

**Edauri Navarro Pérez**

School of Life Sciences  
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**Education**

Aug 2018- Present: Arizona State University

PhD student in Environmental Life Sciences (GPA: 3.78)

Aug 2013- May 2018: University of Puerto Rico, Río Piedras Campus (UPR-RP) - (GPA: 3.56)

Including studying at New Mexico State University

Environmental Science: Jan-May 2015 (GPA: 4.00)

**Professional appointments**

Aug-Dec 2021: Teacher Assistant of BIO 282, School of Life Sciences, Arizona State University

- ✓ Teach and guide lab activities about cellular organs, functions and activities
- ✓ Grade weekly assignments, papers and presentations
- ✓ Assisted student with technical and class related problems

July 2020: Online Teacher Assistant of BIO 182, School of Life Sciences, Arizona State University

- ✓ Talk to the students and clarify questions about the class material
- ✓ Grade their weekly assignments papers and presentations
- ✓ Create assignments for extra credit

Jan-May 2020: Teacher Assistant of BIO 282, School of Life Sciences, Arizona State University

- ✓ Teach and guide lab activities about cellular organs, functions and activities
- ✓ Grade weekly assignments, papers and presentations
- ✓ Assisted student with technical and class related problems during COVID

Aug-Dec 2019: Teacher Assistant of BIO 182, School of Life Sciences, Arizona State University

- ✓ Teach and guide lab activities about the scientific method, biodiversity, evolution, physiology, and ecology
- ✓ Grade weekly assignments, papers and presentations
- ✓ Guide the students to an fieldtrip to “A mountain” to conduct field research about taxonomy and quantity of plant species and ecology of the Southwest

Aug 2017-Jun 2018: Field Assistant at the Eco-Lab, Center of Applied Ecology, UPR-RP

- ✓ Performed statistical analysis with excel, Past3, JMP and R studio
- ✓ Lab manager assistant; collected water sampling in an urban wetland, sample processing of pH, water conductivity and leaf area
- ✓ Assisted communities affected by Hurricane Maria with food and medicine delivery

Jul 2017: Undergraduate Researcher at the REU, Polaris Project of Woodwell Research Center, Yukon Kuskokwim Delta, Alaska. Research title: *The effects of fire on greenhouse gas fluxes from mosses and lichen patches in the Yukon Kuskokwim Delta, AK.*

- ✓ Performed soil analysis: C:N potential, mineralization, moisture, temperature, anaerobic and aerobic incubations
- ✓ Recorded gas flux measurements with Los Gatos Research Ultraportable Greenhouse Gas Analyzer
- ✓ Presented research in Woodwell Research Center and AGU conference

Aug 2016-May 2017: Research at El Verde Field Station, Luquillo Long Term Ecological Research, Río Grande, Puerto Rico. Research title: *Drought effects on the soil's nitrogen cycle (denitrification) of El Yunque National Rainforest, Puerto Rico.*

- ✓ Collecting soil and their analysis: DEA and KCl extractions
- ✓ Moisture and temperature measurements
- ✓ Oral and written presentations

## **Edauri Navarro Pérez**

Jun-Aug 2016: Undergraduate Researcher at the REU of the Organization of Tropical Studies (OTS), La Selva, Costa Rica. Research title: *Local preference encoded by complex signaling mechanisms of mate preference in the red-eyed treefrog (Agalychnis callidryas)*

- ✓ Collecting frogs for research of behavioural ecology at night
- ✓ Interpretation of the sexual behaviour of the red-eyed treefrog

May-June 2015: Research assistant at Ecology Internship, Río Bravo Reserve, Belize. Research title: *The ancient Maya and the modern forest*

- ✓ Map archaeological sites and trees species related to these sites . Moreover, identify and measure tree's diameter, recruitment and mortality.

Jan-May 2015: Research assistant at NMSU, New Mexico. Research title: *Anti-bacterial and anti-fungal properties of allelopathic chemicals*

- ✓ Management of the spectrophotometer, algae and bacterial cultures
- ✓ Production of allelopathic chemicals
- ✓ Poster presentation in a conference

Jun-Jul 2014: Biological science technician intern at US Forest Service El Yunque, Puerto Rico

- ✓ Surveyed community members about El Yunque Management plan
- ✓ Measure water quality, assisted in field work and in the reconstruction of a greenhouse
- ✓ Assist in ecological literature and inspection of El Yunque Management Plan
- ✓ Assisted with petroglyph documentation
- ✓ Assisted in Electrofishing

### **Outreach**

Aug 2020-present: Científico Latino Mentor

- ✓ Provided mentorship to students in their graduate studies application process by having bimonthly meetings checking the student progress and giving written feedback in their personal statements.

Sep-Oct 2020: Polaris GRFP mentor

- ✓ Provided mentorship to graduate and undergraduate students in their GRFP application process by having weekly meetings checking the student progress, helping the development of research questions and methods and giving written feedback in their personal and research statements.

May-Jun 2020: SoLS Grad Innovators, Arizona State University

- ✓ Provided educational talks to undergraduate and graduate students about how to apply to grad school. I gave talks to the Polaris Group from Woodwell Research Center and Natural Resources Careers Tracks from UPR-RP.

Aug 2018-present: Outreach at Drylands Lab, Arizona State University

- ✓ Hosted educational booth focus on soil biology, geology and chemistry to different schools and University events

Feb-May 2016: Undergraduate coordinator for environmental and educational experiences at “El Huerto de Capetillo” and CAUCE:

- ✓ Creating educational activities about environmental topics such as talks about the importance of mangroves and the Eco-Olympics for the surrounded communities

Aug-Dec 2014: Outreach at Natural Resources Career Tracks, UPR-RP, Puerto Rico

Presented varies topics (e.g., climate change, pollution, biodiversity and deforestation) to different schools (elementary, special education, up to high school)

### **Volunteer**

2014-2017: Sierra Club, San Juan, PR

- ✓ Participated in events like cleaning beaches around the island, annual meetings and collecting trash for recyclable purposes with their Campaign “Basura Cero”

2013-2018: AKKA SEEDS (Ecology Chapter), UPR-RP, PR

## Edauri Navarro Pérez

- ✓ President (2016-2017): Assisted, planned and directed ecological activities like research field trips, workshops about seed booms and collaborated with sustainable stores in the university area for talks about soil ecology
- 2013-2018: Para la Naturaleza, PR
  - ✓ Volunteer in their Río Piedras greenhouse for plant maintenance, interact and guide general public (20 people/hour) for the annual festival and assisted to educational talks about restored natural areas in PR
- 2013-2014: Eco-Environmental Society, UPR-RP, PR
  - ✓ Participated in talks about sustainability and ecological field trips
- 2010-2015: SCUBA Dogs Society, PR
  - ✓ Directed and plan two cleaning-up beaches events and assisted and guided the general public in the educational booths.

### Publications

- Robinson, J. M., Redvers, N., Camargo, A., Bosch, C. A., Breed, M. F., Brenner, L. A., Carney, M.A., Chauhan, A., Dasari, M., Dietz, L.G., Friedman, M., Grieneisen, L., Hoisington, A.J., Horve, P.F., Hunter, A., Jech, S., Jorgensen, A., Lowry, C.A., Man, I., Mhuireach, G., **Navarro-Pérez, E.**, Ritchie, E.G., Steward, J.D., Watkins, H., Weinstein, P., & Ishaq, S. L. (2022). Twenty Important Research Questions in Microbial Exposure and Social Equity. *Msystems*, 7(1), e01240-21.
- Oyebamiji, O. O., Corcoran, A. A., **Pérez, E. N.**, Ilori, M. O., Amund, O. O., Holguin, F. O., & Boeing, W. J. (2021). Lead tolerance and bioremoval by four strains of green algae from Nigerian fishponds. *Algal Research*, 58, 102403.
- Kaiser, K., Boehlke, C., **Navarro-Pérez, E.**, Vega, A., Dudgeon, S., & Robertson, J. M. (2018). Local preference encoded by complex signaling: mechanisms of mate preference in the red-eyed treefrog (*Agalychnis callidryas*). *Behavioral Ecology and Sociobiology*, 72(12), 182.

### Honors, distinctions, and awards

- 2021: Biogeosciences section student travel award for the Ecological Society of America, Online
- 2020-2021: The College Graduate Excellence Award, Arizona State University
  - ✓ Award given to ASU graduate students that have being honored monetary awards nationally and internationally
- 2021: Ecological Society of America Forrest Shreve Award
  - ✓ The Forrest Shreve Award supports research in the hot deserts of North America: Sonoran, Mojave, Chihuahuan, and Vizcaino. Projects should be clearly ecological and should increase our understanding of the patterns and processes of deserts and/or desert organisms.
- 2019-2020: The College Graduate Excellence Award, Arizona State University
  - ✓ Award given to ASU graduate students that have being honored monetary awards nationally and internationally
- 2019: ASU-GRFP Distinguished advisor, Arizona State University
  - ✓ Distinction to graduated students that advised and provided feedback to other students applying for the GRFP-NSF
- 2018-2023: NSF Graduate Research Fellowship Program
  - ✓ Three year fellowship that recognizes and supports outstanding graduate students in NSF-supported STEM disciplines who are pursuing research-based master's and doctoral degrees at accredited US institutions
- 2018: Travel award for National Conference for College Women Student Leaders, AAUW
- 2017: Elizabeth Sulzman Travel award for American Geophysical Union at New Orleans
- 2017: Multicultural Program Travel Award for ASLO Conference at Hawaii
- 2013-2017: Environmental Scholarship at Puerto Rico's Community Foundations and Toyota, PR

## **Edauri Navarro Pérez**

- ✓ Five years award that recognized Puerto Rican undergraduate students that pursue studies related to the environment science, arts and conservation

2016: Travel Award at Society for Advancement of Chicanos/Hispanics and Native Americans in Science Conference at California, U.S.A.

2015: SEEDS Travel Award for Ecological Society of America conference at Baltimore, U.S.A

2014-2015: Environmental Scholarship at Fundación Fonalledas, PR

- ✓ One year award that recognized Puerto Rican undergraduate students that pursue studies related to the environment science and conservation

### **Workshops attendance**

2020: Socio-Environmental Synthesis Center, Maryland

- ✓ Graduate Leaders Workshop that involved the discussion and creation of transdisciplinary research

2014 & 2015: Ecological Society of America

- ✓ SEEDS National Field Trip

2014: National Hispanic Environmental Council Institute

- ✓ Ecology workshop that include soil and water quality testing and collection of macroinvertebrates

2013-2015: USDA- FS, Natural Resource Career Track Program

- ✓ Resumé Workshops
- ✓ Field trips for research engaging such as El Yunque National Forest and Culebra for Coral
- ✓ Creating to a sustainable farm markets in the Faculty of Natural Sciences, UPR-RP

### **Conferences presentation**

#### Sessions Co-creator

2021: Leader of the Session: Not just checking a box: Inclusive communication as a way to transform scientific frameworks at the Coastal & Estuarine Research Federation 2021 conference, Online

#### Talks given

2020: Leader of the Coffee Chat: Why talking about privilege is important in Natural Sciences-BioSci Southwest at Arizona State University

2020: Panel participant: Representation in the field: How to bust assumptions about who does conservation biology and make training more inclusive for People of Color - RISE Up for Racial Justice in SoLS at Arizona State University

2020: Panel participant: Student Activism and Social Change -Local to Global Justice Forum and Festival: Climates of Justice at Arizona State University, Arizona.

#### Poster presentations

2021: Estimation of root traits using 3D and 2D photogrammetric computational models at the Ecological Society of America, Online

2017: The effects of fire on greenhouse gas fluxes from mosses and lichen patches in the Yukon Kuskokwim Delta, AK- American Geophysical Union at New Orleans

2017: What makes you beautiful? Mate selection mechanisms of female red-eyed treefrogs- Ecological Society of America 2017 conference at Portland, Oregon

2017: Anti-Bacterial and Anti-Fungal Properties of Allelopathic Chemicals- ASLO Conference at Hawaii

2016: Anti-Bacterial and Anti-Fungal Properties of Allelopathic Chemicals -Forward Summit Research and Innovation Conference, San Juan, Puerto Rico

2015: Anti-Bacterial and Anti-Fungal Properties of Allelopathic Chemicals -Science and Arts Research at New Mexico, U.S.A

#### Professional affiliations

2020-present: American Association of Hispanics in Higher Education (AAHHE), U.S.A

2018-2020: Latin Student Graduate Association at Arizona State University, Arizona, U.S.A.

## **Edauri Navarro Pérez**

2018-present: Graduate Women Association at Arizona State University, Arizona, U.S.A.

2017: Association for the Sciences of Limnology and Oceanography (ASLO)

2016: Society for Advancement of Chicanos/Hispanics and Native Americans in Science

2014-present : Ecological Society of America

### **References**

Heather Throop

Associate Professor | School of Earth & Space Exploration

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Arizona State University

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Susan M. Natali

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