

RENATO MOLINA

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Rosenstiel School of Marine and Atmospheric Science

Dept. of Marine Ecosystems and Society, University of Miami ◊ Miami, FL 33149-198

EDUCATION

- University of California, Santa Barbara** 2018
Doctor of Philosophy in Economics
Department of Economics
- University of California, Santa Barbara** 2015
Master of Arts in Economics
Department of Economics
- University of California, Santa Barbara** 2013
Master in Environmental Science & Management
Economics and Politics of the Environment specialization
Bren School of Environmental Science & Management
- Pontificia Universidad Católica de Valparaíso** 2010
Professional Degree of Aquaculture Engineering
School of Marine Science
- Pontificia Universidad Católica de Valparaíso** 2009
Bachelor of Sciences in Fisheries Science
School of Marine Science

PROFESSIONAL EXPERIENCE

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

TEACHING EXPERIENCE

Economics of Fisheries Management <i>Instructor - Graduate - Government Officials</i>	January 2017 - June 2018 <i>UC Santa Barbara, USA</i>
Economics of Environmental Management <i>Teaching Assistant - Graduate</i>	April 2017 - June 2017 <i>UC Santa Barbara, USA</i>
Intermediate Macroeconomic Theory <i>Teaching Assistant - Undergraduate</i>	October 2016 - December 2016 <i>UC Santa Barbara, USA</i>
Operations Research <i>Instructor - Undergraduate</i>	March 2010 - December 2011 <i>PUCV, Chile</i>
Production and Operations Management <i>Instructor - Undergraduate</i>	March 2010 - December 2011 <i>PUCV, Chile</i>
Operations Research <i>Teaching Assistant - Undergraduate</i>	March 2007 - December 2009 <i>PUCV, Chile</i>

RESEARCH & PRESENTATIONS

Working papers

Why Natural Disasters are a Disaster in Common Property Resources

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

Transboundary Marine Protected Areas (with C. Costello)

Peer-reviewed

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.

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

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.

RESEARCH & PRESENTATIONS (CONTINUED)

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 Pacífico Sur Oriental (COPAS), Universidad de Concepción, Concepción, Chile. FAO Actas de Pesca y Acuicultura. No. 29. Roma, FAO, 275-335p.

Presentations

Molina, R. & Costello, C. 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 Interconnected 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.

FELLOWSHIPS AND RECOGNITIONS

- 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.

FELLOWSHIPS AND RECOGNITIONS (*CONTINUED*)

- 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.

INTERNSHIPS AND VISITATIONS

- UNIVALI** June 2012 - August 2012
Visiting Researcher Itajaí, Brazil
- Acuasesorías** January 2009 - February 2009
Student Intern Viña del Mar, Chile
- Marine Harvest Co.** January 2008 - February 2008
Student Intern Puerto Montt, Chile

GRANTS

- The Nature Conservancy, Mexico - Peru** 2017
Technical Training in the Economics of Fisheries Management for Decision Makers
(\$47,000)
- The Nature Conservancy, Peru** 2017
Technical Training in the Economics of Fisheries Management for Decision Makers
(\$35,000)
- The Nature Conservancy, Peru** 2016
Improving the Management of Peru's Anchoveta Fishery: Understanding the Socio-Economic Impacts of Management Strategies
(\$55,000)
- DSTP Mining Consortium, Chile** 2014
Economic Valuation of the Marine Ecosystems in Central Chile
(\$20,000)
- 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)
- Asia-Pacific Economic Cooperation, Chile** 2009
Development of an APEC Strategy on Sustainable Aquaculture
(\$30,000)
- Fund for Fisheries Research, Chile** 2008
Technical basis for the Fisheries Management Plan in the Southern Chilean Groundfish Fishery
(\$200,000)

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.