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# Elizabeth P. Anderson

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+1-305-348-0146

## EDUCATION

- Ph.D. Ecology**, Institute of Ecology (now Odum School of Ecology), University of Georgia, Athens, GA, USA. *Dissertation*: Ecological and social implications of hydropower development on a Neotropical watershed, Costa Rica. *Advisor*: Catherine M. Pringle. 2004
- Tropical Biology: An Ecological Approach**, Organization for Tropical Studies and Duke University, Costa Rica 2000
- B.A., Honors Program**, University of Georgia, Athens, GA USA 1998
- Advanced Spanish Grammar and Translation**, Universidad de Salamanca, Spain 1997

## PROFESSIONAL APPOINTMENTS / POSITIONS

- Assistant Professor**, Department of Earth & Environment, Florida International University, Miami, FL, USA 2017--
- Co-Director**, Tropical Conservation Institute, School of Environment, Arts & Society, Florida International University, Miami, FL, USA. 2016--
- Fulbright Specialist**, U.S. Department of State, Bureau of Educational and Cultural Affairs (Assignments: Colombia, 2015) 2014--
- Environmental Flows Consultant**, Independent. Review and design of environmental flow regimes for hydropower projects (Patuca-Honduras; Hidrowarm & Due, Ecuador) 2006--
- Director of International Research Programs**, School of Environment, Arts & Society, Florida International University, Miami, FL, USA 2013-2016
- Fulbright Scholar to Peru**, U.S. Department of State, Bureau of Educational and Cultural Affairs; **Visiting Faculty**, Universidad Nacional Mayor San Marcos, Lima, Peru 2014
- Program Executive Officer**, Global Water for Sustainability Program, Florida International University, Miami, FL, USA 2010-2013
- Conservation Sustainability Director**, Division of Environment, Culture and Conservation, The Field Museum of Natural History, Chicago, IL, USA 2008-2010
- Deputy Director and Postdoctoral Associate**, Global Water for Sustainability Program, Florida International University, Miami, FL, USA 2005-2008
- Program Coordinator**, U.S. National Science Foundation International Research Experience for Undergraduates (REU), La Selva Biological Station, Organization for Tropical Studies, Costa Rica 2004
- Instructor**, Tropical Rainforests. The Evergreen State College, Olympia, WA, USA and The Monteverde Institute, Costa Rica 2004

|   |           |
|---|-----------|
| <b>Fulbright Fellow to Costa Rica</b> , U.S. Department of State, Bureau of Educational and Cultural Affairs                          | 2001      |
| <b>Doctoral Student</b> , Institute of Ecology (now Odum School of Ecology), University of Georgia, Athens, GA, USA                   | 1999-2004 |
| <b>Aquatic Ecology Laboratory Manager</b> , Institute of Ecology (now Odum School of Ecology), University of Georgia, Athens, GA, USA | 1998-1999 |
| <b>Editorial Assistant</b> , Center for Latin American and Caribbean Studies, University of Georgia, Athens, GA, USA                  | 1998-1999 |
| <b>Peer Tutor</b> , Biology, Chemistry, Math, Spanish, French, Student Learning Center, University of Georgia, Athens, GA, USA        | 1997-1998 |

**GRANTS (Total received or managed to date: \$23,080,444)**

**Current funding (Active: \$840,870):**

|   |           |
|---|-----------|
| The Tinker Foundation. <b>Project: Sustainable Flow Management for Humans and Nature in the Andean-Amazon.</b> Role: PI (\$161,000)   | 2016-2019 |
| Pave the Way Foundation. <b>Tropical Conservation Internships: Hands-on Training, Environmental Stewardship, and Sustainability.</b> Role: PI (\$40,000)  | 2016-2017 |
| National Geographic. <b>Project: Introduced Hippos in Colombia: Consequences for Natural and Human Systems.</b> Role: PI (\$14,870)   | 2016-2017 |
| The MacArthur Foundation. <b>Project: Rios Vivos Andinos: Regionwide collaboration for conservation of free-flowing rivers.</b> Role: PI (\$300,000)  | 2016-2019 |
| National Social-Ecological Synthesis Center (SESYNC). <b>Project: Social and ecohydrological science connections for environmental flows.</b> Role: Senior Personnel (est. \$50,000)  | 2016-2017 |
| The MacArthur Foundation. <b>Project: Catchment-scale management for ecosystem, health, economic, and cultural benefits in the lower Mara River Basin: The Serengeti-Lake Victoria (SELVA) Sustainable Water Initiative.</b> Role: PI (\$275,000) | 2015-2018 |

**Past funding (\$22,239,574 received or managed):**

|   |           |
|---|-----------|
| USAID/Tanzania. <b>Project: Tanzania Integrated Water, Sanitation, and Hygiene Program.</b> Role: Program Officer (3/2010-7/2013) and Senior Personnel (7/2013-2016); PI: Maria Donoso, Florida International University (\$13,836,339) | 2010-2016 |
| U.S. Department of State, Bureau of Educational and Cultural Affairs. <b>Project: Fulbright Specialist, Environmental Science, Universidad de Santander, Colombia.</b> Role: Fulbright Specialist (estimated: \$5,000)                  | 2015      |
| USAID/ICAA through Higher Education for Development. <b>Project: Strengthening local capacity for prioritizing conservation research and action in the Colombian Amazon: A networked approach.</b> Role: PI (\$749,961)                 | 2012-2015 |
| U.S. Department of State, Bureau of Educational and Cultural Affairs. <b>Project: Ecology and Conservation of Freshwater Biodiversity in Peru's Andean-Amazon.</b> Role: Fulbright Scholar (estimated: \$17,000)                        | 2014      |
| The Global Environment & Technology Foundation / The Coca-Cola Foundation. <b>Project: Tanzania Water and Development Alliance II.</b> Role: co-PI with Maria Donoso, Florida International University (\$1,051,787)                    | 2010-2014 |

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| HidroEx. <b>Project: Travel support for Latin American graduate students to attend the Ecology and Conservation of Tropical Rivers course in Costa Rica.</b> Role: Instructor (\$10,000)   | 2013      |
| Inter-American Development Bank. <b>Project: Sustainability Report 2013: Perspectives on Central America.</b> Role: PI (\$9,987)   | 2012-2013 |
| USAID/East Africa. <b>Project: Transboundary Water for Biodiversity and Human Health in the Mara River Basin, Kenya and Tanzania.</b> Role: Program Officer; PI: Michael McClain, Florida International University (\$2,595,000)   | 2010-2012 |
| USAID/Washington (subcontract). <b>Project: A pilot environmental assessment for the Pastaza River Basin, Ecuador.</b> Role: Consultant; PI: Michael McClain, Florida International University (~\$16,000)   | 2009      |
| The Global Environment & Technology Foundation / The Coca-Cola Foundation (subcontract). <b>Project: Environmental flow assessment and strengthened information systems for the Wami River Basin, Tanzania.</b> Role: Senior Personnel; PI: Donald Robadue, University of Rhode Island (~\$90,000) | 2007      |
| USAID/Washington. <b>Project: Global Water for Sustainability Program.</b> Role: Deputy Director; PI: Michael McClain, Florida International University (~\$3,750,000)   | 2005-2008 |
| University of Georgia. <b>Dissertation Completion Award.</b> Role: Doctoral Student (~\$25,000 for tuition and stipend)  | 2003-2004 |
| University of Georgia Women's Club. <b>Diane C. Davidson Award (to support graduate research).</b> Role: Scholarship recipient (\$3000)  | 2003      |
| University of Georgia, Institute of Ecology. <b>Teaching Assistantship.</b> Role: Doctoral Student (~\$20,000 for tuition and stipend)   | 2002-2003 |
| U.S. Department of State, Bureau of Educational and Cultural Affairs. <b>Project: A study of the ecological effects of hydropower development on the Sarapiquí River Basin, Costa Rica.</b> Role: Fulbright Fellowship Recipient (\$14,000)  | 2001      |
| University of Georgia. <b>University-Wide Graduate Assistantship.</b> Role: Graduate Student (~\$45,000 for tuition and stipend)   | 1999-2002 |
| Organization for Tropical Studies. <b>Pilot Research Award: A study of the ecological effects of hydropower development on the Sarapiquí River Basin, Costa Rica.</b> Role: Graduate student (\$1500)  | 1999      |

**PUBLICATIONS** (*Journal articles; \* denotes graduate student or postdoc first author*)

|   |      |
|---|------|
| Kabogo, J., <b>E.P. Anderson</b> , P. Hyera, and G. Kajanja. Facilitating public participation in freshwater resources management: Reflections from Tanzania. Submitted to <i>Ecology and Society</i> . Accepted, in final revision.                          | 2017 |
| <b>Anderson, E.P.</b> and J.C. Veilleux. Cultural costs of tropical dams. <i>Science</i> 352:159.   | 2016 |
| *Neibaur, E.E. and <b>E.P. Anderson</b> . Sustainability of domestic rainwater harvesting systems in a rural region of Mexico. <i>Water Science and Technology</i> 00:000-000.  | 2016 |
| *Auerbach, D., B. Buchanan, A. Alexiades, <b>E.P. Anderson</b> , A.C. Encalada, E. Larson, R. McManamay, G. Poe, T. Walter, and A. Flecker. Towards rapid, rigorous and reproducible ecohydrologic classification of data scarce regions. <i>Ecohydrology</i> | 2016 |
| *Veilleux, J.C. and <b>E.P. Anderson</b> . 2015 Snapshot of water security in the Nile, Mekong, and Amazon Basins. <i>Limnology and Oceanography Bulletin</i> 25:8-14.  | 2016 |

- Gaiser, E.E., **E.P. Anderson**, E. Castañeda-Moya, L. Collado-Vides, J.W. Fouquerean, M.R. Heithaus, R. Jaffe, D. Lagomasino, N.J. Oehm, R.M. Price, V.H Rivera-Monroy, R.R. Chowdhury, and T.G. Troxler. New perspectives on an iconic landscape from comparative international long-term ecological research. *Ecosphere* 6(10):1-18. 2015
- Salisbury, D.S., **E.P. Anderson**, R. Bilsborrow, C. Campbell, J. Maldonado-Ocampo, S. Perz, E. Diaz-Zuñiga. Transforming higher education for a changing Amazon. *Investigación Universitaria, Edición Extraordinaria, Revista de la Universidad Nacional de Ucayali*. 7-9. (In Spanish) 2015
- McClain, M.E., A. Subalusky, **E.P. Anderson**, P. Ndomba, J. Mtamba, R. Tamatamah, C. Mligo, and J. Ayieko. Comparing flow regime, channel hydraulics and biological communities to infer flow-ecology relationships in the Mara River of Kenya and Tanzania. *Hydrological Sciences Journal* 59:1-19. 2014
- Anderson, E.P.** and J.A. Maldonado-Ocampo. Returning to the Colombian Amazon. *Science* 342:692-93. 2013
- \*Snyder, M.N., **E.P. Anderson**, and C.M. Pringle. A migratory shrimp's perspective on habitat fragmentation in the Neotropics: Extending knowledge from Puerto Rico. *New Frontiers in Crustacean Biology* 169-182. 2011
- Anderson, E.P.** and J.A. Maldonado-Ocampo. A regional perspective on diversity and conservation of tropical Andean fishes. *Conservation Biology* 25(1): 30-39. 2011
- \*Stiefel, J.M., A.M. Melesse, M.E. McClain, R.M. Price, **E.P. Anderson**, and N.K. Chauhan. Effects of rainwater-harvesting induced artificial recharge on the groundwater of wells in Rajasthan, India. *Hydrogeology Journal* 17:2061-2073. 2009
- Anderson, E.P.**, M. Montoya, A. Soto, H. Flores and M.E. McClain. Challenges and opportunities for co-management of a migratory fish, *Prochilodus nigricans*, in the Peruvian Amazon. *American Fisheries Society Symposium* 69:741-756. 2009
- Anderson, E.P.**, J. Sarmett, D. Robadue, and J. Tobey. How much water do we need for nature, livelihoods and people? Assessing the environmental flow of rivers in the Wami River Basin. *Basins and Coasts* 2:18-23. 2008
- Anderson, E.P.**, C.M. Pringle, and M.C. Freeman. Quantifying the extent of river fragmentation by hydropower dams in the Sarapiquí River Basin, Costa Rica. *Aquatic Conservation: Marine and Freshwater Systems* 18:408-417. 2008
- McClain, M.E., **E.P. Anderson**, and D. Ombara. Securing water for the environment in the Mara River Basin of East Africa. *Basins and Coasts* 1:4-5. 2006
- Anderson, E.P.**, C.M. Pringle, and M. Rojas. Transforming tropical rivers: An environmental perspective on hydropower development in Costa Rica. *Aquatic Conservation: Marine and Freshwater Systems* 16:679-693. 2006
- Anderson, E.P.**, M.C. Freeman, and C.M. Pringle. Ecological consequences of hydropower development in Central America: Impacts of small dams and water diversion on Neotropical stream fish assemblages. *River Research and Applications* 22:397-411. 2006

**PUBLICATIONS** (Books and book chapters)

- Jimenez-Segura, L.F., **E.P. Anderson**, and >15 coauthors. Ichthyofauna of the 2016

- Tropical Andes. International Union for the Conservation of Nature.
- Anderson, E.P.** (ed). GLOWS-FIU. A Rapid Assessment of the Aquatic and Riparian Biota of the Wami-Ruvu Basin, Tanzania. Global Water for Sustainability Program. 66 pages. 2016
- Pringle, C.M., **E.P. Anderson**, and 9 coauthors. Rivers of Costa Rica. In: Kappelle, M. and L.D. Gomez (eds), *Ecosystems of Costa Rica*. 2015
- McClain, M.E. and **E.P. Anderson**. The gap between best practice and actual practice in the allocation of environmental flows in integrated water resources management. In: Setegn, S.G. and M.C. Donoso (eds), *Sustainability of Integrated Water Resources Management: Water Governance, Climate, and Ecohydrology*. 2015
- Anderson, E.P.** (ed). *Inambari: Towards an Integrated Approach to River Basin Management*. Wildlife Conservation Society. 23 pages. 2014
- Anderson, E.P.** (ed). GLOWS-FIU. Environmental Flow Recommendations for the Ruvu River Basin, Tanzania. Global Water for Sustainability Program. 52 pages. 2014
- Anderson, E.P.** (ed). GLOWS-FIU. Wami River Sub-Basin: Environmental Flow Assessment Phase II. Global Water for Sustainability Program. 66 pages. 2014
- Anderson, E.P.** Hydropower development and ecosystem services in Central America. Inter-American Development Bank Technical Note: IDB-TB-513. 41 pages. 2013  
<http://www10.iadb.org/intal/intalcdi/PE/2013/11508.pdf>
- Subalusky, A., **E.P. Anderson**, and M.E. McClain. An Environmental Flow Assessment for the Mara River Basin, Kenya and Tanzania. Global Water for Sustainability Program, Miami, FL. 2012
- Anderson, E.P.**, A.C. Encalada, M. Ayala, A. Sanchez, C. Romero, M. Monteluisa, M.J. Ordóñez, and S. Davila. The concept of environmental flows in Ecuador: Summary of a pilot project in the Pastaza River Basin. Fundación Natura, Quito, Ecuador. 2012
- Herzog, S.K., P.M. Jørgensen, R. Martínez Güingla, C. Martius, **E.P. Anderson**, D.G. Hole, T.H. Larsen, J.A. Marengo, D. Ruiz Carrascal, H. Tiessen. Effects of climate change on the biodiversity of the tropical Andes: state of scientific knowledge. Summary for decision makers and public policy makers. Inter-American Institute for Global Change Research (IAI), São José dos Campos, Brasil. 2011
- Anderson, E.P.**, J.A. Marengo, R. Villalba, S. Halloy, B. Young, D. Cordero, F. Gast, E. Jaimes, and D. Ruiz. 2011. Consequences of climate change for ecosystems and ecosystem services in the tropical Andes. Chapter 1 in: Herzog, S.K., R. Martinez, P.M. Jorgensen, and H. Tiessen (eds). *Climate change effects on the biodiversity of the tropical Andes: An assessment of the status of scientific knowledge*. Inter-American Institute of Global Change Research (IAI) and Scientific Committee on Problems of the Environment (SCOPE). San Jose dos Campos and Paris. 2011
- Anderson, E.P.**, A. Encalada, J.A. Maldonado-Ocampo, M.E. McClain, H. Ortega, and B.P. Wilcox. Environmental flows: A tool for addressing effects of river alterations and climate change in the Andes. Chapter 23 in: Herzog, S.K., R. Martinez, P.M. Jorgensen, and H. Tiessen (eds). *Climate change effects on the biodiversity of the tropical Andes: An assessment of the status of scientific knowledge*. Inter-American Institute of Global Change Research (IAI) and Scientific Committee on Problems of the Environment (SCOPE). San Jose dos Campos and Paris. 2011
- Rivadeneira, J.F., **E.P. Anderson**, and S. Davila. *Common fishes of the Pastaza River Basin*. 2010

- Fundación Natura, Quito, Ecuador. 31 pages. (In Spanish)
- C. Vriesendorp, W. Alverson, D. Moskovits, D. Stotz, S. Fuentes, B. Coronel-Tapia, and **E.P. Anderson**, editors. *Ecuador: Cabeceras Cofanes-Chingual*. Rapid Biological Inventories Report 21. The Field Museum, Chicago. 2009
- Maldonado-Ocampo, J.A., A. Torres-Noboa, and **E.P. Anderson**. Fishes. In: C. Vriesendorp, W. Alverson, D. Moskovits, D. Stotz, S. Fuentes, B. Coronel-Tapia, and E.P. Anderson (eds). *Ecuador: Cabeceras Cofanes-Chingual*. Rapid Biological Inventories Report 21. The Field Museum, Chicago. 2009
- Beard, T.D., H. Allan, **E.P. Anderson**, and K.L. Smith. Tradeoffs in management of freshwater ecosystem services under international environmental conventions: The case of inland waters fisheries. In: Schechter, M.G., W.W. Taylor, and N.J. Leonard (eds). *International governance of fisheries ecosystems: Learning from the past, finding solutions for the future*. American Fisheries Society, Bethesda, MD. 2009
- Anderson, E.P.** and J. Sarmett. 2008. *An initial environmental flow assessment for the Wami River sub-Basin, Tanzania*. Technical report prepared for the Tanzanian Ministry of Water and Irrigation. 151 p. 2008
- Saunders, T.J., **E.P. Anderson**, and J.E. Celi. 2007. *Status and trends of water quality in the Pastaza River Basin, Ecuador*. Technical report prepared for the Secretaria Nacional del Agua (Ecuador) and the Global Water for Sustainability Program. 150 pages. 2007
- Anderson, E.P.**, C.G. McNally, B. Kalangahe, H. Ramadhani, and H. Mhitu. *The Wami River Estuary, Tanzania: A rapid ecological assessment*. Technical report prepared for the Tanzania Coastal Management Partnership and the Coastal Resources Center, University of Rhode Island. 35 pages 2007
- Seares, J., K. Smith, **E.P. Anderson**, and C.M. Pringle. Effects of globalization on freshwater biodiversity and strategies for conservation. In Taylor, W.W., M.G. Schechter, and L.G. Wolfson (eds). *Globalization: Effects on Fisheries Resources*. 2007

#### **PUBLICATIONS** (Other)

- Litzinger, M., **E.P. Anderson**, B. Martinez-Guerrero, and J.A. Maldonado-Ocampo. Where the Andes Meet the Amazon: Bringing the Fairchild Challenge to the Colombian Amazon. *The Tropical Garden*, Fairchild Tropical Botanic Garden, Spring Issue. 2014
- Anderson, E.** Electricity sector reform means more dams for Costa Rica. *World Rivers Review* 17:3. 2002

#### **TEACHING EXPERIENCE: Graduate Level**

##### ***Florida International University***

- Amazon Biodiversity Conservation: Protected Areas and Influences of Scale. Field Course at Amacayacu National Park, Colombia (Coordinator and Instructor) 2014
- Experimental Design and Field Techniques for Biodiversity Conservation Research in the Andean Amazon, Florencia, Colombia (Coordinator and Instructor) 2013
- Integrated Solutions for Water in Environment and Development (EVR 5332) 2006-2013
- Independent Study in Conservation Issues 2013-on

|  |                      |
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| Guest Lectures in Conservation Biology, Resource Management, among other courses<br><b>Organization for Tropical Studies, Costa Rica</b>   | 2010-on              |
| Ecology and Conservation of Neotropical Rivers, Field Course in Costa Rica. Graduate Specialty Course offered every 2-3 years. (Coordinator and Instructor)                                      | 2011-present         |
| Tropical Ecology: An Ecological Approach – English and Spanish courses (Resource Faculty on Tropical River Ecology and Conservation)<br><b>Universidad Nacional Mayor San Marcos, Lima, Peru</b> | 2013,2005<br>2000-02 |
| Ecology and Conservation of Tropical Rivers (Instructor)   | 2014                 |
| <b><u>TEACHING EXPERIENCE: Undergraduate Level</u></b>   |                      |
| <b>Universidad de Santander, Colombia</b><br>Integrated Water Resources Management   | 2012                 |
| <b>The Evergreen State College, Washington</b><br>Tropical Rainforests, Field Course in Costa Rica (Co-Instructor with John Longino)   | 2004                 |
| <b>University of Georgia</b><br>Costa Rica Ecology Program (Resource Faculty)  | 2003-2004            |
| Honors Interdisciplinary Field Program in Geology, Anthropology and Ecology. (Ecology Instructor)  | 2003                 |
| Tropical Ecology and Field Research in Costa Rica (Teaching Assistant)   | 2001-2003            |
| Introduction to Ecology – ECOL 3500 (Lead Teaching Assistant)  | 2002                 |
| Ecological Basis for Environmental Issues – ECOL 1000 (Teaching Assistant)   | 1999                 |
| Peer Tutor, University of Georgia Learning Center: Biology, Chemistry, Math, Spanish and French  | 1997-1998            |
| <b><u>TEACHING EXPERIENCE: Training and Technical Courses</u></b>  |                      |
| Tutorial on environmental flows: scientific concepts and practical applications. Audience: Tanzanian Ministry of Water. Duration: 2 days; Location: <b>Tanzania</b>                              | 2014                 |
| Environmental flow assessment for freshwater biodiversity conservation. Audience: academics, environmental consultants, government. Duration: 1 day; Location: <b>Lima, Peru</b>                 | 2014                 |
| Environmental flows for freshwater biodiversity conservation. Audience: academics, environmental consultants, government. Duration: 2 days; Location: <b>Bogotá, Colombia</b>                    | 2013                 |
| Forest inventory Methods for REDD Projects, Cordillera Azul National Park, Peru. Audience: Park guards. Duration: 5 days; Location: <b>Tarapoto, Peru</b>  | 2009                 |
| Environmental Flows: Principles, Methodologies, and Examples of Implementation. Audience: academics, environmental consultants, government. Duration: 5 days; Location: <b>Quito, Ecuador</b>    | 2009                 |
| Forest Inventory Methods for Carbon Projects, Cordillera Azul National Park, Peru. Audience: Park guards. Duration: 7 days; Location: <b>Lima and Tarapoto, Peru</b>                             | 2008                 |
| Participatory Water Quality Monitoring. Audience: NGOs, local governments. Duration: 2 days; Location: <b>Riobamba, Ecuador</b>  | 2007                 |
| Management, Conservation and Restoration of Central American Wetlands, Palo Verde,   | 2006-2007            |

Costa Rica. Audience: conservation practitioners. Duration: 7 days; Location: ***Palo Verde, Costa Rica***

**GRADUATE ADVISOR(\*), RESEARCH MENTOR or COMMITTEE MEMBER (15)**

Catherine Bravo (PhD, FIU); Katherine Brownson (PhD; Univ of Georgia); Belen Fadrique (PhD, FIU); Cindy Lewis (PhD, FIU); Mark Ladd (PhD, FIU); Ana Lemos (MS, FIU); Andrew Shantz (PhD, FIU, 2016); David Robles (PhD, FIU); Elena Neibaur\* (MS, FIU, 2015); Rebeca de Jesus (PhD, Univ of Georgia, 2015); Drew Cooper (MA, Univ. of Miami, 2011); Ximena Mesa (MS, FIU, 2010); Catherine McNally (PhD, Univ of Rhode Island, 2007); John Stiefel (MS, FIU, 2007); Miriam Ramos (MS, Univ. of Missouri, 2000)

**UNDERGRADUATE MENTOR OR RESEARCH SUPERVISOR (9)**

Maria Jose Ordóñez, Escuela Politecnica de Ecuador (2009); Nasser Brahim, FIU (2005-06); Pamela Sullivan, University of British Columbia (2005); Suzanne Alvarez, Princeton University (2004); Liabeth Yohannes, Wesleyan University (2004); Andrea Suarez, Universidad Nacional Autonoma, Costa Rica (2004-06); Suzanne Mollendorf, Wellesley College (2001); Bishara Baddour, Univ of Georgia (2001); Paul Chmura, Univ of Georgia (2001)

**AWARDS (8)**

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|---|-----------|
| Operational Excellence Award, Florida International University                      | 2007      |
| Environmental Policy Award, Institute of Ecology, University of Georgia             | 2004      |
| Outstanding Teaching Assistant Award, University of Georgia                         | 2003      |
| Distinguished Teaching Assistant Award, Institute of Ecology, University of Georgia | 2003      |
| Honors Program Certificate of Academic Achievement, Univ. of Georgia                | 1998      |
| Modern Languages Scholarship for Study Abroad (Spain), University of Georgia        | 1997      |
| HOPE Scholarship, Full tuition support, University of Georgia                       | 1994-1998 |
| Regents Scholarship, University of Georgia  | 1994-1995 |

**INVITED SEMINARS (40) \*denotes major international event**

***International (17)***

|   |      |
|---|------|
| Aguas Amazónicas Conference, Wildlife Conservation Society, Lima, Peru                | 2016 |
| Universidad de Santander, Bucaramanga, Colombia (2 seminars)                          | 2015 |
| Municipal Government of Bucaramanga, Colombia   | 2015 |
| USAID/Peru, Lima, Peru  | 2014 |
| Universidad San Francisco de Quito, Ecuador   | 2014 |
| Museum of Natural History, Universidad Nacional Mayor San Marcos, Lima, Peru          | 2014 |
| Latin American Conference of Environmental Ministers, Bogotá, Colombia                | 2013 |
| *Rio+20, United Nations Conference on Sustainable Development, Rio de Janeiro, Brazil | 2012 |
| Pontificia Universidad Javeriana, Bogotá, Colombia                                    | 2012 |
| Universidad Nacional Autonoma, Heredia, Costa Rica                                    | 2012 |



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| Universidad Distrital Francisco Jose de Caldas, Bogotá, Colombia   | 2010 |
| Universidad San Francisco de Quito, Ecuador  | 2007 |
| Spanish Institute for Research and Food Science Technology, Spain  | 2006 |
| New Water Culture Foundation, Spain  | 2006 |
| *The 4 <sup>th</sup> World Water Forum, Mexico   | 2006 |
| Costa Rican Institute of Electricity   | 2003 |
| Organization for Tropical Studies, La Selva Biological Station Advisory Committee Meeting,<br>Costa Rica | 1999 |

### **USA (23)**

|  |      |
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| Cary Institute for Ecosystem Studies, NY   | 2016 |
| H.T. Odum Center for Wetlands, University of Florida, Gainesville, FL                      | 2016 |
| Zoo Miami  | 2016 |
| University of Colorado, Law School, Boulder, CO  | 2016 |
| Miami Dade College, Earth Ethics Institute   | 2016 |
| Florida International University, Dept. of Earth & Environment, Miami, FL                  | 2015 |
| Zoo Miami  | 2013 |
| *Inter-American Conference of Mayors and Local Authorities, Miami, FL                      | 2013 |
| Florida International University, Dept. of Biological Sciences, Miami, FL                  | 2013 |
| Duke University, Durham, North Carolina  | 2013 |
| University of Georgia, Odum School of Ecology, Athens, GA                                  | 2013 |
| Ransom Everglades High School, Miami, FL   | 2013 |
| Inter-American Development Bank, Washington, DC (2 seminars)                               | 2012 |
| University of Nebraska, Water for Food Institute; School of Natural Resources, Lincoln, NE | 2012 |
| Florida International University, Dept. of Biological Sciences, Miami, FL                  | 2012 |
| Fairchild Tropical Botanic Garden, Miami, FL   | 2012 |
| DePaul University, Department of Environmental Studies, Chicago, IL                        | 2012 |
| Florida International University, Miami, FL (2 seminars)                                   | 2010 |
| University of Georgia, Odum School of Ecology Graduate Student Symposium                   | 2010 |
| DePaul University, Department of Biology, Chicago, IL                                      | 2010 |
| The Field Museum of Natural History, Chicago, IL   | 2010 |
| The Field Museum of Natural History, Chicago, IL   | 2008 |
| Florida International University, Department of Environmental Studies, Miami, FL           | 2004 |

### **ATTENDANCE AT SCIENTIFIC CONFERENCES**

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|---|--------------------|
| Annual Meeting of the American Association for Geographers (invited symposium speaker)  | 2016               |
| Latin American Studies Association, 50 <sup>th</sup> Anniversary Meeting (invited symposium speaker)                                | 2016               |
| Annual Meeting of the Ecological Society of America (invited symposium speaker 2015)  | 2005,<br>2007,2015 |
| Annual Meeting of the Association for Tropical Biology (invited symposium speaker 2013)   | 2004,2013          |
| XII Colombian Congress of Ichthyology and III Encounter of South American<br>Ichthyologists (invited pre-meeting course instructor) | 2013               |
| Annual Meeting of the Society for Freshwater Science (invited symposium speaker, 2007)  | 2003,2007          |
| Inter-American Conference of Mayors and Local Authorities, Panel Sessions on Water<br>Resources Issues, Miami, FL                   | 2005-07            |

World Water Week, Stockholm, Sweden (invited symposium speaker) 2007

### **MEETINGS AND WORKSHOPS**

Low-Cost Solutions for Water Monitoring, Musoma, Tanzania. (Organizer, Facilitator) 2016

Climate Reality Leadership Training, Sponsored by Al Gore and The Climate Reality Project. Miami, FL. (Participant) 2015

Perspectives on Conservation and Development of Andean-Amazon Rivers. Bogotá, Colombia. (Organizer) 2015

USAID Initiative for Conservation in the Andean Amazon II: Higher Education Partnership Program, Annual Conference Meeting. Pucallpa, Peru. (Participant) 2015

NSF Florida Coastal Everglades-LTER All Scientists' Meeting Workshop, Miami, FL (Participant) 2015

International Symposium on Environmental Flows and Integrated River Basin Management in Colombia and the Andean Region. Bogotá, Colombia. (co-Organizer and Participant) 2014

Train the Trainers: Active Techniques for Scientific Teaching workshop. Organized by the American Museum of Natural History and Univ. of Florida. Peru (Participant) 2014

USAID Initiative for Conservation in the Andean Amazon II: Higher Education Partnership Program, Annual Conference Meeting. Leticia, Colombia. (Organizer) 2014

Environmental Flows in the Andes. Sponsored by Cornell University and the Universidad San Francisco de Quito, Ecuador (Invited Participant) 2014

Data Analysis and Consolidation for Environmental Flow Methodology for the Republic of Georgia. Delft, The Netherlands (Invited Expert) 2014

Development of an Environmental Flow Assessment Framework and Methodology for the Republic of Georgia. Tbilisi, Georgia. (Invited Expert) 2014

Workshops (2) on the development of an environmental flow prescription for the Ruvu River, Tanzania (Facilitator and Participant) 2013-14

Workshop on revision and inter-institutional exchange of curricula in conservation biology. Sponsored by Partners for Conservation in the Colombian Amazon. Bogota, Colombia. (Organizer and Facilitator) 2013

Sustainability Report Panel. Sponsored by the Inter-American Development Bank, Washington, DC (Invited Expert/Panelist) 2013

Annual Meeting of the Partners for Conservation in the Colombian Amazon program, Bogotá, Colombia (Organizer) 2013

USAID Initiative for Conservation in the Andean Amazon II: Higher Education Partnership Program, Annual Conference Meeting. Tiputini, Ecuador. (Participant) 2013

USAID Initiative for Conservation in the Andean Amazon II: Higher Education Partnership Program, Launch Meeting. Washington, DC (Participant) 2012

Sustainability Report Review Session Sponsored by the Inter-American Development Bank, Washington, DC (Invited Expert/Panelist) 2012

Mara River Basin conference. Sponsored by USAID/East Africa and the Global Water 2012

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| for Sustainability Program, Florida International University, Dar es Salaam, Tanzania<br>(Organizer and Facilitator)  |           |
| Workshops (3) on the development of an environmental flow prescription for the<br>Mara River in Tanzania. Sponsored by the Tanzanian Ministry of Water, USAID, and<br>Florida International University, Dar es Salaam, Tanzania (Organizer and Facilitator)   | 2011-2012 |
| NSF Research Coordination Network on Long-term Change in Tropical Ecosystems.<br>Sponsored by the Organization for Tropical Studies, Costa Rica (Invited participant)   | 2012      |
| Workshops (4) on the declaration of a new protected area in northern Ecuador.<br>Sponsored by The Field Museum, the Municipal Government of Sucumbios and the<br>Ecuadorian Ministry of the Environment, Ecuador (Organizer and Facilitator)  | 2008-2010 |
| Workshops (3) and training courses on the development of a REDD project<br>(Reduced Emissions from Deforestation and Degradation) for Cordillera Azul<br>National Park, Peru (Organizer)  | 2008-2010 |
| Workshop on the assessment of research and institutional needs to cope with<br>the effects of climate change on Andean biodiversity. Sponsored by the Inter-<br>American Institute, SCOPE, and the MacArthur Foundation, Ubatuba, Brazil (Invited<br>expert on Andean rivers)                                       | 2009      |
| Workshop on the development of a conservation vision for the Bolivian Amazon: Our<br>Amazonia, Our Future. Cobija, Bolivia. (Organizer)   | 2009      |
| Workshop on Integrated Water Resources Management in the Wakal River Basin,<br>India. (Co-organizer and Facilitator)  | 2008      |
| Workshops (3) on environmental flow assessment for the Wami River, Tanzania.<br>Sponsored by the Tanzanian Ministry of Water and the Tanzanian Coastal<br>Management Partnership, Dar es Salaam, Tanzania (Organizer and Facilitator)   | 2007      |
| Special panel session at the Interamerican Conference of Mayors and Local<br>Authorities. Miami, FL, USA, Payment for Environmental Services as a Strategy for<br>Water Resources Management. (Organizer and Facilitator)   | 2007      |
| Workshop on the development of environmental flow recommendations for the<br>Patuca River, Honduras, downstream from the proposed Patuca III Dam.<br>Sponsored by the Honduran National Electricity Company (ENEE) and The Nature<br>Conservancy, Tegucigalpa, Honduras (Invited Expert on Central American rivers) | 2006      |
| Workshop on integrated water resources management in the Wakal River Basin,<br>Rajasthan, India. (Organizer)  | 2006      |
| Special panel session at the Inter-American Conference of Mayors and Local<br>Authorities. Miami, FL, USA, Meeting the Millennium Development Goals for<br>Water and Sanitation in Latin America. (Organizer and Facilitator)   | 2006      |
| Special panel session at the Inter-American Conference of Mayors and Local<br>Authorities. Miami, FL, USA, Pure Water for Your City: Challenges and Solutions for<br>Water Resource Management. (Organizer and Facilitator)   | 2005      |
| Public hearings on a proposal for a new water law in Peru. Iquitos and Tarapoto,<br>Peru. Sponsored by the Peruvian government, WWF-Peru and the Global Water for<br>Sustainability Program. (Organizer and Participant)  | 2005      |
| Workshop on environmental flows for Costa Rica. Sponsored by IUCN and the<br>Organization for Tropical Studies, San Jose, Costa Rica. (Participant)   | 2004      |

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| Freshwater Biodiversity Conservation in Central America. Conference sponsored by The Nature Conservancy. Lago Yojoa, Honduras. (Participant)   | 2002 |
| Workshop on the development of a management plan for the Sarapiquí River Basin. Sponsored by the World Bank and the Costa Rican Institute of Electricity. Puerto Viejo de Sarapiquí, Costa Rica. (Participant) | 2002 |
| Workshop on the ecological impacts of the Cariblanco Hydropower Project. Sponsored by the Costa Rican Institute of Electricity. Sarapiquí, Costa Rica. (Participant)   | 2001 |
| La Selva Advisory Committee Meeting. Puerto Viejo, Costa Rica (Invited Participant)  | 1999 |

### **MEDIA**

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| Environmental Conservation Efforts in the Andean Amazon Prove Fruitful:<br><a href="http://news.fiu.edu/2014/02/environmental-conservation-efforts-in-the-andean-amazon-prove-fruitful/73981">http://news.fiu.edu/2014/02/environmental-conservation-efforts-in-the-andean-amazon-prove-fruitful/73981</a>  | 2014 |
| An Alliance for the Conservation of Amazonian Biodiversity:<br><a href="http://www.javeriana.edu.co/noticias/noticias?aID=594426&amp;tID=22767#.UxT_mdzspG6">http://www.javeriana.edu.co/noticias/noticias?aID=594426&amp;tID=22767#.UxT_mdzspG6</a>  | 2014 |
| Conservation Ecologist Puts Focus on Water Resources Management in Latin America:<br><a href="http://news.fiu.edu/2013/08/conservation-ecologist-puts-focus-on-water-resources-management-in-latin-america/65030">http://news.fiu.edu/2013/08/conservation-ecologist-puts-focus-on-water-resources-management-in-latin-america/65030</a>                              | 2013 |
| Inhabitants of the Amazon Have Studied Little of their Region:<br><a href="http://www.elespectador.com/noticias/actualidad/vivir/habitantes-de-amazonia-estudian-poco-su-region-articulo-455668">http://www.elespectador.com/noticias/actualidad/vivir/habitantes-de-amazonia-estudian-poco-su-region-articulo-455668</a>   | 2013 |
| FIU Partners with Colombian Universities for Environmental Conservation in the Amazon:<br><a href="http://news.fiu.edu/2013/02/fiu-partners-with-colombian-universities-for-environmental-conservation-in-the-andean-amazon/51863">http://news.fiu.edu/2013/02/fiu-partners-with-colombian-universities-for-environmental-conservation-in-the-andean-amazon/51863</a> | 2013 |

### **REVIEWING ACTIVITIES**

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| Science; Nature; Frontiers in Ecology and Environment; Inter-American Development Bank; PLoS ONE; Annals of the Association of American Geographers; Journal of Freshwater Science; Freshwater Biology; River Research and Applications; Environmental Management; Journal of Environmental Management; Hydrological Processes; Ecology of Freshwater Fishes; Journal of Fish Biology; Marine and Freshwater Research; Coastal Management; Hydrobiologia; Ecohydrology | 2008-present |
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### **SELECT COMMUNITY SERVICE**

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| Pineview Schools Career Day – speaker. Miami, FL.  | 2015 |
| Ransom Everglades High School lecture on global water resources, Miami, FL.  | 2013 |
| Careers in Conservation – discussion leader. Biology Student Association, Florida International University, Miami, FL. | 2011 |
| Real World Stories of Women and Water. Women’s discussion group. The Field Museum of Natural History, Chicago, IL.     | 2009 |

The Life of an Ecologist. Career Day, Gulliver Preparatory Schools, Miami, FL.  
BBC World Radio program, Invited Expert on Water Issues, Miami, FL.

2009  
2005