
DIEGO VALDERRAMA

ASSISTANT PROFESSOR
FOOD AND RESOURCE ECONOMICS DEPARTMENT
INSTITUTE OF FOOD AND AGRICULTURAL SCIENCES
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FIELDS: Environmental and Natural Resource Economics; Fisheries and Aquaculture Economics; Economic Development.

EDUCATION:

- Ph.D. in Environmental and Natural Resource Economics, University of Rhode Island, September 2008.
Dissertation Title: An Examination of Price in the Economic Management of Marine Resources.
Committee Members: James L. Anderson, Cathy A. Roheim, David A. Bengtson.
GPA: 4.0
- M.Sc. in Aquaculture/Fisheries, University of Arkansas at Pine Bluff, May 2000.
Major: Aquaculture Economics.
Thesis Title: Economic Analysis of Shrimp Farming in Honduras, Central America.
GPA: 4.0.
- B.S. in Marine Biology, Universidad de Bogotá Jorge Tadeo Lozano (Bogotá, Colombia), October 1994.
Graduated with top honors.

PROFESSIONAL EXPERIENCE:

- **Assistant Professor**, Food and Resource Economics Department, Institute of Food and Agricultural Sciences, University of Florida, USA (November 2010 – Present).
- **Aquaculture Officer (Economics)**, Aquaculture Service, Fisheries and Aquaculture Resources Use and Conservation Division, Fisheries and Aquaculture Department, Food and Agriculture Organization of the United Nations, Rome, Italy (January – October 2010).
- **Fishery Planning Analyst (Aquaculture Economics)**, Development and Planning Service, Fisheries and Aquaculture Policy and Economics Division, Fisheries and Aquaculture Department, Food and Agriculture Organization of the United Nations, Rome, Italy (October 2008 – December 2009).
- **Research Associate**, Development of Aquaculture and Fisheries, University of Arkansas at Pine Bluff, USA (May 2000 – December 2001).

COURSES TAUGHT AT THE UNIVERSITY OF FLORIDA:

- **AEB4282, International Humanitarian Assistance**, Spring 2011.
- **AEB4283, International Development Policy**, Spring 2011, Fall 2011 and 2012.
- **AEB7571, Econometric Methods I**, Fall 2011 and 2012.

OTHER EDUCATIONAL AND WORK EXPERIENCE:

- **Fishery Performance Indicators, Global Program on Fisheries, The World Bank**, 2012: Conducted a case study on Colombian shrimp fisheries.
- **TRAFFIC/WWF report "The Great Salmon Run: Competition between Wild and Farmed Salmon"** (G. Knapp, C.A. Roheim and J.L. Anderson), August 2003 – July 2006: Assisted in the preparation of selected chapters. Report is available at http://www.traffic.org/species-reports/traffic_species_fish25.pdf
- **Global Shrimp Outlook / Global Outlook for Aquaculture Leadership**, 2002 - present: Conducted economic analyses for the Shrimp Session of the annual global conference hosted by the Global Aquaculture Alliance.
- **J.L. Anderson & Associates** (consulting firm specialized in the analysis of seafood industry issues), 2002-2008: Performed as a research assistant in a number of projects.
- Optional Practical Training at the University of Arkansas at Pine Bluff (UAPB), May 2000- December 2001: Conducted work as a Research Associate for the Department of Aquaculture and Fisheries at UAPB. Participated in the following research projects:
 - **Shrimp Farming & the Environment** (World Bank, Network of Aquaculture Centres in Asia-Pacific, World Wildlife Fund, and Food and Agriculture Organization of the United Nations): Conducted a case study on the interactions of shrimp farming and the environment entitled "Economics of Best Management Practices for Semi-intensive Shrimp Farms in Honduras and Cooperatives in Nicaragua". Report is available at <http://www.enaca.org/modules/wfdownloads/viewcat.php?cid=41>
 - **Methods for Improving Shrimp Farming in Central America** (United States Department of Agriculture, Hurricane Mitch Reconstruction Project): Developed training materials and conducted workshops in aquaculture farm management for shrimp farmers in Honduras and Nicaragua.
 - **Management of Aquacultural Effluents from Ponds** (Southern Regional Aquaculture Center, United States Department of Agriculture Cooperative State Research, Education and Extension Service): Conducted economic analysis of different treatment options for effluents from aquaculture ponds in the southeastern U.S.

AWARDS AND DISTINCTIONS:

- **2008 Greg J. Lessne Award for Excellence in the Study of Natural Resource Markets and Economics**. Granted by the Department of Environmental and Natural Resource Economics, University of Rhode Island.
- **2007 Graduate Student Travel Award, IAAEM**. Granted by the International Association of Aquaculture Economics and Management to attend and present a paper at the World Aquaculture Society (WAS) meeting in San Antonio, Texas. Title of the paper: "Market Interactions between Aquaculture and Common-Property Fisheries with an Application to the Bristol Bay Sockeye Salmon Fishery in Alaska".
- **2004-2005 URI Graduate Fellowship**. Granted by the University of Rhode Island in recognition of achievement and promise as scholar.
- **Best Paper, North American Journal of Aquaculture, 2001**. Granted by the American Fisheries Society. Title of the Paper: "Effect of stocking density on production characteristics, costs, and risk of producing fingerling channel catfish". Coauthored with Carole R. Engle.

- **Honorable Mention in the Best Student Paper Award Competition – IIFET 2000.** Granted by the International Institute of Fisheries Economics and Trade (IIFET) at its Tenth Biennial Conference, July 2000. Title of the paper: “A Risk Programming Model for Shrimp Farming in Honduras”.
- **Best Graduate Student Presentation – Thirteenth Annual Research Forum at the University of Arkansas at Pine Bluff** (March 2000). Title of the presentation: “A Risk Programming Model for Shrimp Farming in Honduras”.
- **Best Student Abstract – Aquaculture America 2000.** Granted by the US Chapter of the World Aquaculture Society in February 2000. Title of the abstract: “Risk Analysis of Shrimp Farming in Honduras”.
- **Walter Landry Memorial Award 1998.** Granted by the U.S. Striped Bass Growers Association in January 1999 due to outstanding achievements in the research of hybrid striped bass.
- **Jorge Tadeo Lozano Award, 1994.** Granted by the Universidad de Bogotá Jorge Tadeo Lozano (Bogotá, Colombia) in October 1994 due to outstanding academic performance as an undergraduate student.

PUBLICATIONS IN PEER-REVIEWED JOURNALS:

- Valderrama, D. and J.L. Anderson. 2010. Market interactions between aquaculture and common-property fisheries: recent evidence from the Bristol Bay sockeye salmon fishery in Alaska. *Journal of Environmental Economics and Management* 59:115-128.
- Valderrama, D. and J.L. Anderson. 2009. Improving utilization of the Atlantic sea scallop resource: an analysis of rotational management of fishing grounds: reply. *Land Economics* 85:384-390.
- Valderrama, D. and J.L. Anderson. 2007. Improving utilization of the Atlantic sea scallop resource: an analysis of rotational management of fishing grounds. *Land Economics* 83:86-103.
- Engle, C.R. and D. Valderrama. 2004. Economic effects of implementing selected components of Best Management Practices (BMPs) for semi-intensive shrimp farms in Honduras. *Aquacultural Economics and Management* 8:157-177.
- Valderrama, D. and C. R. Engle. 2004. Farm-level economic effects of viral diseases on Honduran shrimp farms. *Journal of Applied Aquaculture* 16:1-26.
- Engle, C.R. and D. Valderrama. 2003. Farm-level costs of settling basins for treatment of effluents from levee-style catfish ponds. *Aquacultural Engineering* 28:171-199.
- Engle, C.R. and D. Valderrama. 2002. Production characteristics, costs, and risk of producing channel catfish, *Ictalurus punctatus*, fingerlings on farms with thinning. *Journal of Applied Aquaculture* 12:51-64.
- Valderrama, D. and C. R. Engle. 2002. Economic optimization of shrimp farming in Honduras. *Journal of the World Aquaculture Society* 33:398-409.
- Engle, C. R. and D. Valderrama. 2001. An economic analysis of the performance of three sizes of catfish *Ictalurus punctatus* fingerlings understocked in multiple-batch production. *Journal of the World Aquaculture Society* 32:393-401.
- Valderrama, D. and C. R. Engle. 2001. Risk analysis of shrimp farming in Honduras. *Aquaculture Economics and Management* 5:49-68.
- Engle, C. R. and D. Valderrama. 2001. Effect of stocking density on production characteristics, costs, and risk of producing fingerling channel catfish. *North American Journal of Aquaculture* 63:201-207.
- Valderrama, D., S. E. Lochmann, and M. Jackson. 2000. Predation of cyclopoid copepods on sunshine bass fry. *North American Journal of Aquaculture* 62:144-148.

PUBLICATIONS IN PEER-REVIEWED JOURNALS – CURRENTLY UNDER REVIEW

Valderrama, D. and J.L. Anderson. Improving the economic management of the Bristol Bay (Alaska) sockeye salmon fishery in the age of aquaculture. Submitted to the 2013 Special Issue of the *Canadian Journal of Agricultural Economics*: “Applied Economic Analysis of Marine Resource Management Issues in the 21st Century”.

Valderrama, D. The economics of *Kappaphycus* and *Eucheama* seaweed cultivation in developing countries: a comparative analysis. Submitted to *Aquaculture Economics and Management*.

BOOKS/MONOGRAPHS/CHAPTERS:

Hishamunda, N. and D. Valderrama. In press. *Social and Economic Dimensions of Seaweed Cultivation: Assessment and Case Studies*. FAO Fisheries and Technical Paper. Food and Agriculture Organization of the United Nations, Rome, Italy.

Valderrama, D. and J.L. Anderson. 2008. Interactions between capture fisheries and aquaculture. Pages 189-205 in *Offshore Aquaculture in the United States: Economic Considerations, Implications & Opportunities*. NOAA Aquaculture Program, U.S. Department of Commerce, Silver Spring, Maryland, USA. Available at http://www.nmfs.noaa.gov/aquaculture/docs/economics%20report/econ_report_all.pdf

Engle, C.R. and D. Valderrama. 2006. Economic effects of components of Best Management Practices for small-scale shrimp farms in Honduras and cooperatives in Nicaragua. Pages 79-94 in P. Leung and C. Engle (Editors). *Shrimp Culture: Economics, Market and Trade*. World Aquaculture Society and Blackwell Publishing, Oxford, UK.

Valderrama, D. and C.R. Engle. 2002. Economics of Better Management Practices (BMP) for semi-intensive shrimp farms in Honduras and shrimp cooperatives in Nicaragua. Report prepared under the World Bank, NACA, WWF and FAO Consortium Program on Shrimp Farming and the Environment. Work in Progress for Public Discussion. Published by the Consortium. 53 pages. Available at <http://www.enaca.org/modules/wfdownloads/viewcat.php?cid=41>

Engle, C. R. and D. Valderrama. 2002. The economics of environmental impacts of aquaculture in the United States. Pages 247-270 in J. Tomasso (ed.). *Aquaculture and the Environment in the United States*. U.S. Aquaculture Society, a Chapter of the World Aquaculture Society, Baton Rouge, Louisiana, USA.

Engle, C. R. and D. Valderrama. 2001. Shrimp farm business management and economics. Pages 231-261 in M. C. Haws and C. E. Boyd (eds.). *Methods for Improving Shrimp Farming in Central America*. Hurricane Mitch Reconstruction Project / United States Department of Agriculture. University of Central America Press, Managua, Nicaragua.

Engle, C. R. and D. Valderrama. 2001. Tools for Better Management Decision Making for Shrimp Farmers. Central American University Press, Managua, Nicaragua.

TRADE MAGAZINES/NEWSLETTERS:

Valderrama, D. and J.L. Anderson. 2012. Production: global shrimp review. *The Global Aquaculture Advocate* 15(1):8-9.

Valderrama, D., N. Hishamunda and X. Zhou. 2010. Estimating employment in world aquaculture. *FAO Aquaculture Newsletter* No. 45, p. 24-25.

Valderrama, D. and N. Hishamunda. 2010. Workshops in Latin America: user-friendly aquaculture investment and management tool for small- and medium-scale farmers. *FAO Aquaculture Newsletter* No. 44, p. 23.

Valderrama, D. and C. R. Engle. 2001. Efectos en la rentabilidad y las estrategias de manejo de las fincas en Honduras, por las tasas de sobrevivencia del camarón blanco. *Panorama Acuicola* 6(4):40-41.

CONTRIBUTION TO REGULAR PROGRAM PROJECTS AT FAO:

- A Global Review of Seaweed Aquaculture: Social and Economic Dimensions. 2009-2010.
- Regional and National Workshops on Aquaculture Planning at the Farm Level in Africa and Latin America: Workshops conducted in Zambia (2009), Sierra Leone (2009), Costa Rica (2010) and Paraguay (2010).
- FAO Offshore Mariculture Initiative. 2010.

CONTRIBUTION TO TECHNICAL ASSISTANCE PROJECTS AT FAO:

- SIERRA LEONE: TCP/SIL/3104 – Assistance to Fish Farmers. 2009.
- CAMEROON: TCP/CMR/3103 - Mise en Place d'un Plan de Développement Durable de l'aquaculture au Cameroun (Establishment of a Sustainable Development Plan for Aquaculture in Cameroon). 2009.
- NICARAGUA: FAO Multi-Partnership Program (FMPP) "Application of the Ecosystem Approach to Fisheries". 2009-2010.

PRESENTATIONS AT PROFESSIONAL MEETINGS / CONFERENCES:

- Valderrama, D. 2012. Socio-economic Dimensions of Seaweed Farming: A Global Review. IIFET 2012: Visible Possibilities: The Economics of Sustainable Fisheries, Aquaculture and Seafood Trade . July 16-20, Dar es Salaam, Tanzania.
- Valderrama, D. 2012. The Pitfalls of Aquaculture: Disasters and Why They Occur. Introduction to Aquaculture Workshop. Florida Sea Grant. May 4, Fort Myers, FL.
- Valderrama, D. and J.L. Anderson. 2011. Shrimp Production Review. Global Outlook for Aquaculture Leadership 2011. Global Aquaculture Alliance. November 6-9, Santiago, Chile.
- Anderson, J.L. and D. Valderrama. 2008. Shrimp Production Estimates and Trends. Global Outlook for Aquaculture Leadership 2008. Global Aquaculture Alliance. October 28 – 31, Qingdao, China.
- Valderrama, D. and J.L. Anderson. 2008. Market Interactions between Aquaculture and Common-Property Fisheries: Examining the Empirical Evidence from the Bristol Bay Sockeye Salmon Fishery in Alaska. IIFET 2008: Achieving a Sustainable Future: Managing Aquaculture, Fishing, Trade and Development. Proceedings of the Fourteenth Biennial Conference of the International Institute of Fisheries Economics and Trade, Nha Trang, Vietnam.
- Anderson, J.L. and D. Valderrama. 2007. Shrimp Production Estimates and Trends. Global Outlook for Aquaculture Leadership 2007. Global Aquaculture Alliance. October 30 – November 2, Madrid, Spain.
- Valderrama, D. and J.L. Anderson. 2007. Market Interactions between Aquaculture and Capture Fisheries: an Empirical Application to the Sockeye Salmon Fisheries in Bristol Bay, Alaska. "Farming the Sea" Workshop, August 21-22, Refsness Gods, Moss, Norway. Organized by the University of Stavanger.
- Anderson, J.L. and D. Valderrama. 2007. Control and Competition between Wild and Farmed Fish. "Farming the Sea" Workshop, August 21-22, Refsness Gods, Moss, Norway. Organized by the University of Stavanger.
- Anderson, J.L. and D. Valderrama. 2007. Trends in International Trade of Seafood Products. Invited Presentation to the FAO/UN Symposium "International Seafood Trade: Challenges and Opportunities". February 1-2, University of Akureyri, Akureyri, Iceland.
- Anderson, J.L. and D. Valderrama. 2006. Production Outlook: Economic Analysis. Global Shrimp Outlook: 2006. Trends and Prices. Global Aquaculture Alliance. November 5-8, Miami, Florida, USA.
- Anderson, J.L. and D. Valderrama. 2006. Strategic Outlook: Economic Analysis. Global Shrimp Outlook: 2006. Trends and Prices. Global Aquaculture Alliance. November 5-8, Miami, Florida, USA.
- Valderrama, D. and J.L. Anderson. 2006. Improving Management of Atlantic Sea Scallops through Optimal Rotation of Fishing Grounds. IIFET 2006 Portsmouth: Rebuilding Fisheries in an Uncertain Environment.

Proceedings of the Thirteenth Biennial Conference of the International Institute of Fisheries Economics and Trade, Portsmouth, England.

- Anderson, J.L. and D. Valderrama. 2005. Strategic Outlook: Economic Analysis. Global Shrimp Outlook: 2005. Trends and Prices. Global Aquaculture Alliance. October 24-27, Ho Chi Minh City, Vietnam.
- Anderson, J.L. and D. Valderrama. 2005. Trends in the Seafood Market. 2005 Arctic Science Conference. AAAS Arctic Division. Kodiak, Alaska, USA.
- Valderrama, D., and J.L. Anderson. 2005. Designing New Strategies for the U.S. Atlantic Sea Scallop Fishery: Impact of Rotational Management of Fishing Grounds. Third Biennial Forum of the North American Association of Fisheries Economics, Vancouver, British Columbia, Canada.
- Anderson, J.L. and D. Valderrama. 2004. Strategic Outlook: Economic Analysis. Global Shrimp Outlook: 2004. Trends and Prices. Global Aquaculture Alliance. Bangkok, Thailand.
- Valderrama, D. and J.L. Anderson. 2004. Designing Management Alternatives for the U.S. Atlantic Sea Scallop Fishery: Potential Contribution of Stock Enhancement Programs and Rotation of Fishing Areas. IIFET 2004 Japan: What are Responsible Fisheries? Proceedings of the Twelfth Biennial Conference of the International Institute of Fisheries Economics and Trade, Tokyo, Japan.
- Anderson, J.L. and D. Valderrama. 2003. Strategic Outlook: Economic Analysis. Global Shrimp Outlook: 2003. Trends and Prices. Global Aquaculture Alliance. Cabo San Lucas, Mexico.
- Valderrama, D. and C. R. Engle. 2003. Economics of Best Management Practices (BMPs) in Honduras. First Latin American and Caribbean Congress on Environmental and Resource Economics. Cartagena de Indias, Colombia.
- Anderson, J.L. and D. Valderrama. 2002. Strategic Outlook: Economic Analysis. Global Shrimp Outlook: 2002. Trends and Prices. Global Aquaculture Alliance. Bali, Indonesia.
- Valderrama, D. and C.R. Engle. 2002. Economic Optimization of Shrimp Farming in Honduras. Aquaculture America 2002, World Aquaculture Society, San Diego, California, US.
- Valderrama, D. and C. R. Engle. 2001. Economic Factors Related to the use of Settling Basins to Treat Effluents from Catfish Ponds. First North American Fisheries Economics Forum, New Orleans, Louisiana, USA.
- Valderrama, D., and C. R. Engle. 2001. Preliminary Analysis of Costs Associated with Settling Basins and Production/Storage Ponds to Reduce Effluents Discharged from Ponds. Fourteenth Annual Research Forum, University of Arkansas at Pine Bluff, USA.
- Valderrama, D., and C.R. Engle. 2001. Estimating Settling Basin Size for Treating Effluents from Aquaculture. Annual Meeting of the Arkansas Chapter of the American Fisheries Society, Heber Springs, Arkansas, USA.
- Valderrama, D., and C.R. Engle. 2001. The Effect of Survival Rates of White Shrimp *Litopenaeus vannamei* on Net Farm Income and Optimal Management Strategies of Honduran Shrimp Farms. Annual Meeting of the World Aquaculture Society, Orlando, Florida, USA.
- Valderrama, D. and C. R. Engle. 2001. A Risk Programming Model for Shrimp Farming in Honduras. Microbehavior and Macroresults: Proceedings of the Tenth Biennial Conference of the International Institute of Fisheries Economics and Trade, Corvallis, Oregon, USA.
- Valderrama, D., and C.R. Engle. 2000. A Risk Programming Model for Shrimp Farming in Honduras. Thirteenth Annual Research Forum, University of Arkansas at Pine Bluff, USA.
- Valderrama, D., and C.R. Engle. 2000. Risk Analysis of Shrimp Farming in Honduras. Aquaculture America 2000, New Orleans, Louisiana, USA.
- Valderrama, D., S.E. Lochmann, and M. Jackson. 1999. Predation of Cyclopoid Copepods on Sunshine Bass Fry. Annual Meeting of the Striped Bass Growers Association, Aquaculture America 1999, Tampa, Florida, USA.

- Valderrama, D., and C.R. Engle. 1998. Economic Analysis of Shrimp Farming: An Introduction. Eleventh Annual Research Forum, University of Arkansas at Pine Bluff, USA.
- Valderrama, D., O. Caleño, C. Pomare, and L. F. Torres. 1994. Contribución al Conocimiento del Plancton Superficial en los Alrededores del Parque Nacional Natural Corales del Rosario (Caribe Colombiano) [Contribution to the Knowledge of Plankton Communities in the Coral Reefs of the Rosario Islands (Colombian Caribbean)]. Proceedings of the Ninth National Congress on Ocean Sciences and Technologies. Organized by the Colombian Oceanographic Commission (COC) and COLCIENCIAS. Universidad EAFIT, Medellín, Colombia.

COMPUTER SKILLS:

MS Office (Word, Excel, PowerPoint), GAMS, MATLAB, econometric software (Gauss, SAS, R, EViews).

PROFESSIONAL MEMBERSHIPS:

- International Association of Aquaculture Economics and Management (IAAEM): member of the Editorial Board of *Aquaculture Economics & Management*, the association's journal, since 2012.
- International Institute of Fisheries and Trade (IIFET).
- North American Association of Fisheries Economists (NAAFE).
- World Aquaculture Society (WAS).

PROFESSIONAL SERVICES / ACTIVITIES:

Served as a reviewer for the following journals:

American Journal of Agricultural Economics
Interciencia
Journal of Aquatic Animal Health
Marine Resource Economics
Review of Agricultural Economics

Aquaculture Economics & Management
Journal of Applied Aquaculture
Journal of the World Aquaculture Society
North American Journal of Fisheries Management
World Journal of Modelling and Simulation

NATIONALITY: Colombian (speak Spanish as native language). Adjustment to Permanent Resident status in the U.S. is pending.