

Renato Molina

Assistant Professor in Environmental and Resource Economics
Rosenstiel School & Department of Economics · University of Miami
✉ renato.molina@rsmas.miami.edu ☎ +1 (305) 421 4055 🌐 renatomolinah.com

EMPLOYMENT

Rosenstiel School of Marine and Atmospheric Science, Department of Economics, University of Miami <i>Assistant Professor in Environmental and Resource Economics</i>	August 2018 - Present Miami, FL, USA
Sustainable Fisheries Group, UC Santa Barbara <i>Project Researcher</i>	October 2013 - June 2018 Santa Barbara, CA, USA
Facultad de Recursos Naturales, PUCV <i>Lecturer</i>	March 2010 - August 2016 Valparaíso, Chile
Bren School, UC Santa Barbara <i>Graduate Research Assistant</i>	November 2012 - August 2013 Santa Barbara, CA, USA
School of Marine Science, PUCV <i>Research Assistant</i>	July 2007 - December 2009 Valparaíso, Chile
Private Consultant <i>Freelance Industrial Operations Modeler</i>	July 2007 - December 2009 Valparaíso, Chile

EDUCATION

University of California, Santa Barbara Doctor of Philosophy in Economics	2018
University of California, Santa Barbara Master of Arts in Economics	2015
University of California, Santa Barbara Master of Environmental Science and Management	2013
Pontificia Universidad Católica de Valparaíso Professional Degree of Aquaculture Engineering	2010
Pontificia Universidad Católica de Valparaíso Bachelor of Sciences in Fisheries Science	2009

TEACHING

Economics of Fisheries Management Instructor - <i>Graduate and Government Officials</i>	2017 - 2018 UC Santa Barbara, USA
Economics of Environmental Management Teaching Assistant - <i>Graduate</i>	2017 UC Santa Barbara, USA

Intermediate Macroeconomic Theory

Teaching Assistant - *Undegraduate*

2016
UC Santa Barbara, USA

Operations Research

Instructor - *Undegraduate*

2010 - 2011
PUCV, Chile

Production and Operations Management

Instructor - *Undegraduate*

2010 - 2011
PUCV, Chile

Operations Research

Teaching Assistant - *Undegraduate*

2007 - 2009
PUCV, Chile

RESEARCH

Working papers

Why Natural Disasters are a Disaster in Common Property Resources

Transboundary Marine Protected Areas (with C. Costello)

The Economic Impact of Modern Piracy on Global Shipping (with G. McDonald)

Peer-reviewed

Palacios-Abrantes, J., Herrera-Correal, J., Rodriguez, S., Brunkow, J., & **Molina, R.** 2018. Evaluating the Bio-Economic performance of a Callo de hacha (*Atrina Maura*, *Atrina tuberculosa* & *Pinna rugosa*) fishery restoration plan of La Paz Cove, Mexico. PLOS One. [Accepted]

Liu, O., **Molina, R.**, Wilson, M., & Halpern, B. 2018. Global opportunities for mariculture development to promote human nutrition. PeerJ 6:e4733; DOI 10.7717/peerj.4733.

Molina, R., Cerda, R., González, E., & Hurtado, F. 2012. Simulation model of the scallop (*Argopecten purpuratus*) farming in northern Chile: some applications in the decision making process. Latin American Journal of Aquatic Resources, 40(3): 679-693.

Book chapters

Norambuena, R., González, E., **Molina, R.** & Gomez, A. 2017. Impacts of Climate Change on Marine Fisheries and Aquaculture in Chile (Chapter 10 - Aquaculture). In: Phillips, B. & Pérez, M. (eds) The Impacts of Climate Change on Fisheries and Aquaculture. John Wiley & Sons, Inc., Hoboken, NJ, USA.

González, E., Norambuena, R., **Molina, R.** & Thomas, F. 2013. Evaluación de Potenciales Impactos y Reducción de la Vulnerabilidad de la Acuicultura al Cambio Climático en Chile [Potential Impacts and Reduction of the Aquaculture Vulnerability to Climate Change in Chile]. In: Cambio climático, pesca y acuicultura en América Latina: Potenciales impactos y desafíos para la adaptación. Taller FAO/Centro de investigación Oceanográfica en el Pacifico Sur Oriental (CO-PAS), Universidad de Concepción, Concepción, Chile. FAO Actas de Pesca y Acuicultura. No. 29. Roma, FAO, 275-335p.

Presentations

Molina, R. 2017. Common Property Resources, Property Rights and Natural Disasters. NAAFE Forum 2017: The Economics of Aquaculture, Fisheries and Seafood Trade: Managing the Socio-Ecology of Sustainable Marine Resource Use. North American Association of Fisheries Economists. La Paz, Mexico.

Molina, R. & Costello, C. 2017. Transboundary Marine Protected Areas. NAAFE Forum 2017: The Economics of Aquaculture, Fisheries and Seafood Trade: Managing the Socio-Ecology of Sustainable Marine Resource Use. North American Association of Fisheries Economists. La Paz, Mexico.

Molina, R. 2015. Gestión de Pesquerías de Pequeña Escala a Través de Concesiones Geográficas [Management of Small Scale Fisheries through Territorial Use Rights]. Taller Internacional “Experiencia Global en el Fomento y Gobernabilidad de Sistemas de Innovación en Pesca y Acuicultura” [International workshop on “Global Experience in the Promotion and Governance of Innovation Systems in Fisheries and Aquaculture”]. Peruvian Government and The World Bank. Lima, Peru.

Molina, R., Costello, C., Gaines, S. & Lester S. 2014. Implications of Different Spatial Management Strategies when Establishing Territorial User Fishing Rights and Marine Protected Areas for Inter-connected Marine Systems. The Seventeenth International Conference of the International Institute of Fisheries Economics & Trade (IIFET). Brisbane, Australia.

Molina, R., Costello, C., Gaines, S. & Lester S. 2014. Potential Benefits of a Transboundary Marine Protected Area under no Cooperation between Countries. The Seventeenth International Conference of the International Institute of Fisheries Economics & Trade (IIFET). Brisbane, Australia.

Molina, R., Cerda, R., González, E. & Hurtado, F. 2010. Simulation Models as a decision making tool in aquaculture: the case of scallop farming in northern Chile. 15 pages. In: Proceedings of the International Conference: Environment and Resources of the South Pacific of the Pontificia Universidad Católica de Valparaíso, November 22-26, 2010, Viña del Mar, Chile. Special Issue of the Latin American Journal of Aquatic Research.

Cerda, R., González, E. & **Molina, R.**, 2010. Bioeconomic Dynamic Modeling of the Chilean Southern Groundfish Fishery. 10 pages. In: Proceedings of the Fifteenth Biennial Conference of the International Institute of Fisheries Economics & Trade, July 13-16, 2010, Montpellier, France: Economics of Fish Resources and Aquatic Ecosystems: Balancing Uses, Balancing Costs. Compiled by Ann L. Shriver. International institute of Fisheries Economics & Trade, Corvallis, Oregon, USA, 2008. CD ROM. ISBN 0-9763432-6-6.

AWARDS

White Family Fellowship 2017
University of California, Santa Barbara
Recognized for outstanding academic achievement in the Department of Economics.

Lindau Nobel Laureate Meetings Fellowship 2017
Foundation Lindau Nobel Laureate Meetings

Nominated and selected to attend the 6th Lindau Meeting on Economic Sciences at Lindau, Germany.

Honorable Mention 2017

North American Association of Fisheries Economists

Runner-up for Best Student Paper in the 2017 NAAFE forum held in La Paz, Mexico.

Ronald Coase Fellowship 2017

Ronald Coase Institute

Received financial support to attend to the Ronald Coase Workshop on institutional analysis in Xiamen, China.

Graduate Student Fellowship 2016

Property and Environment Research Centre

Received financial support to conduct research on the performance of property rights for common pool resources under natural disasters.

H. William Kuni Bren Fellowship 2016

University of California, Santa Barbara

Received financial support to conduct interdisciplinary research on the future development of aquaculture when contrasted with environmental, economic and human health guidelines.

Becas Chile 2014

Chilean Government

Received full funding for a four-year Ph.D. in Economics program.

Latin American Fisheries Fellowship 2011

University of California, Santa Barbara / Walton Foundation

Received full-funding for a two-year Master in Environmental Science and Management program.

Becas Chile 2011

Chilean Government

Received supplemental funding for a two-year Master in Environmental Science and Management program.

Best Graduate 2010

Pontificia Universidad Católica de Valparaíso

Recognized for the best academic performance of the 2010 Aquaculture Engineering graduation class.

APROPECH Best Thesis Award 2010

Pontificia Universidad Católica de Valparaíso

Recognized for the best thesis project of the 2010 Aquaculture Engineering graduation class.

Best Academic Performance 2009

Pontificia Universidad Católica de Valparaíso

Ranked 1st in academic performance for the overall 2009 Aquaculture Engineering class.

Grants

National Oceanographic and Atmospheric Administration, Florida - USA 2018 A Web-based Survey to Estimate the Economic Value of Improved Hurricane Forecasts
(\$400,000 - Co-PI)

The Nature Conservancy, Mexico - Peru 2017 Technical Training in the Economics of Fisheries Management for Decision Makers
(*\$47,000 - PI*)

The Nature Conservancy, Peru 2017 Technical Training in the Economics of Fisheries Management for Decision Makers
(*\$35,000 - PI*)

The Nature Conservancy, Peru 2016 Improving the Management of Peru's Anchoveta Fishery: Understanding the Socio-Economic Impacts of Management Strategies
(*\$55,000 - Co-PI*)

Undersecretariat for Fisheries and Aquaculture, Chile 2009 Methodology for the Calculation of User Fees in the Chilean Territorial User Fishery Rights System (TURF) for Benthic Fisheries
(*\$50,000 - Co-PI*)

Asia-Pacific Economic Cooperation, Chile 2009 Development of an APEC Strategy on Sustainable Aquaculture
(*\$30,000 - Co-PI*)

Fund for Fisheries Research, Chile 2008 Technical basis for the Fisheries Management Plan in the Southern Chilean Groundfish Fishery
(*\$200,000 - Co-PI*)

SKILLS & INTERESTS

Languages

Spanish (native) and English (fluent).

Skills

Advanced Computer Programming, Systems Thinking, Operations Research.

Research Interests

Environmental and Resource Economics, Dynamic Optimization, Game Theory and Political Economy.

Miscellaneous Interests

Music, Photography & Literature.