

KAILIN KROETZ

Fellow

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EDUCATION

University of California, Davis

- Ph.D., Agricultural and Resource Economics, September 2014
 - Dissertation Title: “The Costs of Restrictions in Tradable Permit Programs”
 - Committee: James Sanchirico (chair), Douglas Larson, Daniel Lew, and James Wilen
 - Fields: Natural Resource and Environmental Economics, Econometrics
- M.A., Agricultural and Resource Economics, September 2011
- M.A. equivalent coursework in Population Biology

Dartmouth College

- B.A., with honors, 2005
 - Thesis Title: “The Environmental Tradeoffs of Various Space Heating Fuel Options: The Case for Wood”
 - Thesis Adviser: Andrew Friedland
 - Majors: Mathematics, Environmental Studies

Cairns Campus of James Cook University, Australia

- Coursework in Ecology and Environmental Policy, Fall 2003

PROFESSIONAL EXPERIENCE

Current

- Senior Research Fellow, [Environment for Development](#), May 2015-present
- Fellow, Resources for the Future, September 2014-present

Previous

- Project Consultant, Cap Log Group, LLC, 2010-2012
- Graduate Student Researcher, University of California, Davis, 2009-2010
- Senior Research Analyst, Industrial Economics, Incorporated, 2005-2008
- Legislative Researcher, Rockefeller Center Policy Research Shop, Dartmouth College, 2004-2005
- Intern and Consultant, Biomass Energy Resource Center, 2004-2005
- Undergraduate Student Researcher, Dartmouth College, 2004

PUBLICATIONS

Peer-Reviewed Journal Articles

Kroetz, K., Sanchirico, J.N., Peña-Torres, J., and D. Corderi Novoa. 2016. Economic Impacts of the Chilean Jack Mackerel ITQ System. Accepted *Marine Resource Economics*.

→ Inter-American Development Bank Working Paper Series (DB-WP-672) available [here](#).

Kroetz, K., Sanchirico, J.N., and D.K. Lew. 2015. [Efficiency Costs of Social Objectives in Tradable Permit Programs](#). *Journal of the Association of Environmental and Resource Economists* 2(3): 339-366.

→ Associated RFF Discussion Paper available [here](#).

Kroetz, K. and J.N. Sanchirico. 2015. [The Bioeconomics of Spatial-Dynamic Systems in Natural Resource Management](#). *Annual Review of Resource Economics*. 7(1).

→ Associated RFF Discussion Paper available [here](#).

Kroetz, K., Sanchirico, J.N., Armsworth, P.R. and H.S. Banzhaf. 2014. [Benefits of the Ballot Box for Species Conservation](#). *Ecology Letters* 17 (3): 294-302.

→ Full-text available [here](#).

Kroetz, K.M. and A.J. Friedland. 2008. [Comparing Costs and Emissions of Northern New England Space Heating Fuel Options](#). *Biomass and Bioenergy* 32:1359-1366 (10.1016/j.biombioe.2008.04.003).

Peer-Reviewed Book Chapters

Fuller, K., Kling, D., **Kroetz, K.**, Ross, N. and J.N. Sanchirico. 2013. [Economics and Ecology of Open-Access Fisheries](#). In: Shogren, J.F., (ed.) *Encyclopedia of Energy, Natural Resource, and Environmental Economics*, Vol. 2, pp. 39-49 Amsterdam: Elsevier.

→ To request a copy of the paper via email click [here](#).

Other Publications

Kroetz, K. and J.N. Sanchirico. 2010. [Economic Insights into the Costs of Design Restrictions in ITQ Programs](#). Resources for the Future Report.

Breetz, H., Fisher-Vanden, K., Garzon, L., Jacobs, H., **Kroetz, K.** and R. Terry. 2004. [Water Quality Trading and Offset Initiatives in the U.S.: A Comprehensive Survey](#). Prepared for the U.S. EPA, National Center for Environmental Economics, Washington, D.C.

WORKING PAPERS

Recreational Leasing of Alaska Commercial Halibut Quota: The First Two Years of the Guided Angler Fish Provision (with Daniel K. Lew and James N. Sanchirico)

→ RFF Discussion Paper (DP 16-39) available [here](#).

Examination of the Peruvian Anchovy Individual Vessel Quota (IVQ) System (with James N. Sanchirico, Elsa Galarza, David Corderi Novoa, Mauricio Collado Duran, and Elaine Swiedler*)

→ Inter-American Development Bank Working Paper Series (IDB-WP-749) available [here](#).

Dynamic Efficiency Costs of Non-Efficiency Objectives in Tradable Permit Programs (with James N. Sanchirico and Daniel K. Lew)

Optimal Management of Spatial-Dynamical Natural Resource Systems: The Addition of Dispersal Controls to Traditional Metapopulation Models (with James N. Sanchirico)

Characterizing the Dynamic Evolution of Fishing Permit Portfolios using Network Analysis (with Ethan Addicott*, Matthew N. Reimer, James N. Sanchirico and Daniel K. Lew)

The Economics of Ecosystem Based Management (with Yusuke Kuwayama and [Caroline Vexler*](#))

Competing Impacts of Local Actors on Large Scale Conservation Outcomes (with James N. Sanchirico and Paul R. Armsworth)

*RFF interns and RAs

PRESENTATIONS

Scheduled

- Environment for Development Annual Meeting, Pucón, Chile, November 10-13, 2016

Past

- Implications of Catch Share Design on Community Vulnerability and Fishery Participation, *International Institute of Fisheries Economics and Trade (IIFET)*, July 12 - 15, 2016
- *Triangle Resources and Environmental Economics Seminar Series (TREE)*, April 7, 2016
- *Montana State University*, October 12, 2015
- Dynamic Efficiency Costs versus Benefits of Non-Efficiency Objectives in Tradable Permit Programs, *2015 Occasional Workshop*, October 2 - 3, 2015
- Potential Benefits of Ecosystem-Based Forage Fish Management, *2015 American Fisheries Society Meeting*, August 16 - 20, 2015

- Optimal Management of Spatial-Dynamical Natural Resource Systems: The Addition of Dispersal Controls to Traditional Metapopulation Models, *2015 Annual ESA Meeting*, August 9 - 15, 2015
- Optimal Management of Spatial-Dynamical Natural Resource Systems: The Addition of Dispersal Controls to Traditional Metapopulation Models, *4th Annual AERE Summer Conference*, June 3 - 5, 2015
- Dynamic Efficiency Costs of Non-Efficiency Objectives in Tradable Permit Programs, *North American Association of Fisheries Economists (NAAFE) Forum 2015*, May 19 - 22, 2015
- The Tradeoff between Economic Efficiency and Non-Efficiency Objectives in Tradable Permit Program Design, *Seminars in Environmental and Resource Economics at Virginia Tech*, April 24, 2015
- Dynamic Efficiency Costs of Non-Efficiency Objectives in Tradable Permit Programs, *NMFS-Sea Grant College Graduate Fellowship Program in Population Dynamics and Marine Resource Economics Annual Meeting*, June 16 - 18, 2014
- Dynamic Efficiency Costs of Non-Efficiency Objectives in Tradable Permit Programs, *Resources for the Future*, October 31, 2013
- Dynamic Efficiency Costs of Non-Efficiency Objectives in Tradable Permit Programs, *UC Davis Environmental and Energy Economics Workshop*, October 25, 2013
- Dynamic Efficiency Costs of Non-Efficiency Objectives in Tradable Permit Programs, *Camp Resources XX*, August 4 - 6, 2013
- Dynamic Efficiency Costs of Non-Efficiency Objectives in Tradable Permit Programs, *3rd Annual AERE Summer Conference, sponsored session for graduate student research*, June 6 - 8, 2013
- Efficiency Costs of Social Objectives in Tradable Permit Programs, *North American Association of Fisheries Economists (NAAFE) Forum 2013*, May 21 - 24, 2013
- Dynamic Efficiency Costs of Non-Efficiency Objectives in Tradable Permit Programs, *NMFS-Sea Grant College Graduate Fellowship Program in Population Dynamics and Marine Resource Economics Annual Meeting*, April 30, 2013
- Costs of Restrictions in Tradable Permit Programs, *Giannini Foundation of Agricultural and Resource Economics, Student Conference*, May 26, 2012
- Efficiency Costs of Restrictions in Tradable Permit Programs, *Agricultural and Resource Economics 2012 Open House (for prospective PhD students)*, March 9, 2012
- Efficiency Costs of Social Objectives in Tradable Permit Programs, *PERC*, July 26 - 29, 2011
- The Efficiency Costs of Restrictions on Quota Trading: The Case of the Alaskan Halibut Individual Transferable Quota (ITQ) Program, *AERE Summer Conference*, June 10, 2011
- Insights into the Economic Costs of Restrictions in Tradable Permit Programs, *UC Davis 2011 Interdisciplinary Graduate and Professional Student Symposium*, April 22, 2011
- The Environmental Tradeoffs of Various Space Heating Fuel Options: The Case for Wood, *The Campaign for the Dartmouth Experience - NYC Launch*, November 13, 2004

OTHER PUBLICATIONS

- [Evaluating Fishery Catch Share Programs in a Developing Country Context](#), Common Resources Blog Post, *April 26, 2016*
- [The Costs of Competing Goals in Fishery Management](#), Resources Magazine, *September 24, 2015*
- [Competing Goals in Fishery Management: A Case Study in Alaska](#), Common Resources Blog Post, *March 25, 2015*

RESEARCH FUNDING

- "Network Analysis of the Dynamic Evolution of Alaska Fishing Portfolios," National Marine Fisheries Service, co-PI with Matthew N. Reimer and James N. Sanchirico, \$50,000, 2016-2017
- "The Economic Effects of the Guided Angler Fish Leasing Program on the Halibut IFQ Program," National Marine Fisheries Service, co-PI with James N. Sanchirico, \$42,000, 2015-2016
- "Economic Evaluation of Market-Based Fisheries Policies in Latin America (2)," Inter-American Development Bank, co-PI with James N. Sanchirico, \$30,000, 2015
- "Implications of Catch Share Design on Community Vulnerability and Fishery Participation," National Marine Fisheries Service, co-PI with James N. Sanchirico, \$50,000, 2015-2016

- "Evaluation of Market-Based Fisheries Policies in Latin America," Inter-American Development Bank, \$32,359, 2014-2015
- Association of Environmental and Resource Economists (AERE) Graduate Student Travel Award, \$500, June 2013
- University of California, Davis, College of Agricultural and Environmental Sciences, Henry A. Jastro Research Award, \$1,900, June 2013
- National Institute for Mathematical and Biological Synthesis (NIMBioS), Short-term Visitor, January 2013
- University of California, Davis, College of Agricultural and Environmental Sciences, Henry A. Jastro Research Award, \$1,000, June 2012
- "Evaluating the Effectiveness of Stock Rebuilding Plans Required by the MSA," National Academy of Sciences, \$3,000, 2012
- "Efficiency Costs of Restrictions in Tradable Permit Programs: Analysis of the Alaskan Halibut and Sablefish Individual Fishing Quota System," National Marine Fisheries Service - Seagrant Marine Resource Economics Fellowship, \$77,000, July 2012-June 2014

AWARDS

- Association of Environmental and Resource Economists Dissertation Award (2015)
- University of California, Davis, Outstanding Graduate Student Teaching Assistant Award (June 2012)
- University of California, Davis, Graduate Scholars Fellowship (2008-2009)
- Dartmouth College Presidential Scholarship (2004)

TEACHING EXPERIENCE

Teaching Assistant, University of California, Davis

- Department of Agricultural & Resource Economics and Economics, Winter 2012
 - ARE/ECN 240A: Econometric Methods, with Jim Chalfant (PhD Level)
 - Average overall student rating: 4.8/5
- Department of Agricultural & Resource Economics, Spring 2011
 - ARE 258: Demand Analysis, with Travis Lybbert (Masters Level)
 - Average overall student rating: 4.8/5
- Department of Agricultural & Resource Economics, Spring 2010
 - ARE 106: Econometrics, with Jim Chalfant
 - Average overall student rating: 4.9/5
- Department of Agricultural & Resource Economics, Fall 2009
 - ARE 155: Linear Programming, with John Constantine
 - Average overall student rating: 4.8/5

SERVICE

- **Program Committee Member**, 5th Annual Summer Conference of the Association of Environmental and Resource Economists (AERE)
- **Scientific Review Committee**, [National Socio-Environmental Synthesis Center \(SESYNC\)](#), December 2015-present
- **Referee**, *Annals of the New York Academy of Sciences*, *Conservation Letters*, *Ecological Economics* (2), *Journal of Environmental Economics and Management*, *Journal of the Association of Environmental and Resource Economists*, *Marine Resource Economics* (2), *PNAS*