, Co-PI (PI Peter Brown, McGill University)	2014-2020
National Science Foundation Research Coordination Network <i>Scenarios, Services, and Society</i> \$750,000 total, \$0 to UVM, Co-PI (PI David Foster, Harvard Forest)	2014-2018
Lintilhac Foundation <i>Conserving Nature for a Resilient Vermont</i> \$17,000, PI	2013-2014
Various private individuals <i>Specific projects and general program support to Gund Institute, UVM</i> Total of over \$7,000,000, PI	2013-present
Gordon and Betty Moore Foundation <i>Health and Ecosystems, Analysis of Linkages</i> \$2,000,000 total, \$306,000 to UVM, Co-PI (PI Steve Osofsky, WCS)	2012-2016
WWF Senior Fellowship <i>Valuing Nature</i> \$71,000, PI	2012-2014
USDA <i>Developing Sustainable Pollination Strategies for US Specialty Crops</i> ~\$3,000,000 total, \$736,000 to UVM, Co-PI (PI Rufus Isaacs, Michigan State U.)	2012-2017
NSF SESYNC <i>Human health and welfare, ecological condition and natural resources governance</i> \$100,000, PI (with Brendan Fisher, WWF)	2012-2014

National Research Council	2012-2013
<i>Healthy ecosystems and healthy people: Bridging disciplines to understand health impacts of environmental change</i>	
\$100,000, co-PI (with Kate Brauman, U. Minnesota)	
Google, Inc.	2010-2012
<i>Natural Capital Project</i>	
\$2,000,000, PI	
Norwegian Agency for Development Cooperation	2010-2013
<i>REDD for People and Nature</i>	
\$4,800,000 in 2 phases, \$1,080,000 for WWF Science	
Various private individuals	2009-2011
<i>Specific projects and general program support to WWF Science Program</i>	
Total of over \$435,000, PI	
Moore Foundation	2008-2010
<i>Marine InVEST: Development and application of ecosystem service models to inform marine ecosystem-based management</i>	
\$1,970,000 total, \$80,000 to WWF Science	
Wilberforce Foundation	2010
<i>Natural Capital Project</i>	
\$2,750, PI	
Packard Foundation	2007-2009
<i>Putting ecosystem services to work in Eastern Arc Mountains, Tanzania,</i>	
\$400,000, PI	
NASA	2005
<i>Measuring Wild Nature for 2010 targets – Royal Society Workshop</i>	
\$10,000, PI	
NASA Earth Science Land Cover Land Use Change Program	2000-2004
<i>Measuring human impacts on the biodiversity and carrying capacity of ecosystems</i>	
\$182,000 for WWF Science, collaborator, PI: Marc Imhoff, NASA	
U.S. Forest Service	2001-2002
<i>Regional and local species diversity of birds in North America</i>	
\$10,000, PI	
Summit Foundation	2000-2002
<i>Coffee pollination in a tropical fragmented landscape: conservation of an important ecosystem service</i>	
\$200,000, PI	
NASA Earth Observing System Interdisciplinary Science Program	1999-2000
<i>Urbanization, land use, and biological resources</i>	
\$10,000 to support graduate project, collaborator, PI: Marc Imhoff, NASA	

HONORS

Named “Highly Cited Researcher” by Thompson Reuters	2014-2018
Visiting Distinguished Ecologist, Colorado State University	2013
Boething Lecture, Stanford University	2010
Rothenburg Lecture: Biology in Public Policy, Bryn Mawr College	2008

Zayed Prize for Scientific Achievement in Environment (shared with all authors of Millennium Ecosystem Assessment)	2005
Teresa Heinz Scholarship for Environmental Research	1999-2000
Wessells Award for outstanding performance in teaching (Stanford University)	1998
National Science Foundation Graduate Research Fellowship	1996-1999
NASA Space Grant Undergraduate Fellow	1991
Upham Prize for most outstanding research in Earth Sciences (Dartmouth College)	1991

TEACHING AND MENTORING

Courses

Landscape Ecology, UVM	2014, 2015, 2018
Ecosystem Services, UVM	2013, 2015, 2016, 2019
Ecological Economics in Practice, UVM	2019
Behavioral Economics, UVM	2013
Ecosystems and Human Health, UVM	2012
Field Ecology, Stanford University (with Diane Wagner and Nate Sanders)	1998

Graduate students

Aura Alonso-Rodriguez, UVM, PhD	2019-present
Natalia Aristizabal, UVM, PhD	2018-present
Jesse Gourevitch, UVM, PhD	2016-present
Aaron Schwartz, UVM, PhD	2015-present
Charlie Nicholson, UVM, PhD	2013-2018
Keri Bryan, UVM, PhD	2013-2017
Steve Posner, UVM, PhD	2012-2015

Advisees

Jessica Cole, UVM, Biology	2018-present
Eva Kinnebrew, UVM, PhD	2017-present
Adrian Weigman, UVM, PhD	2017-present
Alison Adams, UVM, PhD	2016-present
Melanie Kazenel, UVM, MS	2016-2018
Kathryn Wrigley, UVM, MS	2015-2018
Hilary Byerly, UVM, PhD	2015-2019
Qing Ren, UVM, MS	2014-2016
Samantha Alger, UVM, PhD	2013-2017
Michele Brown, UVM, PhD	2013-2019
Sam Carlson, UVM, MS	2012-2016
Joan White, UVM, MS	2012-2014
Sebastian Castro, UVM, PhD	2012-2014
Pierre Mokondoko, Insituto de Ecologia, Mexico, PhD	2011-2019
Becky Cushing, UVM, MS	2012-2013
Christina Kennedy, U. Maryland, PhD	2004-2010

Post-doctoral researchers

Luz de Witt, UVM	2019-present
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Ranaivo Rasolofoson, U. Vermont	2016-2018
Nitin Singh, U. Vermont	2016-2018
Leif Richardson, U. Vermont	2015-present
Laura Sonter, U. Vermont	2015-2017
Diego Herrera, U. Vermont	2014-2016
Insu Koh, U. Vermont	2013-2017
Alicia Ellis, U. Vermont	2012-2014
Octavio Aburto-Oropeza, Scripps Institution, WWF Fuller Fellow	2010-2012
Joanna Grand, U. Maryland, NSF Post-doctoral fellow	2005-2008
Robin Naidoo, WWF, SHHRC Post-doctoral fellow	2003-2005

PROFESSIONAL ACTIVITIES

Professional appointments

International Research Associate, Environment for Development	2018-present
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Scientific panels and committees

Science Advisory Council, Ecology Project International	2018-present
Advisory Council, Institute at Brown for Environment and Society	2015-present
Review Editor, Intergov. Platform on Biodiversity and Eco. Services	2014-2016
Conservation Research Panel, WWF Hoffmann Institute	2012-2015
Advisory Council, RFF Center for Management of Ecological Wealth	2012-2014
Science Advisory Board, NCEAS (Chair 2010-2011)	2008-2012
Committee on Status of Pollinators, National Research Council	2005-2006
Coordinating Lead Author, Millennium Ecosystem Assessment	2000-2005

Editorial service

Associate Editor, Frontiers in Ecology and Evolution	2005-2012
Faculty member, Faculty of 1000 Biology	2004-2008
Editorial Board, Animal Biodiversity and Conservation	2002-present

UVM Service

Rubenstein School Graduate Standards Committee	2018-present
UVM Faculty Senate	2015-2017
Campus wide Committee to resource Environment Institute (co-chair)	2015
Campus wide Committee to design Environment Institute (co-chair)	2014
Campus wide Committee on Envisioning Environment at UVM	2012-2013
Rubenstein School Graduate Standards Committee	2012-2015
Rubenstein School committee to design an online masters degree	2012-2013

Community service

Member, Vermont Dairy and Water Collaborative	2018-2019
External Review Panel, Institute on Environment, U. Minnesota	2013
Governing Board, Vermont Land Conservation and Flood Resiliency	2012-2016
Governing Board, Natural Capital Project	2007-2017

Professional associations

International Society for Ecological Economics	2012-present
American Association for the Advancement of Science	2004-present
Ecological Society of America	1997-present
Society for Conservation Biology	1997-present

Invited seminars and lectures (selected)

Cornell University, Dept. Entomology (student invited seminar)	2019
Cornell University, Atkinson Center for Sustainable Future (invited seminar)	2019
Quebec Centre for Biodiversity Science, annual meeting (keynote)	2018
University of Costa Rica, Biology Colloquium	2018
Center for Tropical Agroforestry and Education (CATIE, Costa Rica) (plenary)	2018
US Agency for International Development (USAID), invited talk	2017
National Council for Science and the Environment (NCSE), invited talk	2017
Symposium on Ecological Levers for Health (UC Santa Barbara)	2017
Planetary Health Alliance, Inaugural meeting (plenary)	2017
Center for Tropical Agroforestry and Education (CATIE, Costa Rica)	2016
International Conference on Pollinator Biology, Health, and Policy (plenary)	2016
Symposium on Vermont's Pollinators (keynote)	2016
University of Cambridge, International Student Conference (keynote)	2016
Institute for Ecology, Xalapa Mexico, invited seminar	2015
University of California, Berkeley, ESPM invited seminar	2015
International Alliance of Research Univ., Sustainability Congress (keynote)	2014
U. Copenhagen, Center for Macroecology, Evolution and Climate	2014
Franklin and Marshall College, Department of Biology	2014
University of British Columbia, Biodiversity Research Seminar	2013
University of Maine, Dept. of Wildlife Ecology and School of Economics	2013
Colorado State University, Distinguished Visiting Ecologist	2013
Ecological Society of America Emerging Issues conference (plenary address)	2012
Miller Institute Symposium, UC Berkeley (distinguished speaker)	2011
University of Washington, College of the Environment	2011
World Bank, WAVES symposium (plenary speaker and panelist)	2011
University of North Carolina, Curriculum for Ecology (student-invited speaker)	2011
University of Vermont, Rubenstein School for Environment and NR	2011
Resources for the Future	2011
North Carolina State, Department of Forestry	2010
Stanford University, Annual Boething Lecture	2010
Dartmouth College, Department of Biology	2010
Princeton University, Woodrow Wilson School of Public and Intntl Affairs	2009
Duke University, Ecology Program	2009
American Institute for Biological Sciences Annual Meeting (plenary)	2009
Millennium Ecosystem Assessment, Kuala Lumpur, Malaysia	2008
Global Environment Facility (GEF) Secretariat, Natural Resources Seminar	2008
University of Colorado, Boulder, Dept. of Ecology & Evolutionary Biology	2008
RUBICODE – Ecosystem Services in Dynamic Landscapes, Sweden	2008
USDA CREES, Ecosystem Services Seminar series	2007

US Forest Service, Ecosystem Services seminar series	2007
US EPA, Office of Research and Development	2007
Aldo Leopold Leadership Program	2006
University of North Carolina, Curriculum in Ecology	2006
Google Tech Talk	2005
USAID, Biodiversity Program	2005
University of Tennessee, Department of Ecology and Evolutionary Biology	2005
Duke University, Nicholas School of Environment	2004
International Leadership Institute for Environmental Education, Orlando, FL	2004
Cambridge University, Department of Zoology	2004
Brown University, Department of Ecology and Evolutionary Biology	2003
University of Maryland, Behavior, Ecology, Evolution, and Systematics	2003
Humboldt State University, Department of Biology	2002
Utah State University, School of Natural Resources	2002
Victoria University, Wellington, New Zealand, School of Biological Sciences	2001
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