

Bolívar Aponte Rolón

PH.D. CANDIDATE

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Community ecologist | Bioinformatician | Curiosity driven

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 Rolón, 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 Rolón, 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

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

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
