

BIOGRAPHICAL SKETCH – JORGE R. ORTIZ-ZAYAS
Institute for Tropical Ecosystem Studies, University of Puerto Rico, San Juan, PR 00931
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PROFESSIONAL PREPARATION

University of Puerto Rico	Environmental Sciences	B.S. 1991
University of Colorado at Boulder	Environmental, Population, and Organismic Biology	Ph.D. 1998

APPOINTMENTS

- Associate Professor, Institute for Tropical Ecosystem Studies, University of Puerto Rico, Rio Piedras Campus (September 1, 2003-present)
- Research Fellow- CREST Center for Tropical Applied Ecology and Conservation, University of Puerto Rico, Río Piedras Campus (September 1st, 2003– present).
- Scientific Collaborator - USDA Forest Service International Institute of Tropical Forestry, Rio Piedras, Puerto Rico (1994 – present)
- Manager, Environmental Sciences Department, CSA Group, Inc. San Juan, PR (August 2001-July 2003)
- Senior Scientist, Aquatic and Terrestrial Ecology Group, CSA Group, Inc. San Juan, PR (October 1998-August 2001)
- Hydrologist (intermittent), US Geological Survey, Water Resources Division , Denver, Colorado (1986-2004)

PUBLICATIONS

- Ortiz-Zayas, J.R., Cuevas, E., Mayol-Bracero, O.L., Donoso, L., Trebs, I., Figueroa-Nieves, D., McDowell, W.H. 2006. Urban influences on the nitrogen cycle in Puerto Rico. *Biogeochemistry* 79 (1-2): 109-133.
- Martinelli, L.A., Howarth, R., Cuevas, E., Filoso, S., Austin, A., Donoso, L., Huzsar, V., Keeney, D., Llerena, C., McIssac, G., Medina, E. Ortiz-Zayas, J.R., Scavia, S., Schindler, D.W., Soto, D., Townsend, A. 2006. The origin and fate of nitrogen in Latin America and the Caribbean. *Biogeochemistry* 79 (1-2): 3-24.
- Ortiz-Zayas, J.R. Lewis, W.M., Jr., Saunders, J.F., III, Scatena, F.N., McCutchan, J.M. 2005. The metabolism of a tropical rainforest stream. *Journal of the Northamerican Benthological Society*: 24(4): 769-783.
- Ortiz-Zayas, J.R. and Scatena, F.N. 2004. Integrated water resources management in the Luquillo Mountains, Puerto Rico: an evolving process. *International Water Resources Development Journal* 20 (3): 387-398.
- Goodrich, D.C., Stakhiv, E.Z., Browning-Aiken, A., Vache, K., Ortiz-Zayas, J.R., Blanco, J.F., Scatena, F.N., Varady, R.G., Bowden, W.B., Howland, W. 2005. The HELP (Hydrology for the Environment, Life and Policy) Experience in North America. *Proceedings of the EWRI (ASCE Environmental and Water Resources Institute) Watershed Management Conference, Williamsburg, Va.*

SYNERGISTIC ACTIVITIES

Research program in applied tropical limnology with focus on carbon metabolism, nitrogen cycling. Current research projects:

- PI on project Fluvial fluxes of carbon and nitrogen in a tropical developing island: the role of urbanization. Funded by NSF-EPSCOR (\$159,000).
- Co-PI of NSF Luquillo LTER Project Phase IV (\$6 M).
- PI on research project to study the hydrology of the breeding habitats of the endangered Puerto Rican Crested Toad (\$44,000).
- Co-PI Caribbean Coastal Scenarios Project funded through the Interamerican Institute for Global Change Research (\$50,000).
- Co-PI Teaching Ecosystem Complexity Project funded by the National Science Foundation (\$145,000)

Other activities include:

- Member of the Scientific Advisory Committee of the San Juan Bay Estuary Program
- Coordinator of the UNESCO Luquillo Mountains Hydrology for the Environment, Life and Policy (HELP) Project (2004 – present)
- Consultant to the Puerto Rico Department of Natural and Environmental Resources, Office of the Water Plan, San Juan, PR (September 2003-February 2005)
- Liaison in Puerto Rico of the Global Water Partnership (2002–present)