

Carlos A. Ortiz-Alvarado, MS.

Department of Biology, University of Puerto Rico – Río Piedras
PO Box 23360, San Juan, PR 00931-22360
Phone: (787) 764-0000; x.88136
email: carlos.ortiz46@upr.edu

Professional Preparation

Inter American University of Puerto Rico, Bayamon, PR	Biology	B.S., 2012
Inter American University of Puerto Rico, Bayamon, PR	Biology, Major in Ecology	MS., 2015
University of Puerto Rico, Rio Piedras, PR	Biology	Ph.D., 2016-Present

Research Interests

I am particularly interested in the fields of sociogenomics, particularly transcriptomes. I find myself drawn to how the environment interacts directly and indirectly with genomes and genetic expression in a social environment and how, in turn, genes respond to environmental stimuli through changes in expression of the organism's phenotypic traits (e.g. behavior). This particular field of research may help us understand how selective pressures interact with populations, and how genetic responses help the development of adaptive traits that ultimately play a major role in the overall evolutionary life history of such populations. Furthermore, we can also explain how environmental interactions during the developing stages of an individual can ultimately influence the way and rate certain genes are expressed, thusly, changing how the individual responds and interacts with its surrounding.

Research Experience

2016-present University of Puerto Rico – Rio Piedras, PhD Research Student; behavior, transcriptome, genetic population and gene expression (Mentor: Dr. Tugrul Giray)
2012-2015 Inter American University Rico – Bayamón, MS Research Student; population genetics and gene expression (Mentor: Dr. Bert Rivera-Marchand)
2009-2012 Inter American University Rico – Bayamón, PRLS-AMP BS Student; behavior (Mentor: Dr. Bert Rivera-Marchand)

Awards and Presentations

- First place for graduate poster at the Agri-science Education for the 21st Century: Diversity, Access, and Success Conference
 - Florida International University, Miami FL (November 2014)
- Dr. Agustín Stahl Grant
 - October 2013
- First place for poster presentation at the 11th Annual MGE@MSA/WAESO Student Research Conference
 - Arizona State University, Tempe AZ (March 2013)
- Participated at the ESA Entomological Society of America
 - December 2010/2013
- Participated at the ACS Junior Technical Meeting Puerto Rico Interdisciplinary Scientific Meeting (JTM/PRISM)
 - March 2010/2011/2012
- Participated in Scientific Congress at the Inter American University of Puerto Rico
 - November 2010/2011

- UIA-Bayamon Campus Chancellor's list Honor Award
 - November 2008, 2009, 2010, 2011
- Inter-American University Honors Program Scholarship
 - August 2007 - May 2009