

# ANA CECILIA RIVERA-BURGOS

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## EDUCATION

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**North Carolina State University, Raleigh** Expected Graduation, August 2019  
Department of Applied Ecology  
*Master of Science in Zoology*

**University of Puerto Rico at Mayaguez** December 2014  
School of Agricultural Sciences  
*Bachelor of Agricultural Science in Animal Husbandry*

## GRANTS

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US Fish & Wildlife Service/USGS, "Optimal Sampling of Animal Communities", \$423,018.87 2014-2019

US Fish & Wildlife Service/USGS, "Applying Downscaled Climate Projections to Inform Decisions on Strategic Habitat Conservation for Amphibians in Puerto Rico", \$229,832.68 2014-2019

## RESEARCH EXPERIENCE

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**North Carolina State University** May 2016-present  
**Graduate Research Assistant, Dr. Jaime Collazo**  
**Raleigh, North Carolina**

- Perform exploratory *Eleutherodactylus* surveys utilizing ARBIMON audio monitoring system.
- Coordinate sampling and vegetation surveys, delegating a group of technicians.
- Monitor *Eleutherodactylus* reproduction using possible future population management techniques.
- Utilize weather monitoring technology to collect data from 48 sampling sites.
- Conduct a pilot experiment in Guanica State Forest, verifying the presence of certain *Eleutherodactylus* species.
- Construct *Eleutherodactylus* holding terrarium for the purpose of performing critical thermal limit experiments on *Eleutherodactylus wightmanae*, *Eleutherodactylus brittoni* and *Eleutherodactylus antillensis*.

**North Carolina State University**  
**Graduate Research Assistant**  
**Puerto Rico**

June-July 2016

- Conducted bird surveys
- Performed bird banding and took physiological measurements of endemic and native species.
- Performed telemetry, tracked the Puerto Rican Bullfinch, in NRCS Partner coffee farms and surrounding forests.
- Completed vegetation surveys of approximately 30 bird survey sites and banding locations.

**U.S. Fish and Wildlife Service**  
**Sunia Summer Intern (NRCS and USFWS)**  
**Cabo Rojo, Puerto Rico**

June-July 2012

- Responsible for the USFWS tropical plant propagation green house.
- Administered verbal surveys to farm owners for the conservation initiative of the Rio Loco/Guanica Bay Watershed Project.
- Participated in a habitat restoration and revegetation project at the Laguna Cartagena National Wildlife Refuge.
- Presented project at the USFWS Southeast Regional Offices, Atlanta, GA.

**PUBLICATIONS**

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**Rivera Burgos, A.C., J.A. Collazo & A. Terando.** “Coping with Extreme Weather Events in Puerto Rico: Amphibian Research and Hurricane Maria.” The Global Change Forum, 23 Oct. 2018. [globalchange.ncsu.edu/coping-with-extreme-weather-events-in-puerto-rico-amphibian-research-and-hurricane-maria/](http://globalchange.ncsu.edu/coping-with-extreme-weather-events-in-puerto-rico-amphibian-research-and-hurricane-maria/).

**PRESENTATIONS AND INVITED LECTURES**

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“Frogs, Hurricanes and Environmental Change: Indexing Abundance and Reproduction to Habitat Characteristics in Eleutherodactylid Frogs in Puerto Rico.” Eastern Illinois University, Charleston, IL, November 7, 2018.

“Sunia Summer Internship 2012: Habitat Restoration Efforts through the Guánica Bay/Río Loco Watershed Partnership,” Conservation Trust of Puerto Rico, San Juan, PR, August 2012.

“Sunia Summer Internship 2012: Habitat Restoration Efforts through the Guánica Bay/Río Loco Watershed Partnership,” U.S. Fish and Wildlife Service Southeast Regional Offices, Atlanta, GA, July 2012.

“Sunia Summer Internship 2012: Habitat Restoration Efforts through the Guánica Bay/Río Loco Watershed Partnership,” Cabo Rojo National Wildlife Refuge, Cabo Rojo, PR, July 2012.

## **PROFESSIONAL TRAINING**

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### **Occupancy Modeling Workshop**

North Carolina State University, Raleigh, NC, October 3-7, 2016

### **Dynamical Downscaling Climate Workshop**

International Institute of Tropical Forestry, Río Piedras, PR, August 17-18, 2016

## **PROFESSIONAL EXPERIENCE**

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### **Tai South Farms**

2014

#### **Animal Science Practicum, UPRM**

#### **Lajas, Puerto Rico**

- Fed cattle, administered medication, monitored reproductive cycle, herded cattle into milking parlor, performed cow milking, assisted in parturitions of cows and sows.
- Managed pastures and worked with heavy machinery to prepare land for grazing.
- Performed genetic record keeping of cattle, and physical ear tagging.

### **Miradero Veterinary Clinic**

2013

#### **Veterinary Care Assistant**

#### **Mayaguez, Puerto Rico**

- Assisted on call Veterinarian, cleaned holding cages, administered medication, dealt with pet owners, performed procedure preparations.

### **Podiatry Private Practice**

2007-2011

#### **Secretary**

#### **Mayaguez, Puerto Rico**

- Managed personnel and patients
- Performed general book keeping and medical billing

## **LANGUAGES**

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Fluent in Spanish and English.

## **COMPUTER SKILLS**

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### **Programs**

- Microsoft Office; Word, Excel, PowerPoint
- Presence, R, SAS, MARK
  - Animal modeling and statistical analysis
- Arbimon
  - Audio presence monitoring
- Garmin Basecamp, GIS
  - Mapping and topography analysis
- HOBOWare
  - Weather monitoring and environment data collection