Coral del Mar Valle Rodríguez

787-517-7904| cv273@cornell.edu
700 Warren Rd Apt 24-1E, Ithaca, NY, 14850 |
http://www.linkedin.com/in/coraldelmarvalle | X: @CoraldelMarVR

Education

Present PhD Student at Cornell University

- ❖ Department of Ecology and Evolutionary Biology
- ❖ Biosphere Modeling and Monitoring Lab

2016-2022 B.A. in Hispanic Literature and Environmental Studies

- ❖ Minor concentration: Anthropology
- ❖ Honor roll, **GPA: 3.73**

Core Classes completed: Environmental Conservation: Resource Management, Marine Geology, Advanced Oceanography: Physics of Oceans, Field Ecology of NYC, Ecology of Global Change, Environmental Hazards, Energy Policy, Earth System Science I & II, Statistics

Internships and Professional Development

2022-2023 Solar One: Resilient Solar Associate

- Organized partner meetings with solar installers and city planners.
- Assessed the feasibility of solar in public buildings as a response to hurricane Sandy.

2022 NASA DEVELOP Program

- Current position, working on a project focused on Evaluation of the Effects of Urban Expansion on Social and Environmental Vulnerability in Central America.
- Will be using LANDSAT Imagery, Google Earth Engine via the LandTrendr algorithm to map the magnitude of urban expansion and its relation to social and ecological inequalities, focusing on the spatial relationship between impoverished communities and areas vulnerable to natural disasters including floods, landslides, and earthquakes.

2022 Research Assistant at Reinmann Lab at the CUNY Graduate Center

- Current position, expected to assist with quality control and analyses of carbon and nitrogen cycling data (NIST).
- Use R and QC'ing data techniques to organize and manage data on these datasets include CO2 fluxes from grassland and lawn ecosystems and possibly photosynthesis.

2022 Street Tree NYC Monitoring Fellow

- Collaborated on a project with a research team Successful candidates will join a research team with the USDA Forest Service, the University of Connecticut, Rutgers, the City University of New York (CUNY), and The Nature Conservancy.

- Received training in the science of urban tree health, demography, and its implications at the social and ecological scale.
- Collected data on tree health and mortality.
- Compared data in urban parks.

2022 Solar One: Barrio Solar Outreach Intern

- Learned about solar energy technology, system design, economics, policy, installation, and workforce.
- Provided information for lower to moderate income homeowners in Brooklyn about feasibility of installing solar in their homes and potential incentives.
- Designed and estimated the feasibility of solar panels in different homes throughout NYC.

2021 Harvard Forest Summer Research: Harvard Forest Long Term Ecological Research

- Estimated the effects of Hemlock Woolly Adelgid, Emerald Ash Borer, and Asian Long-horned beetle on aboveground carbon towards 2050 in Massachusetts on a project titled *Estimating the Risk to Forest Carbon due to Invasive Forest Insects.*
- Used R, ArcMap, and LANDIS-II forest succession model to produce concrete results to present at a national symposium.

2021 Lab Assistant at Reinmann Lab at the CUNY Graduate Center

- Quantified the amount of conifer and deciduous trees to measure the impact of Hemlock Woolly Adelgid in specific areas in the Adirondack and Catskill forests using recollected data and data manipulation techniques.
- Quantified the amount of deciduous and conifer trees in the northern New York region with the Google Earth Engine to measure the canopy cover.

2019 Operations Intern at Rescuing Leftover Cuisine

- Worked for a nonprofit in the mitigation of food waste and city sustainability by providing to homeless shelters excess food on catering companies.
- Contributed to the overall organization of the inner workings of the nonprofit.
- Contributed on the schematics of the pick-up and deliveries of food throughout the homeless shelters in NYC.

2019-present Teacher, Saint Joan of Arc Church

- Aided and taught on various topics including Religion, Math, and Spanish on an individual level.
- Managed students on an individual level as well as groups ranging from 20-30 students.

2020-2021 Young Voices of Science Program

- Within this program hosted by Hubbard Brook Research Foundation, learned about science communication strategies for the non-science public.
- Actively participated in a seven-part workshop program focused on environmental outreach and public engagement practices for nonscience peoples such as students, policymakers, and the general population.
- Lectured on the effect, ecology, and mitigation strategies surrounding the invasive lionfish in the North Atlantic and Caribbean.

2021 YPE NYC Mentee

- As One of twelve mentees selected for a mentorship program, focused on the energy industry in and around NYC such as current and past policies, practices, and mitigation strategies.
- Learned about social and environmental justice within the perspective of energy policy and research.

2021 NHEC New Mexico Institute Student

- Learned fieldwork basics through soil, air, and water testing as well as the use of high-grade equipment.
- Learned basics of GIS tools such as R and ArcMap.

2021 UNIDE Research Contributor

- Contributed to research with UNIDE focused on studying the accessibility of environmental science opportunities for minority students.

Awards and Leadership

2023 Expand Your Horizons (EYH)

- Group within Cornell University focused on science accessibility in young girls.
- currently serving as Social Media Chair, producing all communications for the 2023-2024 Cycle.

2023 GRASSHOPR E-Board Member and Educator

- Graduate Student School Outreach Program, group managed by Cornell graduate students to pair graduate students with K-12 educators for teaching mini-courses based on the graduate student's research focus.
- Serving as an e-board member, which contributes to planning of activities, management, and communications.
- Serving as an educator this upcoming Spring Semester, I will be teaching about the importance of forests.

2023 Vice Chair, Webmaster and Student Liaison of ESA Latin American and Caribbean (LAC) Section

- Shadowed the Chair of the ESA LAC Section in order for me to fulfill my duty as Chair of the next upcoming cycle (2024-2025).
- Coordinated and maintained open communications with liaisons within the ESA.

2022 Chair of ESA Student Section

- In charge of managing the ESA Student Section and planning activities Section wide.
- Serve as a student representative at the ESA Council.

2021 ESA SPUR Fellow

- SPUR (SEEDS Partnership for Undergraduate Research) is the highest honor within the SEEDS ESA program, in which students are encouraged to be leaders in the future of ESA.
- Presented a poster on my project at Harvard Forest with Dr. Jonathan Thomspon at the 2022 ESA Annual Meeting.
- Visited the Sevilleta Field Research Station in New Mexico to learn about current research and opportunities at the University of New Mexico.
- Along with a group of students conducted and performed our research project titled *Estimating the Variability in Mature Size Foliage in Three Plant Species Across Dry and Riparian Habitats*. The project was later presented to professionals in the field as well as graduate and undergraduate students.

2021 Vice Chair of ESA Student Section

- Shadowed the Chair of the ESA Student Body Section in order for me to fulfill my duty as Chair of the 2022-2023 cycle.

- Coordinated and maintained open communications with liaisons within the ESA.

2020-2022 ESA SEEDs Hunter College Chapter

- Founding member and current president of Hunter SEEDs (Strategies for Ecology Education, Diversity, and Sustainability Program) Chapter.
- Part of my role includes finding guest speakers on environmental topics such as climate change, mitigation strategies, and career tracks.
- teach and guide discussions on local ecology, sustainability, and climate change.
- Other responsibilities include leading, planning, and managing environmentally conscious projects.
- organized and am currently looking through student initiative projects such as herb carts, promoting a carbon-neutral student body, outreach, and volunteer opportunities.
- Drafted grant proposal for a chapter-wide trip to the Adirondacks which was approved.

2021-2022 Student Admission Leaders Team member

- Serve as representative of Hunter College and their office of Admissions and recruitment.
- Host on-campus and virtual campus visits, virtual admissions events, and social media outreach for prospective students and visitors.

2020-2022 Sigma Delta Pi-Xi- Chapter President

- Re-activated Hunter College's Spanish Honor Program Chapter after 4 years of dormancy.
- Organize and execute important academic events within the department and chapter.
- Contribute to outreach activities and projects at the Romance Languages Department.
- Work on promoting a safe space for the Hispanic/Latinx and different Spanish speakers at different levels at Hunter.

2021-2022 Hunter Sustainability Council member

- Participated in projects with the Hunter Sustainability Council such as green procurement and water consumption accountability.
- Participated in the October Campus Sustainability Month project, where different outreach ideas were explored and practiced in order to increase student advocacy in the environmental sector along with educating Hunter Students about their consumption.
- Participated in the Carbon offset project, where the overarching goal of the project is to have Hunter's Student Body to be carbon neutral.

Skills

- ✔ Basic biological and chemical principles
- ✔ Native fluency in Spanish, with business-level spoken and written proficiency
- ✔ Introductory experience in STELLA and LEAP
- ✔ Intermediate experience in MATLAB, R, ArcMap, and Landis-II models.

- ✔ Intermediate experience in Helioscope, solar panel design program
- ✔ Scientific Critical Thinking
- ✔ Introductory level knowledge on fieldwork used tools such as soil corers, electroshock tools, vegetation indexing materials, etc.