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Curriculum Vitae
STEPHEN POLASKY

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EDUCATION

Ph.D. Economics, University of Michigan, 1986
B.A. Williams College, cum laude, 1979
London School of Economics, 1977 - 1978

EXPERIENCE AND AFFILIATIONS

Regents Professor, University of Minnesota, 2013 – present
Fesler-Lampert Professor of Ecological/Environmental Economics, University of Minnesota, 1999 – present
Resident Fellow of the Institute on the Environment, University of Minnesota, 2009 – present
Research Fellow, Beijer Institute of Ecological Economics, 2007- present
University Fellow, Resources for the Future, 2001 – present
Visiting Scholar Woods Institute of the Environment, Stanford University, 2008 – present
Faculty Fellow, Texas A&M Institute for Advanced Study, 2015 - 2017
James Marsh Professor-at-large, University of Vermont, 2013 - 2018
Zurich Financial Services Distinguished Visiting Professor, University of California, Santa Barbara, May 2015
Research Fellow, Stellenbosch Institute for Advanced Studies, 2014.
Research Associate, Environmental & Energy Economics Program, National Bureau of Economic Research, 2008 – 2015
Founding Fellow of the Institute on the Environment, University of Minnesota, 2007-08
Senior Staff Economist, President's Council of Economic Advisers, 1998 - 1999
Associate Professor, Agricultural and Resource Economics Department, Oregon State University, 1993 - 1999
Visiting Senior Research Fellow, Marine Policy Center, Woods Hole Oceanographic Institution, 1997
Assistant Professor, Economics Department, Boston College, 1986 - 1993
Visiting Research Fellow, Marine Policy Center, Woods Hole Oceanographic Institute, 1990 - 1993

Visiting Scholar, Economics Department, M.I.T., 1990
Research Assistant, Resources for the Future, 1980 -1981
Research Assistant, National Economic Research Associates, 1979 - 1980

FELLOWSHIPS AND AWARDS

Member of the National Academy of Sciences, Elected 2010
Distinguished Scientist, Chinese Academy of Sciences, President's International Fellowship Initiative, 2017
Publication of Enduring Quality, Association of Environmental and Resource Economists Awarded 2012
Fellow of the Association of Environmental and Resource Economists, Elected 2011
Fellow of the American Academy of Arts and Sciences, Elected 2009
Fellow of the American Association for the Advancement of Science, Elected 2007
Marine Policy Fellowship, Woods Hole Oceanographic Institute, 1990 - 1993, 1997
Faculty Fellowship, Boston College, 1989 - 1990
Graves Prize in Political Economy, Williams College, 1979

BOOKS

1. Goodstein, E. and S. Polasky. 2017. *Environmental Economics* (8th edition). John Wiley & Sons.
2. Goodstein, E. and S. Polasky. 2014. *Environmental Economics* (7th edition). John Wiley & Sons.
3. Kareiva, P., H. Tallis, T.H. Ricketts, G.C. Daily, and S. Polasky. (eds.) 2011. *Natural Capital: Theory and Practice of Mapping Ecosystem Services*. Oxford University Press.
4. Polasky, S. (ed.). 2002. *The Economics of Biodiversity Conservation*. International library of environmental economics and policy. Ashgate Publishing Limited.

REFEREED JOURNAL ARTICLES

1. Runge, C., A. Plantinga, A. Larsen, D. Naugle, K. Helmstedt, S. Polasky, P. Donnelly, J. Smith, T. Lark, J. Lawler, S. Martinuzzi, and J. Fargione. Forthcoming. Unintended habitat loss on private land from grazing restrictions on public lands. *Journal of Applied Ecology*.
2. Tallis, H., P. Hawthorne, S. Polasky, J. Reid, M.W. Beck, K. Brauman, J.M. Bielicki, S. Binder, M.G. Burgess, E. Cassidy, A. Clark, J. Fargione, E.T. Game, J. Gerber, F. Isbell, J. Kiesecker, R. McDonald, M. Metian, J.L. Molnar, N.D. Mueller, C. O'Connell, D. Ovando, M. Troell, T.M. Boucher, and B. McPeck. Forthcoming. An attainable global

vision for conservation and human well-being. *Frontiers in Ecology and the Environment*.

3. Luby, I., S. Polasky, and D. Swackhamer. 2018. U.S. urban water prices: Cheaper when drier. *Water Resources Research* 54.
4. Lewis, D.J. and S. Polasky. 2018. An auction mechanism for the optimal provision of ecosystem services under climate change. *Journal of Environmental Economics and Management* 92: 20-34.
5. Packer, C. and S. Polasky. 2018. Reconciling corruption with conservation triage: Should investments shift from the last best places? *PLoS Biology* 16(8): e2005620.
6. O'Connell, C., K. Carlson, S. Cuadra, K. Feeley, J. Gerber, P. West, and S. Polasky. 2018. Balancing tradeoffs: Reconciling multiple environmental goals when ecosystem services vary regionally. *Environmental Research Letters* 13 (6): 064008.
7. Byerly, H., A. Balmford, P.J. Ferraro, C. Hammond Wagner, E. Palchak, S. Polasky, T.H. Ricketts, A. Schwartz, and B. Fisher. 2018. Nudging pro-environmental behavior: Evidence and opportunities. *Frontiers in Ecology and the Environment* 16 (3): 159-168.
8. Binder, S., F. Isbell, S. Polasky, J.A. Catford, and D. Tilman. 2018. Grassland biodiversity can pay. *Proceedings of the National Academy of Sciences* 115(15): 3876-3881.
9. Díaz, S., U. Pascual, M. Stenseke, B. Martín-López, R.T. Watson, Z. Molnár, R. Hill, K.M.A. Chan, I.A. Baste, K.A. Brauman, S. Polasky, A. Church, M. Lonsdale, A. Larigauderie, P.W. Leadley, A.P.E. van Oudenhoven, F. van der Plaats, M. Schröter, S. Lavorel, Y. Aumeeruddy-Thomas, E. Bukvareva, K. Davies, S. Demissew, G. Erpul, P. Failler, C.A. Guerra, C.L. Hewitt, H. Keune, S. Lindley, Y. Shirayama. 2018. There is more to Nature's Contributions to People than Ecosystem Services – A response to de Groot et al. *Science eLetters*.
<http://science.sciencemag.org/content/359/6373/270/tab-e-letters>
10. Díaz, S., U. Pascual, M. Stenseke, B. Martín-López, R.T. Watson, Z. Molnár, R. Hill, K.M.A. Chan, I.A. Baste, K.A. Brauman, S. Polasky, A. Church, M. Lonsdale, A. Larigauderie, P.W. Leadley, A.P.E. van Oudenhoven, F. van der Plaats, M. Schröter, S. Lavorel, Y. Aumeeruddy-Thomas, E. Bukvareva, K. Davies, S. Demissew, G. Erpul, P. Failler, C.A. Guerra, C.L. Hewitt, H. Keune, S. Lindley, Y. Shirayama. 2018. Shifts, drifts and options – A response to Faith. *Science eLetters*.
<http://science.sciencemag.org/content/359/6373/270/tab-e-letters>
11. Qiu, J., E.T. Game, H. Tallis, L.P. Olander, L. Glew, J.S. Kagan, E. Kalies, D. Michanowicz, J. Phelan, S. Polasky, J. Reed, E.O. Sills, D. Urban, S.K. Weaver. 2018. Evidence-based causal chains for linking health, development and conservation action. *Bioscience* 68(3): 182-193.

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13. Olander, L.P., R.J. Johnston, H. Tallis, J. Kagan, L.A. Maguire, S. Polasky, D. Urban, J. Boyd, L. Wainger, and M. Palmer. 2018. Benefit relevant indicators: Ecosystem services measures that link ecological and social outcomes. *Ecological Indicators* 85: 1262-1272.
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15. Noe, R.R., B.L. Keeler, M.A. Kilgore, S.J. Taff, and S. Polasky. 2017. Mainstreaming ecosystem services in state-level conservation planning: progress and future needs. *Ecology and Society* 22(4): 4.
16. Mason, C., S. Polasky, and N. Tarui. 2017. Cooperation on climate change mitigation. *European Economic Review* 99: 43-55.
17. Olander, L., S. Polasky, J. Kagan, R.J. Johnston, L. Wainger, D. Saah, L. Maguire, J. Boyd, and D. Yoskowitz. 2017. So you want your research to be relevant? Building the bridge between ecosystem services research and practice. *Ecosystem Services* 26: 170-82.
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31. Liu, J., K. Ma, P. Ciais, and S. Polasky. 2016. Reducing human nitrogen use for production. *Scientific Reports* 6:30104.
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33. Kennedy, C.M., D.A. Miteva, L. Baumgarten, P.L. Hawthorne, K. Sochi, S. Polasky, J.R. Oakleaf, E.M. Uhlhorn, and J. Kiesecker. 2016. Bigger is better: Improved nature conservation and economic returns from landscape-level mitigation. *Science Advances* 7(2): e1501021.
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35. Albers, H.J., G. M. Busby, B. Hamaide, A.W. Ando, and S. Polasky. 2016. Spatially-correlated risk in nature reserve site selection. *PLoS One* 11(1): e0146023.
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37. Polasky, S., A. Guerry., J. Lubchenco, and M. Ruckelshaus. 2015. Response to Phelps et al.: Liability rules provide incentives to protect natural capital. *Proceedings of the National Academy of Sciences* 112(39): E5380.
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39. Karp, D.S., H. Tallis, R. Sachse, B. Halpern, K. Thonicke, W. Cramer, H. Mooney, S. Polasky, B. Tietjen, K. Waha, A. Walz, and S. Wolny. 2015. National indicators for observing ecosystem service. *Global Environmental Change* 35: 12-21.
40. King, E., J. Cavendar-Bares, P. Balvanera, T.H. Mwumpamba, and S. Polasky. 2015. Tradeoffs in ecosystem services and varying stakeholder preferences: Evaluating conflicts, obstacles, and opportunities. *Ecology and Society* 20 (3): 25.
41. van den Bergh, J., C. Folke, S. Polasky, M. Scheffer, and W. Steffen. 2015. What if solar energy becomes really cheap? A thought experiment and guidelines for analyzing

- environmental problem shifting. *Current Opinion in Environmental Sustainability* 14: 170-179.
42. Polasky, S., B. Bryant, P. Hawthorne, J. Johnson, B. Keeler, and D. Pennington. 2015. Inclusive wealth as a metric of sustainable development. *Annual Review of Environment and Resources* 40: 6.1–6.22.
 43. Guerry, A., S. Polasky, J. Lubchenco, R. Chaplin-Kramer, G.C. Daily, R. Griffin, M.H. Ruckelshaus, I.J. Bateman, A. Duraiappah, T. Elmqvist, M.W. Feldman, C. Folke, J. Hoekstra, P. Kareiva, B. Keeler, S. Li, E. McKenzie, Z. Ouyang, B. Reyers, T. Ricketts, J. Rockström, H. Tallis, and B. Vira. 2015. Natural capital informing decisions: From promise to practice *Proceedings of the National Academy of Sciences* 112: 7348-7355.
 44. Polasky, S., H. Tallis, and B. Reyers. 2015. Setting the bar: Standards for ecosystem services. *Proceedings of the National Academy of Sciences* 112: 7356-7361.
 45. Li, C., H. Zheng, S. Li, X. Chen, J. Li, W. Zeng, Y. Liang, S. Polasky, M.W. Feldman, M. Ruckelshaus, Z. Ouyang, and G.C. Daily. 2015. Impacts of conservation and human development policy across stakeholders and scales. *Proceedings of the National Academy of Sciences* 112: 7396-7401.
 46. Ruckelshaus, M., E. McKenzie, H.M. Tallis, A.D. Guerry, G.C. Daily, P.M. Kareiva, S. Polasky, T. Ricketts, N. Bhagabati, S. Wood, and J. Bernhardt. 2015. Notes from the field: Lessons learned from using ecosystem services to inform real-world decisions. *Ecological Economics* 115: 11-21.
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 48. Cavendar-Bares, J., S. Polasky, E. King, and P. Balvanera. 2015. A sustainability framework for assessing trade-offs in ecosystem services. *Ecology and Society* 20(1): 17.
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54. Johnson, J., C.F. Runge, B. Senauer, J. Foley, and S. Polasky. 2014. Global agriculture and carbon tradeoffs. *Proceedings of the National Academy of Sciences* 111: 12342-12327.
55. Keeler, B.L. and S. Polasky. 2014. Land-use change and costs to rural households: A case study in groundwater nitrate contamination. *Environmental Research Letters* 9(7): 074002
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61. Ren, B. and S. Polasky. 2014. The optimal management of renewable resources under the risk of potential regime shift. *Journal of Economic Dynamics and Control* 40: 195-212.
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PROFESSIONAL SERVICE

Co-Editor, *Journal of Environmental Economics and Management*, 2001 - 2002.

Associate Editor, *Journal of Environmental Economics and Management*, 1996 - 2000.

Associate Editor, *Conservation Letters*, 2008 - 2012.

Associate Editor, *Ecology and Society*, 2009 - .

Associate Editor, *Ecology Letters*, 2009 - 2012.

Associate Editor, *International Journal of Business and Economics*, 2004 - 2005.

Associate Editor, *Journal of the Association of Environmental and Resource Economists*, 2014-2015.

Guest Editor, *Frontiers of Ecology and Environment*, 2008.

Guest Editor, *Environmental and Resource Economics*, 2010.

Editorial Board, *Proceedings of the National Academy of Sciences*, 2010 – .

Editorial Board, *Annual Reviews of Environment and Resources*, 2011 – .

Editorial Board, *Environmental Management*, 2013.

Editorial Board, *International Journal of Business and Economics*, 2005 - .

Editorial Board, *Land Economics*, 2007 - .

Editorial Board, *Review of Ecological Economics*, 2011 – .

Editorial Board, *Theoretical Ecology*, 2007 – .

Editorial Council, *Ecological Economics*, 2009 - .

Editorial Council, *Journal of Environmental Economics and Management*, 1994 - 1995, 2002 - 2007.

Editorial Council, *Review of Environmental Economics and Policy*, 2006 - .

Editorial Council, *Australian Economic Papers*, 2004 – .

Faculty Editorial Advisory Board, *Minnesota Journal of Law, Science and Technology*, 2004-.

Sustainability External Advisory Committee, Dow Chemical Company, 2011 - 2018.

Board of Directors, The Nature Conservancy, 2009 - 2018.

Science Council, The Nature Conservancy, 2005-.

Board of Directors, Beijer Institute for Ecological Economics, Royal Swedish Academy of Sciences. 2007- 2012.

Vice President, Association of Environmental and Resource Economists, 2006-2007.

Co-founder, and member of the Governing Advisory Board, The Natural Capital Project,

2006 - .

Co-Chair, Core Project 3 – Developing the science of conservation and sustainable use of biodiversity, DIVERSITAS, 2002 -2012.

Science Council, Program on Ecosystem Change and Society, International Council of Scientific Unions. 2009-2015.

Policy and Technical Expert Committee, Wealth Accounting for the Value of Ecosystem Services, World Bank. 2012 -

U.S. Environmental Protection Agency, Science Advisory Board. 2009-2015.

U.S. Environmental Protection Agency, U.S. Environmental Protection Agency Clean Air Scientific Advisory Committee Particulate Matter Review Panel. 2015-2016.

U.S. Environmental Protection Agency, Science Advisory Board. Committee on Valuing the Protection of Ecological Systems and Services. 2003 - 2008.

U.S. Environmental Protection Agency, Science Advisory Board. Environmental Economics Advisory Committee. 2001 - 2007.

U.S. Department of Interior, FACA Committee on Natural Resource Damage Assessment and Restoration. 2005 - 2007.

National Oceanic and Atmospheric Administration, Science Advisory Board, 2013 - .

National Academies, Committee on Human Dimensions of Global Change, 2011.

National Academies, Board on Environmental Change and Society, 2012 - 2016.

National Academies, Water Science and Technology Board, 2015 -

National Research Council. Committee on Preparing for Nine Billion on the Planet: Workshop on Sustainability Science, 2013.

National Research Council. Committee on Sustainability Linkages in the Federal Government. 2011 - 2013.

National Research Council. Committee on the U.S. Army Corps of Engineers Water Resources Science, Engineering, and Planning – Coastal Risk Reduction. 2013 – 2014.

National Research Council. Committee on the Effects of the Deepwater Horizon Mississippi Canyon-242 Oil Spill on Ecosystem Services in the Gulf of Mexico. 2011 - 2013.

National Research Council. Committee on Incorporating Sustainability in the U.S. Environmental Protection Agency. 2010 - 2011.

National Research Council. Committee on the Review of the Water and Environmental Research Systems (WATERS) Network. 2007 - 2009.

National Research Council, Committee on Assessing and Valuing the Services of Aquatic and Related Terrestrial Ecosystems, 2002 - 2004.

National Research Council, Committee to Review the *Florida Keys Carrying Capacity Study*, 2001-2002.

W-133 Western Regional Research Project, Secretary 1996-1997, Vice President 1997-1998, President 1999-2000.

Ecosystem-based Management Science Advisory Board, National Center for Ecological Analysis and Synthesis, 2005-2007.

Program Committee, Second World Congress of Environmental and Resource Economists, Monterey, CA, June 2002.

Program Committee, Fourth World Congress of Environmental and Resource Economists, Montreal, Canada, June-July 2010.

Professional Activities Committee, American Agricultural Economics Association, 1998-2001.

Energy Supply Technical Working Group, Minnesota Climate Change Advisory Group 2007-2008.

Cap-and-Trade Technical Working Group, Minnesota Climate Change Advisory Group 2007-2008.

Science Advisory Panel, Lake Pepin TMDL, 2005 - 2008.

Board Member, Experiment in Rural Cooperation, 2004.

Co-Chair of the Provost's Advisory Committee for the Institute on the Environment, University of Minnesota, 2006.

Co-Cluster Leader of the Policy, Economics and Ecosystems Cluster of the Initiative for Renewable Energy and the Environment, University of Minnesota, 2003 - 2008.

Distinguished McKnight Professor Selection Committee, University of Minnesota, 2010-2012.

Regents Professor Selection Committee, University of Minnesota, 2015 - .

Grand Challenges Review Committee, University of Minnesota, 2015 - .

MN Drive Advisory Board, University of Minnesota, 2013 -

Associate Director, Center for Analysis of Environmental Change, Oregon State University, 1996 - 1997.

Workshop organizer, Ecosystem services and biodiversity function, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA, September 2005; February 2006.

Workshop Organizer, DIVERSITAS Workshop on Sustainable Use of Biodiversity: Decision-making under Uncertainty, Montreal, CA, July 2004.

Planning Committee Chair, Learning Workshop on Game Theory, American Agricultural Economics Association Meeting, Tampa, FL, August 2, 2000.

Organizer of the Biodiversity Seminar, Oregon State University, Sept. 1995- 1998.

Planning Committee for "Emerging Ecological Policy: Winners and Losers" Conference, Corvallis, OR, September 23, 1996.

Planning Committee, Session Organizer and Session Moderator for "Ecological Risk Assessment" Conference, Corvallis, OR, November 15-16, 1994.

Referee for *Ambio*, *American Economic Review*, *American Journal of Agricultural Economics*, *American Naturalist*, *Animal Conservation*, *Applied Economics Perspectives & Policy*, *B. E. Journal of Economic Analysis & Policy*, *Biodiversity and Conservation*, *Biological Conservation*, *Biomass and Bioenergy*, *BioScience*, *Bulletin of Mathematical Biology*, *Canadian Journal of Economics*, *Canadian Public Policy*, *Cities and the Environment*, *Climatic Change*, *Computers and Operations Research*, *Conservation Biology*, *Conservation Letters*, *Contemporary Economic Policy*, *Current Opinion in Environmental Sustainability*, *Ecological Applications*, *Ecological Economics*, *Ecological Indicators*, *Ecological Modeling*, *Ecology*, *Ecology and Society*, *Ecology Letters*, *Econometrica*, *Economic Inquiry*, *Economic Journal*, *Economic Papers*, *Economic Theory*, *Ecosystems*, *Ecosystem Health*, *Ecosystem Services*, *Energy Journal*, *Energy Policy*, *Environment and Development Economics*, *Environment and Planning A*, *Environmental and Resource Economics*, *Environmental Management*, *Environmental Modeling and Assessment*, *Environmental Modelling and Software*, *Environmental Monitoring and Assessment*, *Environmental Research Letters*, *Environmental Science and Policy*, *Environmental Science and Technology*, *Euphytica*, *Fisheries*, *Forest Science*, *Foundations and Trends in Microeconomics*, *Frontiers in Ecology and*

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the Environment, Games and Economic Behavior, GAIA, Geographical Analysis, Global Change Biology, Global Ecology and Biogeography, Global Environmental Change, Growth and Change, Human and Ecological Risk Assessment, International Economic Review, International Journal of Business and Economics, International Journal of Industrial Organization, International Journal of Sustainable Development and World Economy, International Review of Economics and Finance, International Review of Environmental and Resource Economics, Journal of Agricultural and Applied Economics, Journal of Applied Ecology, Journal of the Association of Environmental and Resource Economists, Journal of Coastal Research, Journal of Development Economics, Journal of Economic Behavior and Organization, Journal of Economic Dynamics and Control, Journal of Environmental Economics and Management, Journal of Environmental Management, Journal of Flood Risk Management, Journal of Forest Economics, Journal of Housing Economics, Journal of Industrial Ecology, Journal of Planning Literature, Journal of Political Economy, Journal of Public Economics, Journal of Public Economic Theory, Journal of Regional Science, Journal of Risk and Insurance, Journal of Soil and Water Conservation, Journal of the American Water Resources Association, Journal of Theoretical Biology, the Lancet Planetary Health, Land Economics, Land Use Policy, Landscape and Urban Planning, Landscape Ecology, the Manchester School, Minnesota Journal of Law Science and Technology, Natural Resources Modeling, Nature, Nature Climate Change, Nature Communications, Networks, Philosophical Transactions of the Royal Society B, Proceedings of the National Academy of Sciences, Proceedings of the Royal Society B, Public Finance Review, Public Library of Science (PLOS) Biology, PLoS One, Rand Journal of Economics, Regional Environmental Change, Remote Sensing, Resource and Energy Economics, Resources, Review of Agricultural Economics, Review of Economic Studies, Review of Industrial Organization, Science, Scientific Advances, Solutions, Strategic Behavior and the Environment, Theoretical Ecology, Theoretical Population Biology, Trends in Ecology and Evolution, Urban Forestry and Urban Greening, Water Resources Research, Wetlands.

Reviewer for Cambridge University Press, Center for Marine Conservation, Danish Department of Development, Econorthwest (Report for U.S. Fish & Wildlife Service), Environmental Protection Agency, Finland Academy, Fondo Nacional de Desarrollo Científico y Tecnológico (Chile), HarperCollins College Publishers, MacArthur Foundation, McGraw-Hill, National Oceanic and Atmospheric Administration, National Research Foundation (South Africa), National Science Foundation, Office of Management and Budget, Richard D. Irwin Inc. Textbook Publisher, Sea Grant (CT, MA, MN), Social Sciences and Humanities Research Council of Canada.

OTHER:

Co-Founder of the Boston College Recycling Program, Manager/Coordinator
1989-1991.

Consultant, Cargill (Wetlands valuation), 2007-2008.

Consultant, Industrial Economics (Valuing ecosystem services), 2008 - .

Consultant, Von Humboldt Institute, Bogata, Colombia (Biodiversity conservation), 1996.

Consultant, Policy Research Department, Environment and Infrastructure Division, World Bank (Biodiversity conservation), 1995-1996.

Consultant, Charles Rivers Associates (Antitrust analysis), 1991-1992.

Member: American Agricultural Economics Association, American Association for the Advancement of Science, American Economic Association, Association of Environmental and Resource Economists, International Society for Ecological Economics, Society for Conservation Biology.