

# Renato Molina

Assistant Professor in Environmental and Resource Economics  
Rosenstiel School & Department of Economics · University of Miami

✉ [renato.molina@rsmas.miami.edu](mailto:renato.molina@rsmas.miami.edu) ☎ +1 (305) 421 4055 🌐 [renatomolinah.com](http://renatomolinah.com) | Updated: October 3, 2019

## EMPLOYMENT, ACADEMIC POSITIONS AND AFFILIATIONS

<b>Rosenstiel School of Marine and Atmospheric Science, Department of Economics, University of Miami</b> <i>Assistant Professor in Environmental and Resource Economics</i>	August 2018 - Present Miami, FL, USA
<b>Abess Center for Ecosystem Science &amp; Policy, University of Miami</b> <i>Abess Center Faculty Scholar</i>	May 2019 - Present Miami, FL, USA
<b>Facultad de Recursos Naturales, PUCV</b> <i>Visiting Scholar</i>	April 2018 - Present Valparaíso, Chile
<b>Sustainable Fisheries Group, UC Santa Barbara</b> <i>Project Researcher</i>	October 2013 - June 2018 Santa Barbara, CA, USA
<b>Facultad de Recursos Naturales, PUCV</b> <i>Lecturer</i>	March 2010 - August 2016 Valparaíso, Chile
<b>Bren School, UC Santa Barbara</b> <i>Graduate Research Assistant</i>	November 2012 - August 2013 Santa Barbara, CA, USA
<b>School of Marine Science, PUCV</b> <i>Research Assistant</i>	July 2007 - December 2009 Valparaíso, Chile
<b>Private Consultant</b> <i>Freelance Industrial Operations Modeler</i>	July 2007 - December 2009 Valparaíso, Chile

## EDUCATION

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

## TEACHING

<b>Applied Environmental Economics</b> Instructor - <i>Graduate</i>	2019 University of Miami, USA
<b>Economics of Fisheries Management</b> Instructor - <i>Graduate and Government Officials</i>	2017 - 2018 UC Santa Barbara, USA
<b>Economics of Environmental Management</b> Teaching Asisstant - <i>Graduate</i>	2017 UC Santa Barbara, USA
<b>Intermediate Macroeconomic Theory</b> Teaching Asisstant - <i>Undegraduate</i>	2016 UC Santa Barbara, USA
<b>Operations Research</b> Instructor - <i>Undegraduate</i>	2010 - 2011 PUCV, Chile
<b>Production and Operations Management</b> Instructor - <i>Undegraduate</i>	2010 - 2011 PUCV, Chile
<b>Operations Research</b> Teaching Asisstant - <i>Undegraduate</i>	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)

Sharing is not Caring: The case of transboundary fisheries (with O. Liu)

### 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 13(12): e0209431.

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

## **Presentations**

### **2019**

Camp Resources, North Carolina State University; AERE Summer Conference, Tahoe, California; Workshop in Environmental Economics and Data Science, University of Oregon.

### **2018**

[Discussant] Occasional Workshop in Environmental and Resource Economics, University of California, Santa Barbara; University of California, Berkeley; University of Miami; Resources for the Future.

### **2017**

North American Association of Fisheries Economists, La Paz, Mexico; Ministry of Production, Lima, Peru.

### **2015**

World Bank, Latin American Regional Office, Lima, Peru; Pontificia Universidad Católica de Valparaíso, Valparaíso, Chile.

### **2014**

International Conference of the International Institute of Fisheries Economics & Trade, Brisbane, Australia; Pontificia Universidad Católica de Valparaíso, Valparaíso, Chile; The Nature Conservancy, Valdivia, Chile.

## **AWARDS**

### **Provost Research Award**

*University of Miami, Miami*

Received financial support to perform independent research.

2019

### **White Family Fellowship**

*University of California, Santa Barbara*

Recognized for outstanding academic achievement in the Department of Economics.

2017

### **Lindau Nobel Laureate Meetings Fellowship**

*Foundation Lindau Nobel Laureate Meetings*

2017

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

University of Miami, Florida - USA, 2018. U-LINK (Phase II). Next Generation of Coastal Structures: Incorporating Ecology, Engineering, Economics, and Aesthetic for a Changing Ocean. (\$150,000 - Co-PI)

University of Miami, Florida - USA, 2019. Provost Research Award. The Impact of Piracy on Global Shipping.  
(\$17,000 - PI)

University of Miami, Florida - USA, 2018. U-LINK (Phase I). Next Generation of Coastal Structures: Incorporating Ecology, Engineering, Economics, and Aesthetic for a Changing Ocean.  
(\$45,000 - Co-PI)

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.