

## **Christopher M. Anderson**

Associate Professor of Fisheries Economics  
School of Aquatic and Fishery Sciences  
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### **Education**

California Institute of Technology, Ph.D., Social Science, 2001

Brown University, Sc.B. Applied Math-Economics (Honors), 1996

### **Appointment**

2012-: Associate Professor of Fisheries Economics, School of Aquatic and Fishery Sciences, University of Washington

2006-2011: Associate Professor of Experimental Economics, Department of Environmental and Natural Resource Economics, University of Rhode Island; duties include Director of the Policy Simulation Laboratory, research, teaching and service.

2000-2006: Assistant Professor of Environmental & Natural Resource Economics, University of Rhode Island

2007 (June-December): Visiting Professor, University of Alaska, Anchorage

### **Awards**

*Research Scientist of the Year*, URI College of the Environment and Life Sciences, 2005

*Teacher of the Year*, URI College of the Environment and Life Sciences, 2005

### **Research and Educational Interests**

My research uses the tools of experimental economics, game theory and applied econometrics to understand the decisions underlying natural resource use, and to design methods and institutions for managing them. Market-based applications include using laboratory experiments to evaluate different sealed bid auctions for fishing quota in New Zealand; simultaneous multi-round auctions for oil tract leases in the Gulf of Mexico; and a transition period of leasing in new transferable fishing quota systems, prior to trading permanent allowances, to facilitate price discovery and hampers speculation in the market for the newly created asset. Current projects involve building a new dynamic common pool resource environment for evaluating catch share fishery management, which allows different groups of harvesters can pursue the same fish stock under management rules that present different harvesting incentives; designing theoretically, and testing in the lab and in the field, incentive compatible and second-best mechanisms for attracting public payments in support of ecosystem service goods; and developing a new, rapid assessment indicators metric for wealth generation in developed and developing country fisheries. I teach courses in introductory resource economics at the undergraduate and graduate levels, and a PhD seminar in fishery economics.

### **Publications**

Anderson, C. M. and C. F. Camerer. 2000. Experience-Weighted Attraction Learning in Sender-Receiver Signaling Games. *Economic Theory* 16:689-718. Reprinted in *Advances in Experimental Markets*, ed. T. Cason and C. Noussair, New York: Springer, 2002.

Johnston, R., S. Swallow, D. Bauer and C. Anderson. 2003. Preferences for Residential Development Attributes and Support for the Policy Process: Implications for Management and Conservation of Rural Landscapes. *Agricultural and Resource Economics Review* 32(1):65-82.

Anderson, C. M., C. R. Plott, K.-I. Shimomura and S. Granat. 2004. Global Instability in Experimental General Equilibrium: The Scarf Example. *Journal of Economic Theory* 115(2):209-249. (*Lead article*)

Anderson, C. M. and J. R. King. 2004. Equilibrium Behavior in the Conservation Easement Game. *Land Economics* 80(3): 355-374.

King, J. R. and C. M. Anderson. 2004. The Marginal Property Tax Rate Effects of Conservation Easements: A Vermont Case Study. *American Journal of Agricultural Economics* 86(4):919-932.

Anderson, C.M. 2004. How Institutions Affect Outcomes in Laboratory Tradable Fishing Allowance Systems. *Agricultural and Resource Economics Review* 33(2):282-297.

Anderson, C.M. and J. G. Sutinen. 2005. A Laboratory Assessment of Tradable Fishing Allowances. *Marine Resource Economics* 20(1):1-24. (*Lead article*)

- Anderson, C.M. and L. Putterman. 2006. Do Non-strategic Sanctions Obey the Law of Demand? The Demand for Punishment in the Voluntary Contribution Mechanism. *Games and Economic Behavior* 54(1):1-24. (*Lead article*).
- Anderson, C., C. Das and T. Tyrrell. 2006. Parking Preferences among Tourists in Newport, Rhode Island. *Transportation Research Part A: Policy and Practice* 40(4):334-353.
- Anderson, C., and D. Holland. 2006. Auctions for Initial Sale of Annual Catch Entitlement. *Land Economics* 82(3):333-52.
- Anderson, C.M. and J.G. Sutinen. 2006. The Effect of Initial Lease Periods on Price Discovery in Laboratory Tradable Fishing Allowance Markets. *Journal of Economic Behavior and Organization* 61(2):164-180.
- Schnier, K.E. and C.M. Anderson. 2006. Decision Making in Patchy Resource Environments: Spatial Misperception of Bioeconomic Models. *Journal of Economic Behavior and Organization* 61(2):234-254.
- Anderson, C., M Freeman and J. Sutinen. 2008. A Laboratory Analysis of Industry Consolidation and Diffusion under Tradable Fishing Allowance Management. In *Environmental Economics, Experimental Methods*, ed. T. Cherry, S. Kroll and J. Shogren. New York: Routledge. 29-47.
- Anderson, C., Y.-A. Park, Y.-T. Chang, C.-H. Yang, T.-W. Lee and M. Luo. 2008. A Game-Theoretic Analysis of Competition Among Container Port Hubs: The Case of Busan and Shanghai. *Maritime Policy and Management* 35(1):5-26. (*Lead article*)
- Das, C., C. Anderson and S. Swallow. 2009. Estimating Distributions of Willingness to Pay for Heterogeneous Populations. *Southern Economics Journal* 75(3): 593-610. (*Lead article*)
- Anderson, C., J. Opaluch and T. Grigalunas. 2009. The Demand for Import Services at US Container Ports. *Maritime Economics and Logistics* 11(2): 156-185.
- Anderson, C. 2010. An Experimental Analysis of a Points-based System for Managing Multispecies Fisheries. *Agricultural and Resource Economics Review* 39(2):227-44.
- Anderson, C. 2012. Ambiguity Aversion in Multi-armed Bandit Problems. *Theory and Decision* 72(1):15-33.
- Scheld, A., C. Anderson and H Uchida. 2012. The Economic Effects of Catch Shares: The Rhode Island Fluke Sector Pilot Program. *Marine Resource Economics* 27(3):203-28. (*Lead article*)
- Minzner, M. and C. Anderson. 2013. Do Warrants Matter? *Review of Law and Economics* 9(1):169-96.
- Freeman, M. and C. Anderson. 2013. Modeling Effort and Lobbying in a Heterogeneous Common Pool Resource Setting. *Environmental and Resource Economics* 56(3):399-414.
- Anderson, C. and H. Uchida. Forthcoming. An Experimental Examination of Fisheries with Concurrent Common Pool Resource and Individual Quota Management. *Economic Inquiry*.
- Uchida, H., H. Wakamatsu, C. Roheim and C. Anderson. Forthcoming. Do Japanese Consumers Care about Sustainable Fisheries: Evidence from an Auction of Ecolabeled Seafood. *Australian Journal of Agricultural and Resource Economics*.

### Select Technical Reports

- Anderson, C., and J. Sutinen. 2004. A Laboratory Assessment of Sealed-bid Auction Mechanisms for Tendering New Annual Catch Entitlement Offerings. Prepared for the Seafood Industry Council and the Ministry of Fisheries (New Zealand). 17pp.
- Grigalunas, T., C. Anderson and J. Opaluch. 2006. Model System for Assessing the Economic Effects of Potential Maritime Related Actions and Events Affecting U.S. Containerized Transportation. Prepared for United States Department of Homeland Security. 151pp.
- Anderson, C. 2008. An Experimental Analysis of a Points-based System for Managing Multispecies Fisheries. Prepared for the NOAA Northeast Fisheries Science Center. 39pp.
- Opaluch, J., T. Grigalunas, C. Anderson, D. Jin and S. Trandafir. 2009. Policies to Affect the Pace of Leasing and Revenues in the Gulf of Mexico. Prepared for the United States Department of Interior Minerals Management Service.
- Anderson, J. and Anderson, C. 2010. Fishery Performance Indicators. Prepared for the International Coalition of Fisheries Associations. 132pp.
- Anderson, C. 2011. Bering Sea/Aleutian Island Crab Economic Data Report Center for Independent Experts Review Meeting: Panel Chair's Summary Report. 21pp.
- Chu, J., J. Anderson and C. Anderson. 2012. Evaluation of New Fisheries Performance Indicators (FPIs): A Case Study of the Blue Swimming Crab Fisheries in Indonesia and Philippines. The World Bank. 121pp.
- Anderson, C., T. Sproul and H. Uchida. 2013. Experiments in Risk Pooling with Limiting Bycatch Species. NOAA Technical Report. 31pp.

### Select Competitive Grant Support (over \$4.1 million total)

- NSF (Subcontract), \$8,200 (12/01-12/02), Is "Punishment" in Voluntary Contribution Mechanisms a Normal Good? (PI, with L. Putterman, Brown University)

DOT/URI Transportation Center, \$50,000 (7/02-6/03), Integrated Transportation Pricing Strategy for Newport (co-PI, with T. Tyrell, PI)

Rhode Island Sea Grant, \$155,000 (3/03-2/04), Laboratory Testbedding Transferable Fishing Allowance Policies and Institutions: An Application to the Rhode Island Lobster Fishery (PI, with co-PIs J. Gates and J. Sutinen)

Rhode Island Agricultural Experiment Station, \$60,000+tuition waiver (10/03-9/06), Experimental Analysis of the Political Economics of Fishery Management (PI, with J. Sutinen, PI)

NOAA/NMFS Cooperative Agreement, \$83,000 (10/04-9/05), Experimental Economics in the Design of Lease/Trade Rules

USDA National Research Initiative, \$615,000 (1/05-12/08), Validating Best Forest Management Practices around Vernal Pools: Amphibian Metapopulations, Harvester Adoption Costs and Public Values (co-PI, with S. Swallow, PI, and co-PIs K. Schnier and P. Paton)

NOAA/NMFS Cooperative Marine Education and Research, \$77,100 (10/05-9/07), Consequences of Transferable Days-at-Sea on Input Substitution in the Northeast Multispecies Fishery: Experimental Analysis of Capital Stuffing (PI, with J. Sutinen, co-PI)

Rhode Island Sea Grant, \$190,500 (3/06-2/08), Laboratory Testbedding of Transferable Allowance Policies and Institutions: Tradable Output and Input Allowances (PI, with J. Sutinen, co-PI)

USDA Conservation Innovation Grant, \$595,400 (11/05-10/08), Developing a Market for Nesting Bird Habitat on Active Farm Hayfields (co-PI, with S. Swallow, PI, and Eco-Asset Markets, co-PI)

DOT/URI Transportation Center, \$250,000 (5/06-12/08), A Strategic Model for the Optimal Scaling of Container Ports (PI, with T. Grigalunas, M. Luo and Y-T Chang (Inha U., Korea), co-PIs).

Rhode Island Sea Grant, \$190,000 (3/08-2/10), Developing Community-based Fishery Management in New England (co-PI, with H. Uchida, PI)

USDA/AFRI Rural Development, \$500,000 (11/08-10/11), Developing Ecosystem Services Business as New Revenues for Farms in Communities facing Exurban Development (co-PI, with S. Swallow, PI, and K. Dame, co-PI)

NOAA/Fisheries and Environmental Defense Fund, \$55,625 (9/09-8/10), An Experimental Analysis of ITQs in the General Category Scallop Fishery

NOAA/Fisheries, \$227,000 (6/10-12/11), An Economic Analysis of the Rhode Island Fluke Sector Pilot Program and Implications for Upcoming Regional Implementation (PI, with H. Uchida, PI and R. Pollnac, PI)

USDA/AFRI Small and Medium-Sized Farms, \$500,000 (3/11-2/14), Making Markets for Ecosystem Services for Farms on the Rural Fringe: Vermont Grasslands for Hay and Nesting Songbirds (co-PI, with S. Swallow, PI)

Pollock Conservation Cooperative Research Center, \$400,000, Modeling Biological and Economic Implications of Layered Management Measures for Bering Sea Groundfish Fisheries, (6/13-5/15) (co-PI with Gunnar Knapp, PI, Matthew Reimer, Ray Hilborn)

The World Bank, \$100,000, (4/13-3/14) A Global Study of Performance in Tuna Fisheries.

Bristol Bay Science and Research Institute, \$98,000 (6/13-12/14), Economic Analysis of Bristol Bay Salmon Escapement Goals.

### Major Professor

Student	Degree	Employment	Years	Complete
Jonathan King	M.S.	Partner, Northern Economics	2000-2002	August 2002
Robert Griffin	M.S.	URI PhD	2003-2005	December 2005
Koel Ghosh	Ph.D.	Penn State PhD	2000-2001	Transferred
Samuel Bwalya	Ph.D.	Zambian Revenue Authority	2001-2005	December 2004
Erica Meyers	M.S.	Berkeley PhD	2005-2007	May 2007
Chhandita Das	Ph.D.	NEFSC (contractor)	2002-2007	August 2007
Sudha Kannan	Ph.D.	Michigan State PhD	2005-2008	Transferred
Daniel Meehan	M.S.	Lexecon Consulting	2006-2008	May 2008
Simona Trandafir*	Ph.D.	URI Adjunct	2007-2009	May 2009
Matthew Freeman**	Ph.D.	Asst. Professor, Mississippi State	2003-2009	August 2009
Mark Sasse	M.S.	Citizens Bank	2007-? (part tm)	
Megan Nelson	M.S.		2009-?	
Robert Griffin	IGERT Ph.D.	Stanford University Postdoc	2006-2011	August 2011

Andrew Scheld	Ph.D.	UW-SAFS Student	2008-?	
Zhi Li	Ph.D.	UW SAFS Student	2008-?	
Jocelyn Wang	Ph.D.	UW-Econ student	2012-?	
Jennifer Meredith	Ph.D.	UW- Econ student	2013-?	
Marie Guldin	Ph.D.	UW-Econ/NWFSC	2013-?	

\* 2009 URI Best Transportation Dissertation Award: *A Strategic Model for Investment and Competition Among Container Ports*

\*\* 2011 North American Association of Fisheries Economists Best Student Paper Award: *An Experimental Analysis of the Lobbying Activity of Fishers with Heterogeneous Preferences*

### Major Professional and University Service

Scientific and Statistical Committee, North Pacific Fishery Management Council <i>Advise Council on economic and social science issues</i>	2013-present
<i>North American Journal of Fisheries Management</i> <i>Associate Editor for Economics, Business and Social Science</i>	2005-present
Marine Resource Economics Foundation Board of Directors, (President 2008-13) <i>Manage the foundation that publishes Marine Resource Economics</i>	2008-present
Department of Environmental & Natural Resource Economics, Graduate Program Director	2006-2011
Rhode Island Marine Fisheries Council, member (Gubernatorial appointee) <i>Make recommendations to the Director of the Department of Environmental Management on state-jurisdiction fishery management issues</i>	2007-2011
University of Rhode Island Academic Program Review Committee, Chair <i>Lead committee in developing new program review process that supports the university's Academic Plan and aligns with national accreditation standards in advance of focused rereview</i>	2010-2011