

# KAILIN KROETZ

Fellow

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## EDUCATION

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### 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

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### 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

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### 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](#).

Beaudrot, L. et al. 2016. Limited Carbon and Biodiversity Co-Benefits for Tropical Forest Mammals and Birds. *Ecological Applications* 16.4: 1098-1111.

**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

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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](#). *Under Review*

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](#). *R & R*

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

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- Competing Impacts of Local Actors on Large Scale Conservation Outcomes, *Northeastern Agricultural and Resource Economics Association (NAREA) meetings*, June 11-13, 2017
- Evaluation of the Chilean Jack Mackerel Individual Transferable Quota (ITQ) System, *Environment for Development Annual Meeting*, Pucón, Chile, November 10-13, 2016
- 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

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- [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

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- "Socioeconomic Impacts of Fisheries Management Changes: Connecting Fishery Policies to Fishery Portfolios," North Pacific Research Board (NPRB), co-PI with Daniel K. Lew, Matthew N. Reimer and James N. Sanchirico, \$300,000, 2017-2020
- "Toward a Systematic Understanding of the Impacts of Seafood Fraud," Angell Foundation, Co-PI with Josh Donlan, \$250,000, 2017-2019

- "Gains from Synchronizing Top-Down and Bottom-up Conservation Activities within Agricultural Landscapes," USDA AFRI, co-PD with Paul R. Armsworth and James N. Sanchirico, \$500,000, 2017-2019
- "Network Analysis of the Dynamic Evolution of Alaska Fishing Portfolios," National Marine Fisheries Service, co-PI with Matthew N. Reimer and James N. Sanchirico, \$45,000, 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

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- 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

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### 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

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- **Program Committee Member**, 5th and 6th Annual Summer Conference of the Association of Environmental and Resource Economists (AERE)
- **Scientific Review Committee**, [National Socio-Environmental Synthesis Center \(SESYNC\)](#), December 2015-present

- **Distinguished and Life Member Awards and Outstanding Public Service through Economics Committee**, Northeastern Agricultural and Resource Economics Association (NAREEA), 2017-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 (3), PNAS, Resource and Energy Economics
- **Other review activities**, Alaska Sea Grant proposal review

*Updated 10/17/2017*