

# Felix “Javi” Berrios Ortega

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## **EDUCATION**

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University of Puerto Rico – Humacao (UPRH)

Bachelor of Science, **Wildlife Management** (exp. May 2024)

**GPA:** 3.53

**Relevant Coursework:** Biometry, Philosophy of Science, Herpetology, Botany, Zoology, Population Ecology, Computational Methods for Biological Systems, Plant Taxonomy, Vertebrate Biology, Data Visualization, Organic Chemistry, Physics

**Research Interest:** Evolution, Computational Methods, Community Ecology, Ecophysiology.

## **RESEARCH SKILLS**

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**General:** Fluent in English and Spanish, Public Speaking, Communication, Microsoft Office, Highly Organized, Teamwork, Project Management

**Data and Software:** R Statistical Software, Insight Maker, Basic ArcGIS, BORIS, ZIMS, ZooMonitor, Data visualization with R, SPSS

**Wet Lab/Fieldwork:** Infrared spectroscopy, Chromatography (Gas, TLC, Column), Crystallization, Distillation, Flow, Aquatic Invertebrate Care, Dichotomous key identification

## **RESEARCH EXPERIENCES**

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**University of Iowa – REU in Interdisciplinary Evolutionary Sciences (May 2023 – August 2023)**

Mentor: Dr. Maurine Neiman

Project: “Evaluating the Interaction Between Heat Stress Expected Under Climate Change and Nutrient Limitation in a Freshwater Snail”

- Created a protocol and designed a study to test a combination of both temperature stress and Phosphorus limitation on *Potamopyrgus antipodarum*.
- Performed weekly measurements to assess growth and cared for 500 snails.
- Received training in techniques such as Flow cytometry, DNA extractions, PCR, and other wet lab techniques.

**Zoo Miami – FIU REU in Conservation Science (May 2022 – August 2022)**

Mentors: Dr. Molly McGuire, Dr. Jennifer Vonk and Taylor Crews

Project: “Human Voice Recognition by Exotic Cats in Human Care”

- Coordinated data collection with various teams at the zoo.
- Recorded and coded multiple videos using BORIS analyzing for a variety of behavioral responses from the exotic cats at the zoo.
- Assisted the Animal Welfare team in a variety of behavioral projects with a range of species.

**University of California Santa Cruz Doris Duke Conservation Scholar’s Field Course (June 2021 – August 2021)**

Final Project: “The Effects of Disturbance on Streambank Plant Communities”

- Participated in a fully immersive field course traveling through various natural reserves in California.
- Engaged in various collaborative research projects through the summer focusing on ecology and conservation.
- Participated in multiple workshops focused on statistics, leadership, and communication.

**Undergraduate Researcher Assistant (January 2021 – August 2021)**

Advisor: Dr. Denny Fernandez, UPRH

- Used the Forest Inventory and Analysis database to compare and analyze data on 2 species of trees (*Spathodea campanulata* and *Guarea guidonea*)
- Used the R programming language to clean up and analyze the data, and performed statistical analysis to calculate and compare the importance value.

## **LEADERSHIP, OUTREACH & SCIENCE COMMUNICATION**

### **500 Queer Scientists Intern (September 2022 – Present)**

- Assisted on the management of the social media platforms for 500 Queer Scientists.
- Managed and curated the profile submission spreadsheets.
- Worked with the organization to achieve our goal of providing role models for LGBTQ identifying scientists.

### **UNIDE Student Advisory Board (April 2022 – Present)**

- Participated in the NSF-funded project UNIDE (Undergraduate Network for Increasing Diversity of Ecologists).
- Participated and conducted meetings to discuss and provide feedback for the UNIDE Steering Committee.
- Worked with the UNIDE Steering Committee to improve the recruitment and retention of underrepresented students in ecological and environmental sciences.
- Managed the SAB's social media accounts.

### **Founding President (December 2020 – Present)**

#### **SACNAS UPRH Chapter**

- Started a SACNAS chapter in UPRH with a team of students.
- Hosted virtual personal and professional development activities for all the university community during the Covid-19 pandemic.
- Managed a team of fellow students to efficiently plan and execute activities.

### **Founder of LGBTQ+ STEM Cast (March 2020 – December 2021)**

<http://anchor.fm/lgbtqstemcast>

- Created a podcast to highlight the diversity in the sciences by providing a platform for LGBTQ+ scientists.
- Interviewed scientists from different STEM fields and edited episodes using garage band.
- Published and promoted episodes via Instagram and Twitter, growing a following of over 9,000 people.

### **Mentor (Summer 2020, Summer 2021)**

#### **Proud (HHMI Sponsored) Pre-Semester Bootcamp, UPRH**

- Mentored a group of 10 incoming freshmen about the transition to university and online courses.
- Guided students on their scheduling choices and oriented them on maintaining a work-life balance.

## **AWARDS & SCHOLARSHIPS**

**2023** Purdue University Graduate Diversity Visitation Program

**2023** University of Puerto Rico, "Fondo Dotal Scholarship" - \$1,300

**2023** SEEDS Participation Award – National Field Trip

**2022** Princeton University EEB Scholar

**2022** Princeton University Prospective PhD Preview Program Participation Award

**2022** SACNAS Chapter Officer Leadership October Retreat Participation Award

**2022** Envision EEB at Michigan State Participation Award

**2022** University of Puerto Rico, "Fondo Dotal Scholarship" - \$1,000

**2022** ESA Regional Fieldtrip Participation Award

**2022** USDA Puerto Rico Natural Resources Career Tracks (PRNCT)

**2021** Reclaiming STEM Participation Award

**2021** SACNAS Conference Registration Scholarship

**2021** SEEDS Participation Award – ESA Conference

**2021** University of California Santa Cruz Doris Duke Conservation Scholar

**2020** Undergraduate Research Program of the Puerto Rico Louis Stokes Alliance for Minority Participation (PR-LSAMP)

**2020** University of Puerto Rico, "Fondo Dotal Scholarship" - \$1,650

**2020** University of Puerto Rico, "PSES Merit Scholarship" - \$850

**2020 NSPN (National Science Policy Network) Personal Development Grant - \$200**

### **Presentations**

Summer Undergraduate Research Conference, University of Iowa, July 26, 2023, Poster Presentation  
“Evaluating the Interaction Between Heat Stress Expected Under Climate Change and Nutrient Limitation in a Freshwater Snail”

Life Discovery Conference, March 25, 2023, Oral Presentation, “Making ecology more inclusive: Student Perspectives”

National Diversity in STEM SACNAS Conference, October 28, 2022, Poster Presentation “Human Voice Recognition by Exotic Cats in Human Care”

Princeton University EEB Scholars Poster Session, October 7, 2022, Poster Presentation “Human Voice Recognition by Exotic Cats in Human Care”

Zoo Miami Research Experience for Undergraduates Symposium, July 29, 2022, Oral Presentation  
“Human Voice Recognition by Exotic Cats in Human Care”

6<sup>th</sup> Doris Duke Conservation Scholars Program Annual Research Symposium, August 2, 2021, Oral Presentation “The Effects of Disturbance on Streambank Plant Communities”

39th Puerto Rico Interdisciplinary Scientific Meeting (PRISM), March 24, 2021, Virtual, Oral Presentation “Using the Forest Inventory and Analysis database to analyze and compare *Spathodea campanulata* and *Guarea guidonea*”

### **WORKSHOPS**

**July 2022** – Science Coding Immersion Program for BIPoc students in Ecology and Evolutionary Biology at San Francisco State University

### **References**

#### **Dr. Denny Fernandez Del Viso**

Professor – University of Puerto Rico – Humacao

[Gamezdenny.fernandez@upr.edu](mailto:Gamezdenny.fernandez@upr.edu)

#### **Dr. Erika Zavaleta**

Professor – University of California Santa Cruz

Doris Duke Conservation Scholars Program Founder

[zavaleta@ucsc.edu](mailto:zavaleta@ucsc.edu)

#### **Dr. Steven Whitfield**

Conservation Scientist – REU Program Director Zoo Miami

[Steven.Whitfield@miamidade.gov](mailto:Steven.Whitfield@miamidade.gov)

#### **Dr. Maurine Neiman**

Professor – University of Iowa

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