

Marissa Juliette Palmer
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EDUCATION

University of Virginia, Charlottesville, VA August 2015 – December 2018
Bachelor of Science, Environmental Science
Deans' List, Fall 2015, Spring 2018, Fall 2018

Texas A&M University Galveston, Galveston TX August 2021 - Present
Masters in Marine Biology
Advisor – Dr. Anna Armitage

RESEARCH EXPERIENCE

Texas A&M University Galveston, Galveston, TX August 2021- Present
Graduate Teaching Assistant, *Coastal and Wetland Ecology Lab*

University of Virginia, Cape Charles, VA September 2018 – August 2019
Research Assistant, *UVA Pace Aquatic Ecology Lab*

- Completed microscopic identification and measurement of benthic samples (specifically amphipods) from a Ph.D. student's previous field season in a laboratory setting at UVA
- Completed field work on the Eastern Shore of Virginia, conducted research on mudflat ecology, collected algal samples, mud cores, and identified shorebirds
- Participated in seagrass sampling on the Virginia Coast Reserve Long Term Ecological Research site

National Fish and Wildlife Foundation, Washington DC September 2017 - August 2018
Conservation Scholar, *Freshwater and Endangered Aquatic Species Focus Group*

- Assessed the water footprint of Fortune 500 companies, including their strategies for conservation and reporting
- Documented aquatic species' health in priority watersheds of the US, utilized GIS to create range maps for each species, and created a comprehensive species information database with specific parameters, including species' range, habitat requirements, and conservation status addressed through NFWF's conservation program
- Formulated final reports for NFWF headquarters' use in the form of datasets, maps, and qualitative reports

TRACE LTER, Luquillo, Puerto Rico June 2017 - August 2017
Research Assistant, *UVA Lawrence Lab*

- Assisted a UVA P.H.D. candidate in thesis research and field work focused on tropical forest carbon cycling at TRACE (Tropical Responses to Altered Climate Experiment) LTER in El Yunque National Forest
- Collected soil cores, measured soil carbon dioxide respiration (via IRGA) and quantified decomposition rates of soil and detritus
- Assisted in field campaigns conducted by the LTER site, including soil and forest censuses

Independent Study, Charlottesville, VA January 2018 - May 2018

Student under Pragyadipta Sen, Structural Geology Professor

- Researched b-value mapping under New Zealand volcanoes using Generic Mapping Tools (GMT), a shell-scripting Linux program,
- Created GMT guide on coding spatial points in 3D for geology students

Independent Study, Charlottesville, VA

January 2018 - May 2018

Student under Brian Richter, Water Resources Professor

- Researched western water rights state-by-state with the ultimate goal being a publication breaking down western water rights and conservation efforts
- Used public records and GIS to quantify in-stream flow purchases (state, federal, and private) across the western US
- **Publications:**
Richter, B.D., Andrews, S., Dahlinghaus, R., Freckmann, G., Ganis, S., Green, J., Hardman, I., **Palmer, M.**, and Shalvey, J..2020. "Buy Me a River: Purchasing Water Rights to Restore River Flows in the Western USA." *Journal of the American Water Resources Association* 56 (1): 1– 15. <https://doi.org/10.1111/1752-1688.12808>.

TEACHING EXPERIENCE

UVA Department of Environmental Science, Charlottesville, VA

January 2019 - May 2019

Structural Geology Teaching Assistant, *under Professor Sen*

- Graded class assignments and assisted in the mandatory lab each week
- Assisted the professor on geologic field trip by instructing field work methods

APPLICABLE PROFESSIONAL EXPERIENCE

Athenica Environmental Services, New York, NY

January 2020 – May 2021

Environmental Scientist, Assistant Project Manager

- Managed lead poisoning inspections in the New York City Department of Education's 1,700 schools and the New York City Housing Authority, built timely reports, analyzed laboratory data, and oversaw lead projects for residential and commercial clients
- Lead projects included soil, water, and lead paint inspections and remediations
- Managed a team of seven technicians, coordinating several projects in different phases per day and overnight while ensuring correct documentation, work permits, and proper tools
- Ensured quality control of field data, school databases, and historic data for analysis
- Since the start of the position, have completed over \$500,000 in billing

NYC H2O, New York, NY

August 2019 – January 2020

Education Coordinator and Grants Manager, *Americorps VISTA*

- Managed communication with schools and field trip staff to complete environmental education field trips throughout New York City's five boroughs with over 2,000 students served in a single fall
- Created social media posts (Instagram, Twitter, Facebook), maintained contact with volunteers through MailChimp, and updated programs and organization website (Weebly)

Appalachian Voices, Charlottesville, VA

January 2019 – August 2019

Advancement Fellow, GIS Team Member

- Research funding opportunities, write grant proposals, and edit applications to build organizational capacity
- Assist in nonprofit membership relations, including newsletter circulation and membership events
- Contributed GIS mapping to policy team, including analysis focused on abandoned mine lands, environmental and demographic data

SKILLS

- *Languages:* Intermediate Speaker, Advanced Reading and Writing
- *Technical Skills:* MatLab, Excel, Mathematica, GMT, SAS, GIS (ARCMAP, QGIS, GISOnline), Google Suite
- *Unrelated Programs:* Quickbooks, BillQuick, OpenTable, Resy, Weebly, Asana

LICENSES

- US EPA Lead Risk Assessor
- Federal Driver's License
- OSHA 30

OTHER PROFESSIONAL EXPERIENCE

Jean Georges, New York, NY

October 2019 – January 2020

Hostess

- Provided floor plan management in high-end Two Michelin Star restaurant, ensuring high-quality experience for each guest
- Assisted in data management of high-profile guests (i.e. preferred menu items, seating)

Morven Kitchen Garden, Charlottesville, VA

August 2018 – December 2018

Garden Intern

- Managed volunteers on sustainable farm, teaching G.A.P. (Good Agricultural Practices) protocol to students and Charlottesville community members
- Organized deliveries for community-supported agriculture (CSA) from the farm to members
- Facilitated student garden education at the University of Virginia

OTHER PROFESSIONAL EXPERIENCE - SERVICE

Sustainability Advocates, Charlottesville, VA

September 2016 – December 2018

Advocate Leader, *University of Virginia*

- Managed university-wide sustainability initiatives with fellow students, from recycling initiatives at sporting events to water conservation initiatives at concerts
- “Sustainability Leader” in final year in the club, lead a team of underclassmen in a project towards reusable to-go items in university cafeterias

“Adopt a Grandparent,” Charlottesville, VA

September 2016 – December 2018

Nursing Home Volunteer, *Madison House*

- Played weekly games, spent quality time with assigned “grandparent,” fostered relationships within Charlottesville community members