

Sunny L. Jardine

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EDUCATION
Ph.D., Agricultural and Resource Economics, University of California at Davis, 2013
M.A., International Development Economics, University of San Francisco, 2008
B.S., Environmental Studies, SUNY College of Environmental Science and Forestry, 2002

EMPLOYMENT
Assistant Professor, School of Marine and Environmental Affairs, University of Washington, September 2016-Present
Assistant Professor, School of Marine Science and Policy, University of Delaware, September 2013-August 2016
Joint Appointment, Department of Applied Economics and Statistics, University of Delaware, April 2014-August 2016

JOURNAL ARTICLES
Yue Tan and **S.L. Jardine**. Considering economic efficiency in ecosystem-based management: The case of horseshoe crabs in Delaware Bay, *Environmental and Resource Economics*, *In Press*.

Jardine, S.L. and J.N. Sanchirico. 2017. Estimating the cost of invasive species control, *Journal of Environmental Economics and Management*, 87, 242-257.

Jardine, S.L. and J.N. Sanchirico. 2015. Fishermen, markets, and population diversity. *Journal of Environmental Economics and Management* 74, 37-54.

Jardine, S.L., Siikamäki, J. 2014. A global predictive model of carbon in mangrove soils. *Environmental Research Letters* 9(10), 104013.

Jardine, S.L., C.-Y. C. Lin, and J.N. Sanchirico. 2014. Measuring the benefits from a marketing cooperative in the Copper River fishery. *American Journal of Agricultural Economics*, 96(4), 1084-1101.

Lampert, A., A. Hastings, E.D. Grosholz, **S.L. Jardine**, and J.N. Sanchirico. 2014. Optimal approaches for balancing invasive species eradication and endangered species management. *Science* 344(6187), 1028-1031.

Siikamäki, J., J.N. Sanchirico, **S.L. Jardine**, D. McLaughlin, and D. Morris. 2013. Blue carbon: Coastal ecosystems, carbon storage, and potential for reducing emissions. *Environment: Science and Policy for Sustainable Development* 55(6), 14-29.

Siikamäki, J., J.N. Sanchirico, **S.L. Jardine**. 2012. †Global economic potential for reducing carbon dioxide emissions from mangrove loss. *Proceedings of the National Academy of Sciences* 109(36), 14369-14374. †Featured in the BBC News and in Nature Climate Change 2(11), 773-774.

Jardine, S.L., and J.N. Sanchirico. 2012. Catch share programs in developing countries: A survey of the literature. *Marine Policy* 36(6), 1242-1254.

OTHER PUBLICATIONS

Doerr, A., S. Cardenas, **S.L. Jardine**, H. Yoon, S. Bucaram, and J.N. Sanchirico. 2013. Territorial use rights in fisheries (TURFs). In *Encyclopedia of Energy, Natural Resource, and Environmental Economics*, eds. J. Shogren. Newnes.

Jardine, S.L., and J.N. Sanchirico. 2012. Ecological economics. In *Encyclopedia of Theoretical Ecology*, eds. A. Hastings and L. Gross. Berkeley: University of California Press.

Siikamäki, J., J.N. Sanchirico, **S.L. Jardine**, D. McLaughlin, and D. Morris. 2012. Blue carbon: Global options for reducing emissions from the degradation and development of coastal ecosystems. Resources for the Future Report.

WORKS IN PROGRESS

J. Sanderman, T. Hengl, G. Fiske, K. Solvik, M. Adame, L. Benson, J. Bukoski, P. Carnell, M. Cifuentes-Jara, D. Donato, C. Duncan, E. Eid, P. zu Ermgassen, C. Ewers, L. Glass, S. Gress, **S.L. Jardine**, T. Jones, P. Macreadie, E. Nsombo, M. Rahman, C. Sanders, M. Spalding, E. Landis, *In Review*.

S.L. Jardine and J.N. Sanchirico. Parameter estimation in bioeconomic systems, *In Prep*.

A. Bates, J. Firestone, and **S.L. Jardine**, Accounting for Commercial Fishing Interests in Offshore Wind Planning, *In Prep*.

E.W. Carr and **S.L. Jardine**, The net benefits of blue carbon in living shorelines, *In Prep*.

FUNDING

National Science Foundation, Coupled Natural-Human Systems, CNH-L: Social-ecological dynamics of recreational fishery landscapes, \$1,500,000, 2017-2021. C.T. Solomon (PI), M.A. Janssen, **S.L. Jardine**, O.P. Jensen, S.E. Jones, and B.T. Van Poorten (co-PIs).

The JPB Foundation, Identifying community needs and developing emergency response strategies for coastal fishing communities impacted by harmful algal blooms, \$500,000, 2016-2017. T. Klinger (PI), E.H. Allison, S.J. Dreyer, **S.L. Jardine**, S. Moore (co-PIs).

State of Delaware's Federal Research and Development Matching Grant Program, Matching funds for the NOAA funded project: The economics of ecosystem services from oyster aquaculture, \$99,979, 2015-2016. **S.L. Jardine** (PI), T. Li, K.D. Messer, G. Ozbay (co-PIs).

National Oceanic and Atmospheric Administration, Sea Grant, Managing for biodiversity and blue carbon in the face of sea-level rise and barrier-island migration, \$527,888, 2016-2018. C.J. Hein (PI), **S.L. Jardine**, K. Gedan, J.L. Trueba (co-PIs).

National Oceanic and Atmospheric Administration, Sea Grant, Aquaculture Research Program, The economics of ecosystem services from oyster aquaculture, \$317,215, 2014-2016. **S.L. Jardine** (PI), J.W. Ewart, M. Kecinski, K.D. Messer, G.R. Parsons, J.K. York (co-PIs).

National Oceanic and Atmospheric Administration, Sea Grant, A bioeconomic analysis of ecosystem-based horseshoe crab fishery management, \$52,819, 2014-2016. **S.L. Jardine** (PI).

University of Delaware Research Foundation, Price seasonality and stock evolution, \$6,000, 2014-2016. **S.L. Jardine** (PI).

PRESENTATIONS *Conference Presentations*

Association of Environmental and Resource Economists 5th Annual Summer Conference, Estimating the cost of invasive species control, June 2016.

Northeastern Agricultural Economics Association Meeting, Estimating the cost of invasive species control, June 2015.

North American Association of Fisheries Economists Meeting, Fishermen, markets, and population diversity, May 2015.

North American Association of Fisheries Economists Meeting, Parameter estimation in bio-economic systems, May 2015.

2014 World Congress of Environmental and Resource Economists, Fishermen, markets, and population diversity, June 2014.

2013 North American Association of Fisheries Economists Biennial Forum, Measuring benefits from a marketing cooperative in the Copper River fishery, May 2013.

2012 Agricultural and Applied Economics Association Annual Meeting, Measuring benefits from a marketing cooperative in the Copper River fishery, August 2012.

Invited Talks

Northwest Fisheries Science Center, Monster Jam Seminar Series, Considering economic efficiency in ecosystem-based management: The case of horseshoe crabs in Delaware Bay, December 2017.

University of Delaware, School of Marine Science and Policy, Global economic potential for reducing carbon dioxide emissions from mangrove loss, Guest Lecture, September 2017.

Workshop: Seafood a Global Commodity, Cocoa Beach, Florida, The distribution of benefits from MSC certification, November 2016.

Gulf of Maine Research Institute, Fishermen, markets, and population diversity, October 2014.

Colby College, Economics Department and the Environmental Studies Department, Fishermen, markets, and population diversity, Guest Lecture, October 2014.

Woods Hole Oceanographic Institute, Seminar Series, Fishermen, markets, and population diversity, March 2014.

Workshop: Salmon Markets and Aquaculture Production, The Norwegian University of Life Sciences, Fishermen, markets, and population diversity, August 2013.

Environmental Defense Fund, Catch share programs in developing countries: A survey of the literature, September 2012.

**TEACHING
EXPERIENCE**

Economics of Natural Resources
(Master's, University of Delaware) Fall 2014, Fall 2015

Environmental Policy Analysis
(Undergraduate, University of Delaware) Spring 2015

Statistics for Marine and Environmental Policy
(Master's, University of Washington) Fall 2016, Fall 2017

Applied Environmental Economics
(Master's, University of Washington) Winter 2017

**STUDENT
COMMITTEES**

M.A./M.M.A. Committee Chair/ Co-Chair: (Co-Chair) Jefferson Flood (2016, University of Delaware); (Co-Chair) Meredith Kurz (2017, University of Delaware); (Chair) Diana Perry (current, University of Washington); (Chair) Lange Solberg (current, University of Washington)

M.A./M.M.A. Committee Member: Ed Carr (2015, University of Delaware); Yangpeiyun Xu (2016, University of Delaware); Michelle Dvorak (2017, University of Washington); Kiersten Dallstream (current, University of Washington)

Ph.D. Committee Chair/ Co-Chair: (Co-Chair) Alfred Yan (current, University of Delaware)

Ph.D. Committee Member: Marysia Szymkowiak (2015, University of Delaware); Alison Bates (2016, University of Delaware); John Virdin (2016, University of Delaware)

**EXTERNAL
SERVICE**

Associate Editor, *Marine Resource Economics*, July 2015-Present

Scientific and Statistical Committee, Mid-Atlantic Fisheries Management Council, December 2013 - August 2016

MS Thesis Award Committee, Northeastern Agricultural Economics Association, March 2014 - April 2016

**PROFESSIONAL
ACTIVITIES**

Journal article reviewer for: *Agricultural and Resource Economics Review* (1), *Ecological Economics* (2), *Environmental Research Letters* (1), *Environmental and Resource Economics* (3), *Journal of the Association of Environmental and Resource Economists* (1), *Journal of Environmental Economics and Management* (4), *Journal of Agriculture and Resource Economics* (1), *Marine Fisheries Review* (1), *Marine Resource Economics* (2), *Proceedings of the National Academy of Sciences* (1), *North American Journal of Fisheries Management* (1)

Grant proposal reviewer for: Oregon Sea Grant, New York Sea Grant