

JORGE F. BAUZÁ-ORTEGA

CONTACT INFORMATION

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PROFESSIONAL HISTORY

Scientist/Advisor

San Juan Bay Estuary Program
National Estuary Program/U.S. Environmental Protection Agency Present

Ad Joint Professor

Doctoral Program in Environmental Health
Department of Environmental Health
Medical Sciences Campus, University of Puerto Rico. Present

Conference Professor

Graduate School of Environment Affairs
Universidad Metropolitana (UMET) Present

Assistant Sciences Editor

Santillana Group Textbooks Publisher. Present

Senior Scientist & Technical Group Leader, CSA Group, Inc., San Juan, PR 2003-2005

Consultant, Sea Grant College Program, Mayagüez Campus, PR. March to June 2003

Research Assistant, University of Puerto Rico, Mayagüez Campus, PR. February to October, 2002

TEACHING EXPERIENCE

Graduate Courses

- ❖ Applied Oceanography
- ❖ Water Pollution
- ❖ The Aquatic Environment
- ❖ Environmental Chemistry
- ❖ Fate Modeling of Toxic Substances
- ❖ Ecology and Environmental Resources Management

❖ Geography

❖ Chemistry

Undergraduate Courses:

- ❖ Environmental Problems
- ❖ General Ecology

TECHNICAL EXPERTISE

Over ten (10) years of experiences in aquatic sciences, including:

- ❖ Water quality monitoring.
- ❖ Benthic mapping and survey.
- ❖ Aquatic sediments sampling and handling.
- ❖ Biotic sampling and ecological measurements.
- ❖ Oceanographic sampling logistic and data processing.
- ❖ Aquatic ecosystems restoration.

PUBLICATIONS AND PRESENTATIONS

Peer Review Publications

- ❖ **Bauzá, J.F. 2010. Segundo Informe sobre la Condición del Estuario de la Bahía de San Juan: “State of the Estuary”.** San Juan Bay Estuary Program.
- ❖ **Bauzá, J.F. 2008. Quality Assurance Project Plan (QAPP) for the San Juan Bay Estuary Water Quality Monitoring Program.** San Juan Bay Estuary Program. pp. 375.
- ❖ **Bauzá, J.F. 2007. Greenhouse Gas Emissions from Mangroves Forest Sediments in Puerto Rico.** In Greenhouse Gas and Carbon Balances in Mangrove Coastal Ecosystems. Yukata Tateda et al.(eds.), Gendai Tosho, Kanagawa, Japan. pp 165 – 177.
- ❖ **Bauzá, J.F. 2007. Oceanic Nitrous Oxide Dynamic and Sea-Air Exchange in the Eastern Caribbean Basin: Results from the ORIPLEX VI Oceanographic Expedition.** Accepted in The Journal of Oceanography.
- ❖ **Bauzá, J.F., J.M. Morell, and J.E. Corredor. 2002. Biogeochemistry of Nitrous Oxide Production in the Red Mangrove (*Rhizophora mangle*) Forest Sediments.** Estuarine, Coastal and Shelf Science 55: 697-704.
- ❖ **Morell, J.M., J. Capella, A. Mercado, J.F. Bauzá, and J.E. Corredor. 2001. Nitrous oxide Fluxes in Caribbean and Tropical Atlantic Waters: Evidence for Near Surfaces Production.** Marine Chemistry 74: 131-143.
- ❖ **Corredor, J.E., J.M. Morell, and J.F. Bauzá. 1999. Atmospheric Nitrous Oxide Fluxes from Mangrove Sediments.** Marine Pollution Bulletin 38: 473-478.

Non-peer Review Publications

- ❖ **Bauzá, J.F. Octubre-diciembre, 2011. La Laguna del Condado: La restauración de una reserva acuática en la ciudad.** Suplemento especial: La Reservas Marinas en Puerto Rico. Paginas 41 – 44. Revista Atabey.
- ❖ **Bauzá, J.F. 2008. Environmental Indicators of the Estuary: Dissolved Oxygen.** ESTUARIO: San Juan Bay Estuary Partnership Bilingual Newsletter. Third Edition.

- ❖ Bauzá, J.F. 2008. *Manual de Procedimientos de Campo*. Programa de Monitoreo de Calidad de Agua por Voluntarios. Consorcio del Estuario de la Bahía de San Juan, PR.
- ❖ Bauzá, J.F. 2008. *San Juan Bay Estuary Water Quality Indicators Score Card*. Consorcio del Estuario de la Bahía de San Juan, PR.
- ❖ Bauzá, J.F. 2007. *La Ley Federal de Aguas Limpias: Una Herramienta Para Conservar Nuestros Cuerpos de Agua*. AMBIENTE. Primera Edición. Junio 2007.
- ❖ Bauzá, J.F. 2007. *Benthic Assessment: Exploration of the Marine Floor*. ESTUARIO: San Juan Bay Estuary Partnership Bilingual Newsletter. Second Edition.
- ❖ Bauzá, J.F. 2006. *ABC del Clean Water Act*. ESTUARIO: Boletín Informativo Cuatrimestral del Consorcio del Estuario de La Bahía de San Juan. Primera Edición, 2006.

Others

Editor in Chief for the scientific journal *Tropical Estuaries*, a multidisciplinary journal of tropical and subtropical estuarine sciences published by the San Juan Bay Estuary Program.

Presentations

- ❖ *Water quality of the San Juan Bay Estuary*. Puerto Rico Water and Environment Association (PRW&EA) Annual Conference & Technical Exhibition. San Juan, Puerto Rico. May, 2011.
- ❖ *Monitoreando y mejorando el Estuario de la Bahía de San Juan y sus espacios: Lecciones aprendidas de un estuario urbano*. Segundo Ciclo de Conferencias sobre Planificación y Manejo de los Espacios Marinos en Puerto Rico. San Juan, Puerto Rico. Agosto, 2011.
- ❖ *Aquatic Pollution in Puerto Rico*. First Sciences Teachers Workshop on Environmental Conservation. Sponsored by AMGEN Pharmaceutical and Juncos Municipality, Juncos, Puerto Rico. September 17 – 19, 2008.
- ❖ *San Juan Bay Estuary Birds Population*. Society for the Conservation and Study of Caribbean Birds 16th annual meeting, San Juan, Puerto Rico. July 19-23, 2007.
- ❖ *Nitrous Oxide and Methane Fluxes from Mangrove Forest Sediments Along the South West Coast of Puerto Rico*. Invite Speaker. International Workshop on Prediction of Greenhouse Gas Effect on Global Environment: Asian Coastal Ecosystem Case Study, North Vietnam-GREENMAN WS 2006. Hanoi University of Education, Vietnam. June 18 – 21, 2006.
- ❖ *The San Juan Bay Estuary Partnership and Its Action Plan for Wetland Conservation and Restoration*. Invited Speaker. First Symposium of Wetlands. University of Puerto Rico, Rio Piedras Campus. February 15, 2006.
- ❖ *The San Juan Bay Estuary Partnership and Its Action Plan for Coral Reefs Conservation and Restoration*. Seminario de Capacitación al Personal Técnico Sobre Aspectos de Manejo y Conservación de los Arrecifes de Coral. Programa de Manejo de Arrecifes de Coral, Departamento de Recursos Naturales y Ambientales. San Juan, 21 al 25 de agosto, 2006.
- ❖ *Cuantificación de Impactos de Cicatrices de Hélices sobre Praderas de Yervas Marinas en Reservas Naturales del Suroeste de Puerto Rico*. XXII Simposio de la Flora y Fauna de Puerto

Rico y el Caribe, Departamento de Biología, Universidad de Puerto Rico, Humacao, PR. Mayo 2003.

- ❖ *Nitrous Oxide Fluxes and Production in the Eastern Caribbean Basin: Results from the TCESS ORIPLEX-VI Expedition.* Joint Symposium for Climate Studies. University of Puerto Rico, Mayagüez Campus. January 8 -11, 2003.
- ❖ *Nitrous Oxide Fluxes and Production in the Eastern Caribbean Basin.* American Geophysical Union and The American Society of Limnology and Oceanography Ocean Sciences Joint Meeting. Honolulu, Hawaii. February 11- 15, 2002.
- ❖ *Nitrous Oxide Fluxes in Tropical Marine Ecosystem.* Sea-Air Gas Exchange Workshop. Sponsored by the NASA-Tropical Atmospheric Sciences Center. University of Puerto Rico, Mayagüez Campus. August 5 -9, 2001.

OUTREACHS

- ❖ **Member of the Board of Directors**, Scuba Dog Society, 2011.
- ❖ **Writer** for the Science and Environment section of the newspaper *El Nuevo Día*, 2007-present.
- ❖ **In-house scientist** for the monthly radio program **Tu Estuario en Vivo** broadcasted every Monday at 6:00 PM on radio station 11Q at the 1140 AM band. 2007.

Education

- ❖ Bachelor of Sciences in Biology (Dean List), University of Puerto Rico, Rio Piedras Campus, 1991.

POSTGRADUATE STUDIES

- ❖ Ph.D. in Marine Sciences, University of Puerto Rico, Mayagüez Campus, 2003.

ACADEMIC HONORS

- ❖ Alliance for Graduate Education and the Professorate-National Science Foundation Scholarship. 2002.
- ❖ Golden Key National Honor Society, Mayagüez Campus Chapter. 1999.
- ❖ National Aeronautics and Space Administration (NASA) Space Grant Scholarship. 1999.
- ❖ National Aeronautics and Space Administration (NASA) Graduate Student Researchers Program Fellowship. 1994-96.
- ❖ Outstanding Labor Award. Awarded by the Support For University Biomedical Education (S.U.B.E.), National Institute of Health. 1991.
- ❖ Biological Honor Society, Chapter Beta Beta Beta, University of Puerto Rico. 1989.

PROFESSIONAL, LICENSES AND REGISTRATIONS

- ❖ Qualified Environmental Professional. The Institute of Professional Environmental Practice.

License number: 11040029

- ❖ Regional Coordinator. The Institute of Professional Environmental Practice.

- ❖ Local Committee member for the American Society of Limnology and Oceanography 2011 Aquatic Sciences Meeting in San Juan, PR.

- ❖ United States Merchant Marine Officer of the United State Coast Guard.

License number: 1124887