



EDUCATION

M.S. Earth Science 2020
University of California Santa Cruz
Thesis: "*Construction of a Soil Core Incubation Method for Measuring Nitrogen Removal in Wetlands and an Application in the Elkhorn Slough, CA, USA*"

B.S. Watershed Management 2017
Virginia Tech, Blacksburg, VA
Minors: Wetland Science, Forestry
Independent Study: *Stream Macroinvertebrates as Influenced by Forest Harvesting, Fishburn Experimental Forest, VA, USA*

APPOINTMENTS

Councilmember July 2024 - Present
USEPA Region 3 (First Region 3 Councilmember in History)
[National Tribal Water Council](#)

EMPLOYMENT

Environmental Director July 2024 - Present
[Environment & Culture Dept.](#), Upper Mattaponi Tribe, King William, VA

Environmental Specialist March 2024 - July 2024
Environment & Culture Dept., Upper Mattaponi Tribe, King William, VA

Lecturer January 2022 - September 2023
Dept. of Applied Environmental Sciences, California State University, Monterey Bay, CA

Field Biologist II May 2021 - December 2021
Restoration Group, H. T. Harvey & Associates, Los Gatos, CA

Graduate Researcher July 2018 - September 2020
Zimmer Watershed Hydrology Lab, University of California, Santa Cruz, CA



Andria "Andi" Greene
**Chesapeake Bay Wetland
Scientist**

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 [Google Scholar](#)

I use a **community-led approach to science**, allowing for mutually beneficial collaborations across Tribal, federal, state, academic, NGO, & private sectors with the theme of natural resource conservation.

I have **research, teaching, field, and collaborative experience** on the East and West coasts of the United States and, recently, I have begun collaborating internationally.

EMPLOYMENT Con't

Undergraduate Researcher Manager	Summer 2019
Zimmer Watershed Hydrology Lab, University of California, Santa Cruz, CA	
Graduate Teaching Assistant	Spring 2019
Dept. of Earth and Planetary Sciences, University of California, Santa Cruz, CA	
Undergraduate Researcher	August 2016 - August 2017
College of Natural Resources and Environment, Virginia Tech, Blacksburg, VA	
Laboratory Technician	Summer 2015
Benthic Ecology Lab, Virginia Institute of Marine Science, Gloucester Point, VA	

COURSES TAUGHT

California State University Monterey Bay	
ENVS 201/201L	Spring 2023: 66 students, Fall 2022: 50 students
<i>Introduction to Environmental Science</i>	
GEOL 260/260L	Spring 2023: 23 students, Spring 2022: 23, Fall 2022: 11 students
<i>Geology and Hydrology - Earth Systems Applications</i>	
GEOL 460/460L	Spring 2022: 14 students
<i>River Hydrology, Assessment, and Monitoring</i>	
ENVS 410	Spring 2022: 14 students
<i>Hydrology Capstone Integration Seminar</i>	
University of California Santa Cruz	
EART 20L (plus an invited lecture on Water Quality)	Spring 2018: 20 students per lab x3 labs
<i>Environmental Geology</i>	

GRANTS & AWARDS

NOAA Species Recovery Grant (\$294,285)	2025 - 2027
USEPA General Assistance Program (\$536,733)	2025 - 2028
USEPA Clean Water Act § 106 (First Tribe in Region 3; \$68,140)	2025
CSU Monterey Bay Exceptional Level of Service to Students Award	2023
UCSC Regents Fellowship	2019, 2020
CERF Biennial Conference Travel Grant	2019
UCSC Future Leaders of Coastal Sciences Grant (Co-PI; \$20,000)	2019
NSF Graduate Research Fellowship	2018
Dr. Earl & Ethel Myers Oceanographic & Marine Biology Trust	2018



GRANTS & AWARDS Con't

UC Davis ANR Drone Camp Remission	2018
VA Lakes and Watersheds Scholarship	2017
Thomas H. Jones Endowed Scholarship	2017
Revere Gas Scholarship	2016, 2017
Mary Emma Ragsdale Forestry Scholarship	2015

POPULAR SCIENCE

*Story mentioned on magazine cover

- *The Drake Magazine (Tippets). *"Little Kern Golden Trout: Water is the lifeline for a special fish"* plus Artwork, [winter 2022 issue](#).
- *Discover Magazine (Planet Earth). *"Join A Scientist's Undersea Adventure"*, March/April 2022 issue.

SELECTED PUBLICATIONS

*Mentored research

- Tatariw C, Seybold EC, Braswell AE, Arora B, Kleinhuizen (Nelson) A, Montalvo M, Visser A, Dwivedi D, [Greene AP](#), Zimmer M. Submitted. 2024. *"Terrestrial freshwater influences on salt marsh nitrogen processing are mediated through functional ecohydrologic zones"*.
- Foster NR., Jones AR, Serrano O, Lafratta A, Lavery PS, van Dijk K, Biffin E, Gillanders BM, Young J., Masque P, Gadd PS, Jacobsen GE, Zawadzki A, [Greene AP](#), Waycott M. Accepted. 2023. *"Environmental DNA identifies coastal plant community shift 1,000 years ago in Torrens Island, South Australia"*, Nature Communications: Earth & Environment.
- *[Greene AP](#), Carrazco BA, Cihasky AM, Cuevas-Cardenas ME, Day K, Eichel BM, Ewell J, Funcsh KA, Li V, M'Greené AMA, Melchor K, Rodriguez J, Schaer AN, Wells RD, Wichman GT. 2023. *"Environmental baseline conditions of a five-pond restoration wetland during the first year in Moro Cojo Slough, California"*, The Watershed Institute, California State Monterey Bay.

INTERNS & UNDERGRADUATE RESEARCHERS

Randolph Macon College	Winter 2024
Anne Whitehead	
California State University Monterey Bay	Summer 2022
(1) Sonia Kortencamp, (2) Valerie Li, and (3) Vee Rodriguez	
University of California Santa Cruz	Summer 2019
(1) Maya Montalvo, (2) Loren Tolley-Mann	

PRESENTATIONS

*Mentored presentations

- *Ryan H. 2025. "Acidification in the Chesapeake Bay", Ware Academy, May 20 (Won *Science Award*).
- *Whitehead A. 2024. "Enriching Tribal Youth Through Environmental Education", Randolph Macon College, January 31.
- Greene AP. 2023. "*Two Ways to Effectively Communicate STEM: Honoring Identity & Practicing Humility*", California Academy of Sciences, May 11.
- *Kortenkamp S, Greene AP, Rodriguez V, Li V, Greene AS, Foster NR. 2022. "Vegetative Cover and Water Quality in Summer 2022 at Tottino II Wetland in Moro Cojo Slough". CSU Monterey Bay Fall Research Competition, November 3.
- *Kortenkamp S, Greene AP, Rodriguez V, Li V, Greene AS, Foster NR. 2022. "Vegetative Cover and Water Quality in Summer 2022 at Tottino II Wetland in Moro Cojo Slough", Undergraduate Research Opportunities Center's Summer Research Symposium, August 12. (Won *Outstanding Research Poster* among 68 undergraduates)
- *Li V, Greene AP, Rodriguez V, Kortenkamp S, Greene AS, Foster NR. 2022. "Aquatic Invertebrate Biodiversity and Abundance in Spring and Summer 2022 at Tottino II Wetland in Moro Cojo Slough", Undergraduate Research Opportunities Center's Summer Research Symposium, August 12.
- *Rodriguez V, Greene AP, Kortenkamp S, Li V, Greene AS, Foster NR. 2022. "Rehabilitation Investigation: Recording Growing Avian Populations at Tottino II Wetland Restoration Site in Moro Cojo Slough", Undergraduate Research Opportunities Center's Summer Research Symposium, August 12. (Won *Outstanding Research Poster* among 68 undergraduates)
- Tatarw C, Seybold EC, Montalvo M, Zimmer MA, Kleinhuizen A, Visser A, Braswell AE, Grande E, Arora B, Greene AP. 2021. "The role of seasonal precipitation as a hydrologic driver of salt marsh nitrogen removal". Coastal Estuarine and Research Federation Biennial Conference, Virtual, November 1-4 and 8-11.
- Greene AP. 2021. "*Invertebrates of the San Francisco Bay grouped by taxonomic class*", San Francisco Bay-San Joaquin Delta 11th Biennial Science Conference, Virtual, April 6-9. (Art Exhibit)
- Greene AP. 2021. "*Nitrogen Source or Sink? Results from a Soil Core Incubation Experiment During Winter in an Elkhorn Slough Salt Marsh*", California Society for Ecological Restoration: Wetlands Technical Session, Virtual, September 13.
- Aponte H, Greene AP, Troutman A, Brown, D. 2021. "Leveraging Social Media for Science Communication", Society of Wetland Scientists Annual Meeting, Virtual, June 1.
- Greene AP. 2021. "SciComm and Beyond", Society of Wetland Scientists: Student Section, Virtual, May 28.



PRESENTATIONS Con't

*Mentored presentations

Greene AP. 2021. Career Speaker Series Q&A, Women in Science Society University of California Santa Cruz, Virtual, January 26.

Greene AP, Zimmer MA, Tatariw C, Visser A, Seybold EC, Braswell AE. 2020. *"Nitrogen Removal and Retention in a Coastal Wetland"*, Department of Earth and Planetary Sciences Second/Fourth Year Talk: University of California Santa Cruz, Virtual, May 21.

Greene AP. 2020. Elementary School Visit, Women in Science and Engineering: University of California Santa Cruz, Moss Landing, CA, January 28.

Grande E, Zimmer MA, Seybold EC, Braswell AE, Tatariw C, Greene AP, Montalvo M, Birgand F, Visser A, 2020. *"Using high spatiotemporal nitrate measurements to assess nutrient transport and transformations at the terrestrial-marine interface of a tidal watershed"*, American Geophysical Union Fall Meeting, San Francisco, CA, December 9-13.

Zimmer MA, Grande E, Seybold EC, Braswell AE, Visser A, Greene AP. 2019. *"Coupled High Frequency Sensor Network and Environmental Tracers to Quantify Subsurface Nitrate Transport to a Coastal Estuary"*, American Geophysical Union Fall Meeting, San Francisco, CA, December 9-13.

Seybold EC, Braswell AE, Greene AP, Grande E, Zimmer MA. 2019. *"Using high-frequency sensor networks to quantify terrestrial nitrogen sources to a coastal estuary"*, Coastal Estuarine and Research Federation Biennial Conference, Mobile, AL, November 3-7.

Greene AP, Zimmer MA, Tatariw C, Visser A, Seybold EC, Braswell AE. 2019. *"Identifying the complex pathways of nitrate transport and removal in an agriculturally dominated estuary"*, Coastal Estuarine and Research Federation Biennial Conference, Mobile, AL, November 3-7.

Greene AP, Zimmer MA, Tatariw C, Visser A, Seybold EC, Braswell AE. 2019. *"Quantification of Salt Marsh Nitrogen Removal along a Tidal Inundation Gradient"*, Slough Science Symposium, Moss Landing, CA, October 11.

Greene AP. 2014. First Year Experience Natural Resources and Environment, "Eutrophication in the Chesapeake Bay" (Voted by classmates to present orally).

SPOTLIGHT

CSU Monterey Bay Dept. of Applied Environmental Science Highlight. *"[AES Lecturer is Dedicated to Igniting Students' Interest in Environmental Science](#)"*, published February 12, 2023.

Awkward Angler Podcast. *"[Cultural Appropriation and Getting Called Out](#)"*, published July 20, 2021.

Women Doing Science. [Instagram Post on @women.doing.science](#), published September 14, 2020.

SPOTLIGHT Con't

National Estuarine Research Reserve Association. "[A Chesapeake Bay Native Lands at Elkhorn Slough](#)", published November 4, 2019.

COMMUNITY BUILDING

Co-host and Co-producer of [Badass Women in STEM Podcast](#)
Creator of [@Wetlands_101](#)

TRAINING, LICENSES, & CERTIFICATES

VA DWR Boater Safety Course	2025
CSU Alliance for Graduate Education and the Professoriate	2022 - 2023
CSU Monterey Bay Faculty Learning Program	2022 - 2023
CDFW Heritage Trout Challenge	2020
UC Agriculture and Natural Resources Drone Camp	2018
FAA Remote Pilot	2018
TDI Nitrox Certified	2016
PADI Open Water Diver	2015

CONFERENCES, WORKSHOPS, & TRAVEL

Coastal & Estuarine Research Federation Biennial, Richmond, VA (Upcoming)	2025
Penobscot Indian Nation Water Program Shadow, Indian Island, MA (Upcoming)	2025
National Tribal Water Council, Washington, DC	Spring 2025
Environment Virginia Symposium, Lexington, VA	2025
ELI National Training Workshop on Water Quality, Shepherdstown, WV	2024
USEPA's Northeast Water Summit for Nations and Tribes, Hogansburg, NY	2024
Environment Virginia Symposium, Lexington, VA	2024
Coastal & Estuarine Research Federation Biennial, Mobile, AL	2019
UC Agriculture and Natural Resources Drone Camp, San Diego, CA	2018
UCSC Earth & Planetary Science Foundations Field Trip, Big Sur, CA	2018
VIMS Scientific Diving Shadow, York River VA & Harris Creek MD	2015



Check out our collaboration with VCU Rice Rivers Center to [find endangered juvenile Atlantic Sturgeon in the Mattaponi River!](#)