

## Curriculum Vitae

### 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

May-Aug 2022: Research Assistant of Immersive, interdisciplinary, and identity-based team science experience (IIITSE), of Earth Systems Science for the Anthropocene (ESSA), Arizona State University

- ✓ Worked in team science from multiple fields in the creation of a story map
- ✓ Worked on qualitative research and coding on Dedoose
- ✓ Worked on a literature review about indigenous communities from AZ and their land engagement
- ✓ Presented research findings in classes, conferences, and meetings

Jan-May 2022: Teacher Assistant for BIO 201, School of Life Sciences, Arizona State University

- ✓ Taught and guided lab activities about human anatomy: blood, veins, systems and more
- ✓ Created and grade weekly assignments, papers, presentations, and lab exams
- ✓ Worked with human cadavers
- ✓ Assisted student with technical and class related problems

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

- ✓ Taught and guide lab activities about cellular organs, functions, and activities
- ✓ Graded 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

- ✓ Talked to the students and clarify questions about the class material
- ✓ Graded their weekly assignments papers and presentations
- ✓ Created assignments for extra credit

June 2020: Innovation award- assistant, School of Life Sciences, Arizona State University

- ✓ Create a plan where I could focus on aiding Puerto Rican Students applying to graduate school
- ✓ Contact organizations in Puerto Rico to ask and develop plans for undergraduate students' assistance
- ✓ Provide presentations and workshops to undergraduate students on how to apply to graduate school

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

- ✓ Taught and guide lab activities about cellular organs, functions, and activities
- ✓ Graded 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

- ✓ Taught and guide lab activities about the scientific method, biodiversity, evolution, physiology, and ecology
- ✓ Graded weekly assignments, papers, and presentations
- ✓ Guided the students to a 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, 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 American Geophysical Union 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.*

- ✓ Collected soil and their analysis: Potassium chloride extractions
- ✓ Measured moisture and temperature in soil
- ✓ Oral and written presentations

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)*

- ✓ Collected frogs for research of behavioral ecology at night
- ✓ Interpretated of the sexual behavior of the red-eyed treefrog
- ✓ Oral and written presentations

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

- ✓ Mapped 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*

- ✓ Managed a spectrophotometer, algae, and bacterial cultures
- ✓ Produced and measured 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
- ✓ Measured water quality, assisted in field work and in the reconstruction of a greenhouse
- ✓ Assisted in ecological literature and inspection of El Yunque Management Plan
- ✓ Assisted with petroglyph documentation and electrofishing

## Outreach

April 2022-April 2023: Voices for Science, American Geophysical Union

- ✓ Went to workshops to learn about science policy and scientific communication, assist monthly meetings to check in and create an event to for scientific outreach/ communication with the local community.
- ✓ Co-develop with community members a scientific and artistic Black, Brown, and Indigenous open mic highlighting everybody experiences and relationship with nature and land.

Aug- Oct 2022: ASU GRFP mentors

- ✓ Provide mentorship on ASU undergraduates about the GRFP fellowship
- ✓ Provided research and persona statement feedback on GRFP applications packages

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 booths focused on soil biology, geology and chemistry to different schools and ASU events

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

- ✓ Created 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

- ✓ 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 beach clean-up events

### Publications

- 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.
- 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.
- 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.

### Honors, distinctions, and awards

2022: John Schade Fellow, Polaris Project, Woodwell Climate Research Center

- ✓ This fellowship is established to honor Dr. Schade's unwavering dedication to mentoring young scientists and recognizes two students per year who are pursuing higher education and reflect Dr. Schade's values of mentoring, education, leadership, equity in the sciences, and advancing Arctic and environmental science to mitigate climate change.

2022: Outstanding Mentoring Award, Graduate & Professional Student Association, Arizona State University

- ✓ This award recognizes graduate and professional students who demonstrate excellence in mentorship.

2021: Biogeosciences Section student travel award for the Ecological Society of America, Online meeting

2020-2021: The College Graduate Excellence Award, Arizona State University

- ✓ Award given to ASU graduate students with monetary awards for national or international institutions

2021: Ecological Society of America Forrest Shreve Award

- ✓ The Forrest Shreve Award supports research in the hot deserts of North America: Sonora, Mojave, Chihuahua, and Vizcaino. This award is for projects that clearly have an ecological focus and 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 with monetary awards for national or international institutions

2019: ASU-GRFP Distinguished advisor, Arizona State University

- ✓ Distinction to ASU graduated students that advised and provided feedback to other students applying for the Graduate Research Fellowship Program

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, American Association of University Women (AAUW)
- 2017: Elizabeth Sulzman Travel award for American Geophysical Union (AGU) in New Orleans
- 2017: Multicultural Program Travel Award for Association for the Science of Limnology and Oceanography (ASLO) Conference at Hawaii
- 2013-2017: Environmental Scholarship at Puerto Rico's Community Foundations and Toyota, PR
- ✓ 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 meeting 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

### **Services to University**

- April 2022-present: Presidential Postdoctoral Positions in Indigenous Knowledge Systems, Postdoc Search Committee, SoLS, ASU, Tempe, AZ
- Aug 2020: Postdoc Search Committee, Drylands Ecosystem Research Team, ASU, Tempe, AZ

### **Service to Scientific communities**

- 2022: Reviewer of a paper, Natural Sciences Education, Wiley

### **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
- ✓ Strategies for Ecology, Education, Diversity and Sustainability (SEEDS) National Field Trip
- 2014: National Hispanic Environmental Council Institute
- ✓ Ecology workshop that included soil and water quality testing and collection of macroinvertebrates
- 2013-2015: USDA- FS, Natural Resource Career Track Program
- ✓ Resumé Workshops
  - ✓ Field trips to engage in research
  - ✓ Helping maintain a garden in the Faculty of Natural Sciences, UPR-RP

### **Conferences and meetings**

#### Sessions Co-creator

- Heffner, L., **Navarro-Pérez, E.** & Peter, D. L. (2021, November). Not just checking a box: Inclusive communication as a way to transform scientific frameworks in the *Coastal & Estuarine Research Federation 2021 conference*

#### Talks given

- Navarro-Pérez, E.** (2022, December). Living in Kinship: Establishing our connection with the land, Voices for Science in *AGU Fall meeting*

- Navarro-Pérez, E.** (2022, December) Las raíces como maestras de éxitos, fracasos e interseccionalidad en escuela graduada in *Congreso-Arte-Suelo\_Ser.*
- Navarro-Pérez, E.** (2020, August). Why talking about privilege is important in Natural Sciences? in *BioSci Southwest at Arizona State University*
- Clark, M., Bernard, M., **Navarro-Pérez, E.** (2020, April). Representation in the field: How to bust assumptions about who does conservation biology and make training more inclusive for People of Color in *RISE Up for Racial Justice in SoLS at Arizona State University*
- Rivera-Matos, Y., **Navarro-Pérez, E.**, Mera-Rodríguez, D., Salazar, S., Terminel, A., Ruiz, V., Echevarria, A. (2020, February). Student Activism and Social Change in *Local to Global Justice Forum and Festival: Climates of Justice at Arizona State University.*

#### Poster presentations

- Morales-Guerrero, J., **Navarro-Pérez, E.**, Hale, M., Clark, M., Caughman, L., Soto, A., & Grimm, N. (2023, February). Acknowledging History to Inform Just Practices: Analysis of Historical Engagement and Land Values in the Gila and Salt Rivers in *American Indian Studies Association Conference*
- Morales-Guerrero, J., **Navarro-Pérez, E.**, Hale, M., Clark, M., Caughman, L., Soto, A., & Grimm, N. (2023, January). Acknowledging History to Inform Just Practices: Analysis of Historical Engagement and Land Values in the Gila and Salt Rivers in *Central Arizona-Phoenix LTER meeting.*
- Navarro-Pérez, E.**, Das, J., Cueva, A., & Throop, H. (2021, August) Estimation of root traits using 3D and 2D photogrammetric computational models in *Ecological Society of America Annual meeting.*
- Navarro-Pérez, E.**, Natali, S., Schade, J. D., Holmes, R. M., & Mann, P. J. (2017, December). The effects of fire on greenhouse gas fluxes from mosses and lichen patches in the Yukon Kuskokwim Delta, AK. In *AGU Fall Meeting Abstracts* (Vol. 2017, pp. B41I-2095).
- Navarro-Pérez, E.**, Boehlke, C., Kaiser, K., Vega, A., Dudgeon, S., & Robertson, J. M. (2017, August). What makes you beautiful? Mate selection mechanisms of female red-eyed treefrogs in *Ecological Society of America Annual meeting.*
- Pérez, E. N.**, Oyebamiji, O. O., Holguin, F. O., & Boeing, W. J. (2017, April). Anti-Bacterial and Anti-Fungal Properties of Allelopathic Chemicals in *ASLO Conference*
- Pérez, E. N.**, Oyebamiji, O. O., Holguin, F. O., & Boeing, W. J. (2016, August). Anti-Bacterial and Anti-Fungal Properties of Allelopathic Chemicals in *Forward Summit Research and Innovation Conference*
- Pérez, E. N.**, Oyebamiji, O. O., Holguin, F. O., & Boeing, W. J. (2015, May). Anti-Bacterial and Anti-Fungal Properties of Allelopathic Chemicals in *Science and Arts Research at New Mexico State University*

#### 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.
- 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

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