

Omar Gutiérrez del Arroyo Santiago

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Education

University of California – Berkeley

Ph.D. in Ecosystem Science and Biogeochemistry 2014 - Present
Advisor: Dr. Whendee Silver

University of Puerto Rico - Río Piedras

M.S. in Biology 2012 – 2014
Summa cum laude
Advisor: Dr. Ariel E. Lugo

B.S. in Integrative Biology 2008 – 2012
Summa cum laude

Research and Teaching Experience

NSF-REU at El Verde Field Station (Summer 2010)

- Mentors: Dr. Jess K. Zimmerman and Christopher Nytch
- Project: The effects of microhabitat variability on intra-annual seedling mortality in a montane tropical forest

SURF Program at Boston University/Harvard Forest (Summer 2011)

- Mentors: Dr. Pamela Templer and Dr. Andrew Reinmann
- Project: Stem CO₂ efflux of red oak and red maple in a snow-manipulation experiment

Volunteer with the International Institute of Tropical Forestry (IITF), USDA Forest Service (August 2010–August 2014)

- Mentors: Dr. Ariel E. Lugo and Dr. Tana E. Wood
- Project: Temporal variability of soil CO₂ efflux in a moist subtropical novel forest in Arecibo, Puerto Rico

Technician in Dr. Whendee Silver's Lab at UC Berkeley (July 2012)

- Assisted in projects studying carbon cycling in California rangelands and a Puerto Rican subtropical wet forest

Teacher Assistant in Ecology course at UPR-RP (August 2012-May 2013)

- Assist Dr. Elvira Cuevas and Dr. Alberto Sabat with lectures and tests

Grants and Awards

- 2014 ESA Soil Ecology Section Travel Award: \$600
- 2014 National Science Foundation – Graduate Research Fellowship
- 2014 Berkeley Fellowship for Graduate Study
- Puerto Rico NASA Space Grant Fellowship for 2013-14 academic year: \$15,000 for stipend and tuition
- 2013 Western Ag Student Award: 50 PRS-Probes valued at \$2,200
- Sigma Xi Grants-in-Aid of Research, 2012: \$500 for research materials
- Ecological Society of America-Student Section Award for Best Undergraduate Poster Presentation at the 2012 ESA Annual Meeting at Portland, Oregon.
- SEEDS Student Travel Award to present at the 2012 Ecological Society of America Annual Meeting in Portland, Oregon: \$1,000
- NSF BIO REU Travel Scholarship to present at the 2011 Ecological Society of America Annual Meeting: \$1,000
- The Puerto Rico Louis Stokes Alliance for Minority Participation, 2010-2011: \$800 stipend/semester of research (2 semesters)
- Rafael Carrión Jr. Award from Banco Popular of Puerto Rico, 2008: \$1,000

Oral and Poster(*) Presentations

Gutiérrez del Arroyo, O., and Nytch C. 2011. The effects of microhabitat variability on intra-annual seedling mortality in a montane tropical forest. Puerto Rico Interdisciplinary Scientific Meeting, Bayamón, P.R.

*Gutiérrez del Arroyo, O., and Nytch C. 2011. The effects of microhabitat variability on intra-annual seedling mortality in a montane tropical forest. Ecological Society of America Annual Meeting, Austin, Texas.

*Gutiérrez del Arroyo, O., Reinmann, A., and Templer P. 2011. Vertical variations in stem CO₂ efflux in a temperate forest. Boston University SURF Program Presentations, Boston, MA.

Gutiérrez del Arroyo, O., Wood, T.E., and Lugo A.E. 2012. Strong seasonal and diel variation in soil CO₂ efflux in a moist subtropical forest. Puerto Rico Interdisciplinary Scientific Meeting, Carolina, P.R.

*Gutiérrez del Arroyo, O., Wood, T.E., and Lugo A.E. 2012. Strong seasonal and diel variation in soil CO₂ efflux in a moist subtropical karst forest in Puerto Rico. Luquillo LTER Annual Meeting, University of Puerto Rico-Río Piedras, P.R.

*Gutiérrez del Arroyo, O., Wood, T.E., and Lugo A.E. 2012. Strong seasonal and diel variation of soil CO₂ efflux in a moist subtropical forest in Puerto Rico. Ecological Society of America Annual Meeting, Portland, Oregon.

Gutiérrez del Arroyo, O., Wood, T.E., and Lugo A.E. 2013. Temperature-driven seasonal & diel variation in soil CO₂ efflux in a moist subtropical forest in Puerto Rico. Association for Tropical Biology and Conservation Meeting, San Jose, Costa Rica. **(Invited speaker)**

Gutiérrez del Arroyo, O., Wood, T.E., and Lugo A.E. 2013. Seasonal and diel variation of soil respiration in a moist subtropical forest in Puerto Rico. Symposium on The Biological Impacts of Tropical Warming for Ectothermic Animals, San Juan, Puerto Rico. **(Invited speaker)**

*Gutiérrez del Arroyo, O., Wood, T.E., and Lugo A.E. 2013. Temperature-driven seasonal and diel variation in soil respiration in a moist subtropical forest in Puerto Rico. American Geophysical Union Fall Meeting, San Francisco, California.

Gutiérrez del Arroyo, O., Wood, T.E., and Lugo A.E. 2014. Controls on diel variation of soil respiration in a novel subtropical moist forest in Puerto Rico. Ecological Society of America Annual Meeting, Sacramento, California.

Gutiérrez del Arroyo, O. and Wood T.E. 2014. Interpreting diel patterns of soil respiration in a moist subtropical novel forest: identifying drivers and proposing hypotheses. American Geophysical Union Fall Meeting, San Francisco, California.

Technical Skills and Proficiencies

- LI-COR 8100 and 6400 infrared gas analyzers to measure soil CO₂ efflux
- Gas Chromatographer to measure CO₂, CH₄, and N₂O concentrations
- Proficiency in both English and Spanish

Memberships

- American Geophysical Union
- Ecological Society of America