

# Bolívar Aponte Rolón

PH.D. CANDIDATE

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Ecologist.

## Education

### Tulane University, Department of Ecology and Biology

New Orleans, LA

PH. D. CANDIDATE IN ECOLOGY AND EVOLUTIONARY BIOLOGY

2018 - Present

- Committee members: Sunshine Van Bael, Ph.D. (adviser; dissertation chair), Kathleen Ferris, Ph.D. (co-advisor), Keith Clay, Ph.D., & P.Camilo Zalamea, Ph.D.

### University of Michigan, School for the Environment and Sustainability

Ann Arbor, MI

MASTER OF SCIENCE, NATURAL RESOURCES MANAGEMENT: CONSERVATION ECOLOGY,

2018

### University of Puerto Rico

San Juan, Puerto Rico

BACHELOR OF ARTS IN POLITICAL SCIENCE,

2014

- Area of concentration: Political Theory, Magna Cum Laude

## Peer Reviewed Publications

Aponte Rolon, B., & Perfecto, I. (2023). Between two trees: Environmental effects of *I. Micheliana* and *A. Latifolia* on leaf litter ants in a coffee agroecosystem. *Ecosphere*, 14(2), e4442. <https://doi.org/10.1002/ecs2.4442>

Schmitt, L., Aponte Rolon, B., & Perfecto, I. (2020). Evaluating community effects of a Keystone Ant, *Azteca sericeasur*, on *Inga micheliana* leaf litter decomposition in a shaded coffee agro-ecosystem. *Biotropica*, 52(6), 1253–1261. <https://doi.org/10.1111/btp.12833>

## Research Experience

### School for the Environment and Sustainability

University of Michigan, Ann Arbor, MI

MASTER'S THESIS

January 2016 - April 2018

- "Impacts of quality of leaf-litter on ant assemblages in shade-grown coffee in the Soconusco region in Chiapas, Mexico"
- PI, Ivette Perfecto, Ph. D.

### School for the Environment and Sustainability

University of Michigan, Ann Arbor, MI

GRADUATE STUDENT RESEARCH ASSISTANT

January 2016 - May 2016

- "Impacts of quality of leaf-litter on ant assemblages in shade-grown coffee in the Soconusco region in Chiapas, Mexico"
- PI, Ivette Perfecto, Ph. D.

### University of Puerto Rico

Analytical Chemistry Division,

Department of Chemistry, San Juan,

PR

UNDERGRADUATE RESEARCH ASSISTANT

January 2014 - May 2014

- PI, Liz Díaz, Ph. D.
- Conducted GC-MS and QuEChERS methods in development of an analytical methodology for the detection of Hypoglycin A in Ackee Fruit (*Blighia sapida*).
- Worked in the characterization of Ackee Fruit and applied the QuEChERS method to analyze analyte properties

### University of Puerto Rico

Center for Renewable Energy,

Department of Chemistry, San Juan,

PR

UNDERGRADUATE RESEARCH ASSISTANT

June 2013 - July 2013

- PI, Liz Díaz, Ph. D.
- Characterized and assessed marine algae as sources for biofuels, plastics, electrodes and bioindicators.
- Conducted a simultaneous assay of pigments, carbohydrates, proteins and lipids of *Tricleocarpa cylindrical*.

- PI, Federico Cintrón-Moscato, Ph. D.
- “Rapid Ethnographic Assessment in El Yunque: Understanding local visitors’ willingness and capacity to collaborate in the revision of EYNF’s Management Plan”

## Grants and Fellowships

### Department of Ecology and Evolutionary Biology

STUDENT RESEARCH GRANT

Tulane University, New Orleans, LA.

February - 2022

### Office of Graduate and Post-Doctoral Studies

OGPS FELLOWSHIP

Tulane University, New Orleans, LA.

November 2021 - May 2022

- Awarded \$3,000

### Department of Ecology and Evolutionary Biology

STUDENT RESEARCH GRANT

Tulane University, New Orleans, LA.

February - 2021

### Department of Ecology and Evolutionary Biology

STUDENT RESEARCH GRANT

Tulane University, New Orleans, LA.

February - 2020

### Rackham Graduate School

RACKHAM INTERNATIONAL RESEARCH AWARD

University of Michigan, Ann Arbor,  
MI.

April - 2017

- Awarded \$5,150

### Rackham Graduate School

RACKHAM CONFERENCE TRAVEL GRANT

University of Michigan, Ann Arbor,  
MI.

April - 2017

- Awarded \$ 1,050

### Rackham Graduate School

RACKHAM MASTER FELLOWSHIP

University of Michigan, Ann Arbor,  
MI.

April - 2015

## Awards & Honors

### The Connolly Alexander Institute for Data Science

SUMMER GRADUATE AWARD

Tulane University, New Orleans, LA

June 2023

- Awarded \$ 2,000

### Graduate Studies Student Association

TRAVEL AWARD

Tulane University, New Orleans, LA

May 2023

### School of Science and Engineering

DEAN’S TRAVEL AWARD

Tulane University, New Orleans, LA

May 2023

### Graduate Studies Student Association

TRAVEL AWARD

Tulane University, New Orleans, LA

May 2022

### School of Science and Engineering

DEAN’S TRAVEL AWARD

Tulane University, New Orleans, LA

April 2022

### School for the Environment and Sustainability

JEFFREY LUND FOREST ECOLOGY AWARD

University of Michigan, Ann Arbor, MI

April 2017

- Annual award for academic excellence, research capability and professional promise.

## Conference Presentations and Posters

**Aponte Rolón, B.** (2023 June). *Oral Presentation*: “Foliar fungal symbionts in sympatric yellow monkeyflowers along an elevational gradient”. Evolution 2023, Albuquerque, NM.

**Aponte Rolón, B.** (2023 March). *Poster*: “The Influence of host genotype and leaf trait plasticity on foliar fungal endophytes of yellow monkeyflowers in Yosemite National Park, CA”. Collaborators: Kathleen Ferris & Sunshine Van Bael. Tulane Research, Innovation, and Creativity Summit (TRICS), Jung Hotel Grand Hall, New Orleans, LA.

**Aponte Rolón, B.** (2022 July). *Oral Presentation*: “Interactions between functional leaf traits and foliar endophytes in the defense against natural enemies of tropical trees” (ID: 358). The 58th Meeting of the Association for Tropical Biology and Conservation (ATBC 2022), Cartagena de Indias, Colombia.

**Aponte Rolón, B.** (2022 May). *Poster*: “The Influence of host genotype and leaf trait plasticity on foliar fungal endophytes of yellow monkeyflowers in Yosemite National Park, CA”. Collaborators: Kathleen Ferris & Sunshine Van Bael. Yosemite Symbiosis Workshop. Wawona, CA, USA.

**Aponte Rolón, B.** (2020 July). *Graphical Abstract*: “Investigating trade-offs and complementarity between functional leaf traits and foliar endophytic fungi in the defense against plant enemies of tropical woody plants”. Collaborators: A. Elizabeth Arnold, and Sunshine Van Bael. The Mycological Society of America’s First Virtual Meeting, MSA 2020: Mycology from the Cloud (virtual).

**Aponte Rolón, B.** (2019 May). *Poster*: “Leaf and Root Endophytes of Mangroves in Southwestern Florida Everglades”. Collaborators: Mareli Sánchez Juliá, Edward Castañeda, John Kominoski, & Sunshine Van Bael. Florida Coastal Everglades LTER All Scientists Meeting. Fairchild Tropical Botanic Garden, Miami, Florida.

**Aponte Rolón, B.** (2017 October). *Poster*: “Quality of leaf-litter and ant assemblages in shade-grown coffee in Chiapas, Mexico”, Collaborator: Ivette Perfecto. Student Conference on Conservation Science-New York (SCCS-NY), American Museum of Natural History in New York City.

**Aponte Rolón, B.** (2017 July). *Poster*: “Impacts of quality of leaf-litter on ant assemblages in shade-grown coffee in Chiapas, Mexico”, Collaborator: Ivette Perfecto. 54th Annual Meeting of the Association for Tropical Biology and Conservation, “Ecological and Social Dimensions of Tropical Biodiversity Conservation”, Merida, Yucatan, Mexico.

**Aponte Rolón, B.** (2014 May). *Poster*: “El efecto del Curcumin en la señalización celular de Artritis Psoriática” [The Effect of Curcumin on cell signaling of Psoriatic Arthritis]. (With Carrero Feliciano, Heysel M.; Hall Laureano, Stephanie; Montes González, Ingrid, PhD.) Annual poster presentation of the American Chemical Society, Puerto Rico Chapter, University of Puerto Rico, Río Piedras Campus, San Juan, Puerto Rico.

## Seminars & Workshops

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**Delegate** (Aug. Sept. 2014): “*Encuentro latinoamericano y caribeño: asamblea intermedia*”. [Intermediate Assembly of the Consejo de Educación Popular de América Latina y el Caribe-CEAAL]. Quito, Ecuador.

**Delegate** (October 2013): “*Rumbo a la asamblea intermedia*”. Sponsored by the Consejo de Educación Popular de América Latina y el Caribe-CEAAL. Santo Domingo, Dominican Republic.

**Organizer** (August 2013): “*Primer Encuentro Nacional de Educadores(as) Populares de Puerto Rico*”. Sponsored by Consejo de Educación Popular de América Latina y el Caribe-CEAAL, Pontifical Catholic University of Puerto Rico, Ponce, Puerto Rico.

**Workshop** (August 2013): “*Educación Popular y Liberación Nacional*” [Workshop on Popular Education and National Liberation] Sponsored by La Nueva Escuela at Primer Encuentro Nacional de Educadores(as) Populares de Puerto Rico. Pontifical Catholic University of Puerto Rico, Ponce, Puerto Rico.

**Facilitator & organizer** (March 2012): “*Sexto Campamento de Jóvenes: Educando para una nueva Patria*” [Summit on Popular Education Critical Ideologies, Racism & Xenophobia]. La Nueva Escuela, Peñuelas, Puerto Rico.

**Organizer** (March 2012): “*Debates y perspectivas en la construcción de una reforma universitaria inclusiva*”. Sponsored by Honors Program Student Association (AEPREH), University of Puerto Rico, Río Piedras Campus. Social Sciences Faculty, University of Puerto Rico, Río Piedras Campus, San Juan Puerto Rico.

**Round table** (July 2012): “Puerto Rico: a brief historical account”. Second International Summit “*Entre las Crisis y Otros Mundos Posibles*” of the Transnational Network of Other Knowledges. Sponsored by Centro de Investigaciones y Estudios Superiores en Antropología Social (CIESAS), CIDECI Las Casas/ UNITIERRA-Chiapas, San Cristóbal de las Casas, Chiapas, México.

**Workshop** (September 2010): “*Taller de Educación Popular*” [Workshop on Popular Education]. La Nueva Escuela at The University of Puerto Rico, Río Piedras Campus, San Juan, Puerto Rico.

**Workshop** (May 2010): “*Taller de Educación Popular y el Movimiento Estudiantil*” [Workshop on Popular Education and the Student Movement]. La Nueva Escuela at The University of Puerto Rico, Río Piedras Campus, San Juan, Puerto Rico.

# Teaching Experience

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## Teaching Assistant

### Tulane University: 2018-Present

- Spring 2023 | **Natural History of Louisiana - EBIO 2330**. Dr. Donata Henry, Department of Ecology and Evolutionary Biology.
- Spring 2023 | **Theory and Methods in Ecology and Evolutionary Biology - EBIO 2020**. Dr. Donata Henry, Department of Ecology and Evolutionary Biology.
- Fall 2022 | **Entomology Lab – EBIO 4430/4431**. Dr. Dorothy Cheruiyot, Department of Ecology and Evolutionary Biology.
- Spring 2022 | **Insects and Human Interactions – EBIO 2210**. Dr. Dorothy Cheruiyot, Department of Ecology and Evolutionary Biology.
- Spring 2021 | **Plants and Human Affairs with lab – EBIO 3180/3185**. Dr. Keith Clay, Department of Ecology and Evolutionary Biology.
- Fall 2020 | **Entomology – EBIO 4430/4431**. Dr. Dorothy Cheruiyot, Department of Ecology and Evolutionary Biology.
- Spring 2020 | **Plant Biology and Adaptation with lab - EBIO 3590/3591**. Dr. Dorothy Cheruiyot, Department of Ecology and Evolutionary Biology.
- Spring 2019 | **Entomology Lab – EBIO 4430/4431**. Dr. Dorothy Cheruiyot, Department of Ecology and Evolutionary Biology.
- Fall 2018 | **Diversity of Life - EBIO 1010**. Dr. Donata Henry, Department of Ecology and Evolutionary Biology.

### Guest Lectures

- Fall 2021 | **Tropical Biology – EBIO 2110**, Dr. Renata Durães Ribeiro, Department of Ecology and Evolutionary Biology.
- Fall 2021 | **Entomology – EBIO 4430/4431**. Dr. Dorothy Cheruiyot, Department of Ecology and Evolutionary Biology.
- Fall 2019 | **Plants and Human Affairs – EBIO 3180/3185**. Dr. Dorothy Cheruiyot, Department of Ecology and Evolutionary Biology.

### University of Michigan: 2016 - 2017

- Fall 2017 | **NRE 509: Ecology: Concepts and Applications**. Dr. Sheila K. Schueller, School for the Environment and Sustainability.

- Fall 2016 | **ENVIRON 270: Our Common Future.** Dr. Ivette Perfecto, Program in The Environment, College of Literature, Science and the Arts.

## Packages

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