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ASSISTANT PROFESSOR (TERM), MARINE CONSERVATION AND POLICY
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FIELDS: Environmental and Natural Resource Economics; Marine Resource Economics (Aquaculture and Fisheries); Marine Conservation.

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 (Term)**, Department of Environmental Science and Policy, George Mason University, Fairfax, Virginia, USA August 2018 – present).
- **Associate Professor**, School of Management, University of los Andes, Bogotá, Colombia (July 2016 – July 2018).
- **Assistant Professor**, Food and Resource Economics Department, Institute of Food and Agricultural Sciences, University of Florida, USA (2011 – July 2016).
- **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 – December 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**, Department of Aquaculture and Fisheries, University of Arkansas at Pine Bluff, USA (May 2000 – December 2001).

OTHER PROFESSIONAL EXPERIENCE:

- **Research Assistant**, 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, including the preparation of the TRAFFIC/WWF book "The Great Salmon Run: Competition between Wild and Farmed Salmon" (G. Knapp, C.A. Roheim and J.L. Anderson), available at http://www.traffic.org/species-reports/traffic_species_fish25.pdf

TEACHING EXPERIENCE:

- **EVPP 338, The Economics of Environmental Policy**, George Mason University, Spring 2019.
- **EVPP 651, Multivariate Data Analysis for Ecology and Environmental Science**, George Mason University, Spring 2019.
- **EVPP 692/991, Seminar on Ecosystem Services**, George Mason University, Spring 2019.
- **EVPP 421 / EVPP 521 / BIOL450, Marine Conservation**, George Mason University, Fall 2018.
- **GEOL 309 / EVPP 309, Introduction to Oceanography**, George Mason University, Fall 2018.
- **EVPP 111 (Lab), The Ecosphere: An Introduction to Environmental Science II**, George Mason University, Fall 2018.
- **ADMI 1190, Fundamentals of Ecosystem Services**, University of los Andes, Fall 2016-2017, Spring 2017-2018.
- **AEB4 282, International Humanitarian Assistance**, University of Florida, Spring 2011, 2013 through 2016.
- **AEB 4283, International Development Policy**, University of Florida, Spring 2011, Fall 2011 through 2015.
- **AEB 7571, Econometric Methods I**, University of Florida, Fall 2011 through 2014.
- **REN 410, Fish and Wildlife Economics**. University of Rhode Island, Fall 2006.

PUBLICATIONS IN PEER-REVIEWED JOURNALS:

- Valderrama, D. and K.H. Fields. 2017. Flawed evidence on the Metabolic Theory of Ecology may undermine goals of ecosystem-based fishery management: The case of the invasive Indo-Pacific lionfish. *ICES Journal of Marine Science* 74:1256–1267.
- Valderrama, D., L.A. Velasco and N. Quiroz. 2016. Economic assessment of hatchery production of *Argopecten nucleus* spat to support the development of scallop aquaculture in the wider Caribbean. *Aquaculture Reports* 4:169-177. DOI: 10.1016/j.aqrep.2016.10.001
- Valderrama, D. and K.H. Fields. 2015. Linking removal targets to the ecological effects of invaders: a predictive model and field test - Letter to the Editor. *Ecological Applications* 25:2047-2048.
- Valderrama, D., J. Cai, N. Hishamunda, N. Ridler, I.C. Neish, A.Q. Hurtado, F.E. Msuya, M. Krishnan, R. Narayanakumar, M. Kronen, D. Robledo, E. Gasca-Leyva and J. Fraga. 2015. The economics of *Kappaphycus* seaweed cultivation in developing countries: a comparative analysis of farming systems. *Aquaculture Economics and Management* 19:251-277.
- Anderson, J.L., C.M. Anderson, J. Chu, J. Meredith, F. Asche, G. Sylvia, M.D. Smith, D. Anggraeni, R. Arthur, A. Guttormsen, J.K. McCluney, T. Ward, W. Akpalu, H. Eggert, J. Flores, M.A. Freeman, D.S. Holland, G. Knapp, M. Kobayashi, S. Larkin, K. MacLauchlin, K. Schnier, M. Soboil, S. Tveteras, H. Uchida, and D. Valderrama. 2015. The Fishery Performance Indicators: A management tool for triple bottom line outcomes. *PLOS ONE* 10(5): e0122809. doi:10.1371/journal.pone.0122809.

- Valderrama, D., S. Iyemperumal and M. Krishnan. 2014. Building consensus for sustainable development in aquaculture: a Delphi study of Better Management Practices for shrimp farming in India. *Aquaculture Economics and Management* 18:369-394.
- Asche, F., R.E. Dahl, D. Valderrama and D. Zhang. 2014. Price transmission in new supply chains – the case of salmon in France. *Aquaculture Economics and Management* 18:205-219.
- Valderrama, D. and J.L. Anderson. 2013. Improving the economic management of the Bristol Bay (Alaska) sockeye salmon fishery in the age of aquaculture. *Canadian Journal of Agricultural Economics* 61:145-170.
- 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. *Aquaculture 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(2):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.

WORKING PAPERS:

- Valderrama, D., J.L. Anderson, J.L. and D. Jory. The impact of shrimp diseases on global production trends and trade patterns: insights from a multi-year, global survey of the shrimp farming industry. To be submitted to *Reviews in Aquaculture*.
- Valderrama, D., L.A. Velasco and J.S. Meléndez. Economic performance of the suspended culture of nucleus scallop *Argopecten nucleus* in the Caribbean Sea. To be submitted to *Aquaculture*.

Marco, J. and D. Valderrama. Measuring performance in a fishery attempting to recover from collapse: The case of the Colombian queen conch fishery. To be submitted to *Marine Policy*.

Marco, J. and D. Valderrama. Optimizing management strategies for the queen conch *Strombus gigas* resource in the Colombian Caribbean. To be submitted to *Marine Resource Economics*.

BOOKS/MONOGRAPHS/CHAPTERS:

Valderrama, D. 2017. *Shrimp Farming in India, Ecuador and Mexico: Production and Market Trends, 2010-2019*. A Report Prepared for BASF New Business GmbH, Ludwigshafen am Rhein, Germany. 45 pp.

Bjerregaard, R., D. Valderrama, R. Radulovich, J. Diana, M. Capron, C.A. Mckinnie, M. Cedric, K. Hopkins, C. Yarish, C. Goudey and J. Forster. 2016. *Seaweed Aquaculture for Food Security, Income Generation and Environmental Health in Tropical Developing Countries*. The World Bank, Washington DC, USA. 16 pp. Available at <http://documents.worldbank.org/curated/en/947831469090666344/Seaweed-aquaculture-for-food-security-income-generation-and-environmental-health-in-Tropical-Developing-Countries>

Radulovich, R., A. Neori, D. Valderrama, C.R.K. Reddy, H. Cronin and J. Forster. 2015. Farming of seaweeds. Pages 27-59 in B.K. Tiwari and D.J. Troy (Editors). *Seaweed Sustainability: Food and Non-Food Applications*. Elsevier, Amsterdam, The Netherlands. doi:10.1016/B978-0-12-418697-2.00003-9

Valderrama, D., J. Cai, N. Hishamunda, and N. Ridler, Editors. 2013. *Social and Economic Dimensions of Carrageenan Seaweed Farming*. FAO Fisheries and Aquaculture Technical Paper 580. Food and Agriculture Organization of the United Nations, Rome, Italy. Available at <http://www.fao.org/docrep/019/i3344e/i3344e.pdf>

Valderrama, D. and J.L. Anderson. 2008. Interactions between capture fisheries and aquaculture. Pages 189-205 in M. Rubino (Editor). *Offshore Aquaculture in the United States: Economic Considerations, Implications & Opportunities*. NOAA Technical Memorandum NMFS F/SPO-103. U.S. Department of Commerce, Silver Spring, Maryland, USA. Available at <https://spo.nmfs.noaa.gov/sites/default/files/tm103.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.

Rivera-Monroy, V.H., R.R. Twilley, E. Castañeda, Ariel R. Alcántara-Eguren, D. Aragonés, D. Martínez and D. Valderrama. 2002. Hurricane Mitch: Integrative Management and Rehabilitation of Mangrove Resources to Develop Sustainable Shrimp Mariculture in the Gulf of Fonseca, Honduras. USGS Open File Report 03-177, 120 p. Available at <http://www.nwrc.usgs.gov/topics/hurricane/mitch/twilley.pdf>

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:

- Anderson, J.L., D. Valderrama and D. Jory. 2018. Global Shrimp Production Review and Forecast: Steady Growth Ahead (GOAL 2018). *The Global Aquaculture Advocate*. Available at <https://www.aquaculturealliance.org/advocate/global-shrimp-production-review-and-forecast-steady-growth-ahead/>
- Anderson, J.L., D. Valderrama and D. Jory. 2017. GOAL 2017: Global Shrimp Production Review and Forecast. *The Global Aquaculture Advocate*. Available at https://www.aquaculturealliance.org/advocate/goal-2017-shrimp-production-survey/?utm_source=Informz/
- Anderson, J.L., D. Valderrama and D. Jory. 2016. Global Shrimp Production Survey: GOAL 2016. *The Global Aquaculture Advocate*. Available at <http://advocate.gaalliance.org/global-shrimp-survey-goal-2016/>
- Anderson, J.L., D. Valderrama and D. Jory. 2016. Global Shrimp Production Survey: Recovery Coming. *The Global Aquaculture Advocate*. Available at <http://advocate.gaalliance.org/goal-shrimp-production-survey-recovery-coming/>
- Anderson, J.L., D. Valderrama and D. Jory. 2014. Global shrimp production review: Industry projects steady recovery following disease impacts. *The Global Aquaculture Advocate* 17(6):10-11.
- Anderson, J.L. and D. Valderrama. 2013. Production: global shrimp review. Disease drops production, but recovery anticipated. *The Global Aquaculture Advocate* 16(6):12-13.
- Anderson, J.L. and D. Valderrama. 2013. Production: global shrimp review. *The Global Aquaculture Advocate* 16(1):12-13.
- 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.

AWARDED GRANTS:

- Assessing the Catch Efficiency of Innovative Trapping Devices to Improve the Response to the Lionfish (*Pterois volitans* and *P. miles*) Invasion in Threatened Areas of the Caribbean Sea. 2018. Funding Agency: The Eppley Foundation for Research. Amount: \$32,352..
- The Economic Impact of Emerging Diseases in Shrimp Aquaculture: Insights from a Multi-Year, Global Survey of the Industry. 2017. Funding Agency: Research Office – University of los Andes. Amount: \$3,500.
- Assessing the Potential for Integrated Multi-Trophic Aquaculture Production of Sturgeon, Shellfish and Aquatic Plants in Small-scale, Recirculating Systems. 2015. Multi-state Research Project W-3004. Funding Agency: Institute of Food and Agricultural Sciences – University of Florida. Amount: \$9,000.
- Multistate Research Fund Project W3004 - Marketing, Trade, and Management of Aquaculture and Fishery Resources. 2014. Funding Agency: National Institute of Food and Agriculture, United States Department of Agriculture.
- Managing the Ecological and Economic Impacts of Indo-Pacific Lionfish in the Florida Keys through Commercial Harvesting of Invasive Stocks. 2014. Multi-state Research Project W-2004. Funding Agency: Institute of Food and Agricultural Sciences – University of Florida. Amount: \$10,000.

- Economic Feasibility of Scallop Aquaculture Production in the Caribbean Basin. 2013. Multistate Research Project W-2004. Funding Agency: Institute of Food and Agricultural Sciences – University of Florida. Amount: \$5,000.
- The Aquaculture Revolution: Implications for Fisheries and Growth in the Seafood Sector. 2005. Hatch Regional Project W-1004C. Funding Agency: Rhode Island Agriculture Experiment Station. Amount: \$59,850.

AWARDS AND DISTINCTIONS:

- **Honorable Mention, Best Paper Competition, *Aquaculture Economics & Management*, 2014.** Title of Paper: “Price Transmission in New Supply Chains - The Case of Salmon in France”. Coauthored with Frank Asche, Dengjun Zhang and Roy E. Dahl.
- **2014 Anderson Scholar Faculty Honoree.** Granted by the College of Liberal Arts and Sciences at the University of Florida for having been identified by an Anderson Scholar Award recipient as a particularly inspiring or influential faculty member (<http://www.clas.ufl.edu/andersonscholars/professors2014.html>)
- **Certificate of Appreciation for Being an Outstanding Faculty Member at the University of Florida and Aspiring to Excellence in Education.** Awarded by Apple for You, an educator appreciation program sponsored by the Campus Diplomats, an UF student organization. Spring 2014 & 2016.
- **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 present the paper “Market Interactions between Aquaculture and Common-Property Fisheries with an Application to the Bristol Bay Sockeye Salmon Fishery in Alaska” at the World Aquaculture Society (WAS) meeting in San Antonio, Texas.
- **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.

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 and J. Marco. 2018. Measuring Environmental, Economic, and Social Sustainability of Caribbean Fisheries through the Fishery Performance Indicators, an Innovative Rapid Assessment Tool. 71st Conference of the Gulf and Caribbean Fisheries Institute. Corporación para el Desarrollo Sostenible del Archipiélago de San Andrés, Providencia y Santa Catalina, CORALINA, November 5-9, 2018, San Andrés, Colombia.
- Anderson, J.L., D. Valderrama and D. Jory. 2018. Shrimp Production Review. Global Outlook for Aquaculture Leadership 2018. Global Aquaculture Alliance. September 25-27. Guayaquil, Ecuador.
- Valderrama, D., L.A. Velasco and J.S. Meléndez. 2018. Mariculture of the Nucleus Scallop *Argopecten nucleus* as an Economic Alternative to Artisanal Fisheries in the Colombian Caribbean. Coloquio CERALE 2018. May 30 – June 1. Cartagena, Colombia.
- Anderson, J.L., D. Valderrama and D. Jory. 2017. Shrimp Production Review. Global Outlook for Aquaculture Leadership 2017. Global Aquaculture Alliance. October 3-6. Dublin, Ireland.
- Valderrama, D and K.H. Fields. 2017. Flawed Evidence on the Metabolic Theory of Ecology is Undermining Management of the Lionfish Invasion. International Congress for Conservation Biology, July 23-27. Society for Conservation Biology, Cartagena, Colombia.
- Valderrama, D. 2017. The Fishery Performance Indicators: A New Instrument for Assessing Sustainability of World Fisheries. 23rd International Sustainable Development Research Society Conference, June 14-16. Ninth Biennial Forum of the North American Association of Fisheries Economists, March 22-24. International Sustainable Development Research Society and University of los Andes, Bogotá, Colombia.
- Valderrama, D., J.L. Anderson, E.D. Ortiz and D. Jory. 2017. The Economic Impact of Emerging Diseases in Shrimp Aquaculture: Insights from a Multi-year, Global survey of the Industry. Ninth Biennial Forum of the North American Association of Fisheries Economists, March 22-24. Universidad Autónoma de Baja California Sur, La Paz, Mexico.
- Valderrama, D. and J.L. Anderson. 2016. Early Mortality Syndrome and the Shrimp Aquaculture Industry: Impacts on Global Production and Trade. "Seafood: A Global Commodity" Workshop, November 28-29, Cocoa Beach, FL, USA. Organized by the University of Florida and the University of Stavanger, Norway.
- Valderrama, D and K. Fields. 2016. On the Risks of Adapting Broad Ecological Theories for Specific Management Purposes: The Case of the Invasive Lionfish in the Western Atlantic. Poster presented at the 69th Conference of the Gulf and Caribbean Fisheries Institute. Department of the Environment, Cayman Islands Government, November 7-11, 2016, Seven Mile Beach, Grand Cayman.
- Anderson, J.L., D. Valderrama and D. Jory. 2016. Global Shrimp Production Data & Analysis. Global Outlook for Aquaculture Leadership 2016. Global Aquaculture Alliance. September 19-22. Guangzhou, China.

- Valderrama, D and K.H. Fields. 2016. Estimating Target Densities and Costs Associated with Manual Removal of Invasive Lionfish Stocks in the Western Atlantic. CNREP 2016 – Challenges of Natural Resource Economics and Policy. 5th National Forum on Socioeconomic Research in Coastal Systems, March 20-22. New Orleans, Louisiana.
- Fields, K.H. and D. Valderrama. 2015. How Many Lionfish Are Too Many Lionfish? Estimating Target Densities and Costs Associated with Manual Removal of Invasive Lionfish Stocks in a Marine Reserve in Belize. 68th Annual Conference of the Gulf and Caribbean Fisheries Institute, November 9 – 13. Panama City, Panama.
- Anderson, J.L., D. Valderrama and D. Jory. 2015. Global Shrimp Production Data & Analysis. Global Outlook for Aquaculture Leadership 2015. Global Aquaculture Alliance. October 26-29. Vancouver, BC, Canada.
- Valderrama, D. 2015. Fortalecimiento de la Capacidad Analítica para Apoyar la Gestión: Indicadores del Desempeño de Pesquerías. Taller Internacional “Experiencia Global en el Fomento y Gobernabilidad de Sistemas de Innovación en Pesca y Acuicultura”. Programa Nacional de Innovación en Pesca y Acuicultura, September 28-29. Peruvian Ministry of Production, The World Bank and Korean Green Growth Partnership. Lima, Peru.
- Valderrama, D. and K.H. Fields. 2015. Testing the Cost Effectiveness of Manual Removal Strategies for the Containment of Invasive Lionfish Stocks in a Caribbean Reef. Eighth Biennial Forum of the North American Association of Fisheries Economists, May 20-22. University of Alaska Southeast, Ketchikan, Alaska.
- Valderrama, D., L.A. Velasco, N. Quiroz and C.M. Adams. 2015. Economic Assessment of *Argopecten nucleus* Spat Hatchery Production to Support the Development of Scallop Aquaculture in the Caribbean Basin. 20th International Pectinid Workshop, April 22-28. Galway, Ireland.
- Anderson, J.L., D. Valderrama and D. Jory. 2014. Global Shrimp Production Data and Analysis. Global Outlook for Aquaculture Leadership 2014. Global Aquaculture Alliance. October 7-10. Ho Chi Minh City, Vietnam.
- Spagna, R.J. and D. Valderrama. 2014. Shellfish Aquaculture in the Caribbean Sea: Investigating the Feasibility of a Regional Model for Scallop Production. 106th Annual Meeting of the National Shellfisheries Association, March 29 – April 2. Jacksonville, FL, USA.
- Valderrama, D. and L.A. Velasco. 2014. An Economic Model for the Farming of Native Scallop Species in the Caribbean Basin. Aquaculture America 2014, February 9-12. Seattle, Washington, USA.
- Anderson, J.L. and D. Valderrama. 2013. Shrimp Production Review. Global Outlook for Aquaculture Leadership 2013. Global Aquaculture Alliance. October 7-10. Paris, France.
- Valderrama, D. 2013. Impacts of Aquaculture on Rents and Permit Prices in Limited-Entry Fisheries: Evidence from Alaskan Salmon Fisheries. “Seafood Markets and Aquaculture Production” Workshop, Norwegian University of Life Sciences, Ås, Norway.
- Valderrama, D. and L.A. Velasco. 2013. An Economic Model of Scallop Aquaculture Production in the Colombian Caribbean. Seventh Biennial Forum of the North American Association of Fisheries Economists, St. Petersburg, Florida, USA.
- Valderrama, D. 2013. Social and Economic Dimensions of Seaweed Farming: A Global Review. Aquaculture 2013, World Aquaculture Society, Nashville, Tennessee, USA.
- Robledo, D., E. Gasca-Leyva, J. Fraga and D. Valderrama. 2012. Examining the Potential of Seaweed Aquaculture in Mexico. Poster presented at the 65th Conference of the Gulf and Caribbean Fisheries Institute. Universidad del Magdalena, November 5-9, 2012, Santa Marta, Colombia.
- Anderson, J.L., D. Valderrama, M. Kobayashi and S. Msangi. 2012. FISH 2030 and Shrimp Production Review. Global Outlook for Aquaculture Leadership 2012. Global Aquaculture Alliance. October 30 - November 2, Bangkok, Thailand.
- 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.
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- 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.
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- 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 Economists, 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.
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- 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.
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- 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:

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

PROFESSIONAL MEMBERSHIPS:

- International Association of Aquaculture Economics and Management (IAAEM)
- International Institute of Fisheries and Trade (IIFET).
- North American Association of Fisheries Economists (NAAFE).
- World Aquaculture Society (WAS).

PROFESSIONAL SERVICES / ACTIVITIES:

Member of the Editorial Board of *Aquaculture Economics & Management* since 2012.

Chair of USDA/NIFA Multistate Research Projects W-2004 and W-3004 (“Marketing, Trade, and Management of Aquaculture and Fishery Resources”), 2013-2016.

Research Fellow at the Research Group on Environmental, Natural Resource and Applied Economics Studies (REES – Colombia) since 2016.

Senior Research Fellow at the Environment for Development (EfD) Initiative since 2017.

Scientific Delegate on behalf of the University of los Andes to the Corporation Center of Excellence in Marine Sciences (CEMarin) since 2018.

Served as a reviewer for the following journals:

American Journal of Agricultural Economics

Aquaculture Economics & Management

Environment and Development Economics

Journal of Applied Aquaculture

Journal of Applied Phycology

Journal of the World Aquaculture Society

North American Journal of Fisheries Management

Society & Natural Resources

Aquaculture

Current Science (India)

Interciencia (Venezuela)

Journal of the Association of Environmental and Resource Economists

Journal of Aquatic Animal Health

Marine Resource Economics

Review of Agricultural Economics

World Journal of Modelling and Simulation