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## **EDUCATION**

*University of Washington, Seattle, WA*

- Ph.D., Economics, May 2001
- M.A., Economics, June 1997
- M.S., Quantitative Ecology and Resource Management (QERM), August 1998

*Harvard University, Cambridge MA*

- A.B., Biology, *cum laude*, June 1989

## **RESEARCH AND TEACHING POSITIONS**

2007 –	Associate Professor of Economics Bowdoin College
2006 –	Adjunct Scientist Marine Policy Center, Woods Hole Oceanographic Institution
2001 – 2007	Assistant Professor of Economics Bowdoin College
2003 – 2005	Senior Research Fellow Marine Policy Center, Woods Hole Oceanographic Institution
2000 – 2001	Instructor of Economics Bowdoin College
1999 – 2000	Visiting Instructor of Economics Western Washington University
1998 – 1999	Visiting Instructor Albers School of Business, Seattle University
1994 – 1998	Instructor; Teaching Assistant; Research Assistant University of Washington

## PUBLICATIONS

- Holland, D. and G.E. Herrera, 2009. Uncertainty in the management of fisheries: contradictory implications and a new approach. *Marine Resource Economics* 24(3):xxx.
- Herrera, G.E. and S. Lenhart, 2009. Spatial optimal control of renewable resource stocks. Forthcoming in Cantrell, S., C. Cosner, and S. Ruan, eds. *Spatial Ecology*. CRC/Chapman-Hall.
- Joshi, H.R., G.E. Herrera, S. Lenhart, and M. Neubert, 2009. Optimal dynamic harvest of a mobile renewable resource. *Natural Resource Modeling* 22(2):322ff.
- Herrera, G.E., 2007. Dynamic use of closures and imperfectly enforced quotas in a metapopulation. *American Journal of Agricultural Economics* 89(1):176-189.
- Neubert, M.G. and G.E. Herrera, 2007. Triple benefits from spatial resource management. *Journal of Theoretical Ecology* 1(1):5-12.
- Bauer, M., D, ed., 2006. *Harmful Algal Research and Response: A Human Dimensions Strategy*. National Office for Marine Biotoxins and Harmful Algal Blooms, Woods Hole Oceanographic Institution, Woods Hole, MA
- Herrera, G.E., 2006. The benefits of spatial regulation in a multispecies fishery. *Marine Resource Economics* 21(1):249-261.
- Herrera, G.E. and P. Hoagland, 2006. Commercial whaling, tourism, and boycotts: An economic perspective. *Marine Policy* 30(3):261-269.
- Holland, D. and G.E. Herrera, 2006. Flexible catch balancing in multispecies ITQ fisheries. *Canadian Journal of Fisheries and Aquatic Science* 63:1669-1685.
- Herrera, G.E., 2005. Stochastic bycatch, informational asymmetry, and discarding. *Journal of Environmental Economics and Management* 49(3):263-283.
- Jin, D. and G.E. Herrera, 2005. A stochastic bioeconomic model with research. *Marine Resource Economics* 20(3):249-261.
- Toguchida, J. et al. 1992. Prevalence and spectrum of germline mutations of the p53 gene among patients with sarcoma. *New England Journal of Medicine* 326:1301-1308.
- Toguchida, J. et al. 1992. Mutation spectrum of the p53 gene in bone and soft tissue sarcomas. *Cancer Research* 52:6194-6199.

## WORK IN PROGRESS

- Bioeconomic equilibrium in a bait-constrained fishery (with Rich Ryan and Daniel Holland). Under revision for *Marine Resource Economics*
- Regulated open access extraction in a spatial Gordon-Schaefer model (with Michael Neubert).
- Game-theoretic models of mobile biological natural resources (with Michael Neubert)
- Assessment of spatially heterogeneous vs. homogeneous catch quotas under imperfect information (with Daniel Holland)
- Regulated and unregulated dynamic open-access harvest of a diffusing resource stock (with Suzanne Lenhart and Michael Neubert).

## PRESENTATIONS AND CONFERENCE PAPERS

- Spatial regulation of a multispecies fishery. International Marine Conservation Congress (IMCC), Washington D.C., May 2009
- Fish in Space: Efficiency and political-economic benefits from spatial resource regulation. Invited guest lecture, Department of Economics, Colby College March 7, 2008.
- Better living through bioeconomics: 'Fish as Food.' Invited guest lecture, Hartwick College, Oneonta, NY, April 2006.
- The political economy of prudent predation. Bowdoin College Faculty Seminar, April 2006.
- Economic issues in spatially structured ecosystems. Invited participant and discussion leader, Spatial Ecology Workshop, Mathematical Biosciences Institute, Ohio State University, March 2006.
- Second-best regulation of spatially structured resources. Invited seminar presentation, Resources for the Future, Washington DC. March 2006.
- Invited workshop participant: Developing a Human Dimensions Research Strategy to Assess and Mitigate Socioeconomic Impacts of Harmful Algal Blooms, Silver Spring MD, Sept. 21-23, 2005. Sponsored by National Oceanic and Atmospheric Administration's (NOAA) National Center for Coastal and Ocean Science; report to be published 2006.
- Imperfect compliance and closed areas as second-best instruments. 3<sup>rd</sup> Workshop on Spatial-Dynamic Models of Economics and Ecosystems, International Center for Theoretical Physics, Trieste, Italy, April 2005.
- Dynamic marine protected areas as an alternative second-best under imperfect compliance. Dept. of Environmental and Resource Economics Seminar Series, Univ. of Rhode Island, December 2004.
- Imperfect compliance, credibility, and heterogeneous governance in a metapopulation. Meetings of the International Institute of Fisheries Economics and Trade (IIFET), Tokyo, June 2004.
- Whaling in the presence of ecological and market linkages and the threat of boycotts. Meetings of the International Institute of Fisheries Economics and Trade (IIFET), Tokyo, June 2004.

- Panelist: Common Access vs. Private Property Forum – of fish and forests, notions and potions: Managing access to natural resources and scientific research in the 21st century. U. of Maine Law School, Nov. 2003
- Central vs. local governance in a metapopulation. Meetings of the Northeast Agricultural and Resource Economics Association (NAREA), Portsmouth NH, June 2003.
- Promoting tourism in fishing and forestry communities: Complementarities and conflicts, with David Vail. Presented (by D.V.), US Society for Ecological Economics (USSEE) meetings, May 2003.
- A comparison of policy instruments for managing stochastic bycatch and discarding. Marine Policy Center, Woods Hole Oceanographic Institution, December 2002.
- The Drama of the Gulf of Maine: Players and Issues in Industry, Science, Policy, and Community: Reading the Riches of the Gulf Seminar Series, Curtis Library, Brunswick ME, November 2003.
- Implications of asymmetric information and uncertainty for the economics of bycatch and discarding. 2<sup>nd</sup> World Congress of Environmental and Resource Economists (WCERE), Monterey CA, June 2002.
- Three Fish, Four Fish, My Fish, Your Fish: The Economics of Poorly Informed Regulation of Bycatch and Discarding in Ocean Fisheries. Bowdoin College Faculty Seminar, Oct. 2001.

## **RESEARCH GRANTS, AWARDS AND DISTINCTIONS**

- USAID funding, “Improving reef biodiversity and sustainable fishing in the Municipality of Miches, Dominican Republic,” 2010-2011
- NSF EPSCOR funding, “Ecological and economic recovery and sustainability of the Kennebec and Androscoggin rivers, estuary, and near-shore environment,” 2010-14
- Bowdoin College Rusack Fund for Coastal Studies, “Development of a sustainable fisheries plan in Miches, Dominican Republic,” 2009 – 2011
- NSF Coupled Natural and Human Systems (CNH) program, “Collaborative Research: Direct and Indirect Coupling of Fisheries Through Economic, Regulatory, Environmental, and Ecological Linkages,” 2008 – 2012
- Maine Sea Grant funding, “The benefits and risks of increased spatial resolution in management of New England groundfish stocks” 2008 – 2009
- Appointed Adjunct Scientist, Marine Policy Center, Woods Hole Oceanographic Institution, 2006 – 2009
- Fletcher Family Research Award, 2006
- NSF Mathematical Social and Behavioral Sciences (MSBS) program, “Collaborative Research: Spatial theory for renewable resource economics,” 2006 – 2007
- ECOHAB funding for algal bloom research, 2005 – 2006
- Senior Research Fellowship, Marine Policy Center, Woods Hole Oceanographic Institution, 2002 – 2004
- University of Washington Dissertation Fellowship, 1999 – 2000

- Seafirst Dissertation Fellowship 1998 – 1999
- Langton Teaching Award, University of Washington Department of Economics, 1996 – 1997
- National Science Foundation Predoctoral Fellow, 1991 – 1993

#### **REVIEWER FOR**

- *American Journal of Agricultural Economics*
- *Canadian Journal of Fisheries and Aquatic Science*
- *Ecological Economics*
- *Journal of Environmental Economics and Management*
- *Journal of Environmental Management*
- *Marine Resource Economics*
- Rhode Island Sea Grant
- National Research Council (*Licensing Geographic Data and Services*, 2004)

#### **AFFILIATIONS**

- American Economics Association (AEA)
- Association of Environmental and Resource Economics (AERE)
- American Agricultural Economics Association (AAEA)
- Latin American and Caribbean Association of Environmental and Resource Economists (ALEAR)
- U.S. Society for Ecological Economics (USSEE)
- Northeast Agricultural and Resource Economics Association (NAREA)

#### **LANGUAGE**

- Fluent in Spanish