

Adrianna L. Gorsky

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EDUCATION

University of Wisconsin-Madison (UW)- *Madison, WI*

M.S. Freshwater and Marine Sciences

Expected Summer 2021

University of Virginia (UVA) - *Charlottesville, VA*

B.A. with High Distinction, Environmental Sciences | Overall GPA: 3.787

May 2016

Honors: Phi Beta Kappa

University of Amsterdam - *Amsterdam, Netherlands*

Future Planet Studies Program | Relevant Coursework: Water Quality, Water Management

Feb – May 2015

William & Mary (W&M), Employee Tuition Waiver Program- *Williamsburg, VA*

Relevant Coursework: Intro and Advanced Biostats, Intro to Bayesian, GIS for Biologists

Jan 2017 – Jan 2019

APPOINTMENTS

Teaching Assistant, Introduction to Limnology Lab- University of Wisconsin-Madison

Fall 2019 and 2020

RESEARCH EXPERIENCE

Laboratory Technician, W&M Keck Environmental Field Lab - *Williamsburg, VA*

Aug 2016 – July 2019

- Maintained the overall teaching and research environment by providing general lab support, program development and student-faculty research support under the directorship of Dr. Randy Chambers.
- Managed the College Creek Alliance by collecting and analyzing water samples quarterly from the local watershed.
- Contributed to the Florida Coastal Everglades Long-Term Ecological Research with annual collection and lab analysis of soil cores from 17 sites ranging from the Florida Bay to mangrove forests.
- Provided field and lab support for the Coastal SEES, NSF-funded, project that investigated the ecosystem function response curves of living shorelines and natural fringing marshes. Field work included fish and turtle surveys and soil and plant collection. Lab work included estimating primary production, nutrient storage and carbon storage.
- Analyzed greenhouse gas fluxes from stormwater retention ponds in Williamsburg with a gas chromatograph.

Research Assistant, Marine Biological Laboratory- Dr. Christopher Neill- *Woods Hole, MA*

June – Aug 2016

- Conducted field work and vegetation surveys on a project that evaluated the effect of grazing manipulations on invasive shrubbery on Naushon Island.
- Contributed to a second project that investigated the effect of cranberry agriculture on nutrient balance in a watershed. Field and lab work included setting up ISCO samplers and processing the water samples for nutrient analysis.

Distinguished Majors Program, Dept. of Environmental Sciences- *Charlottesville, VA*

Aug 2014 – May 2016

- Examined the role and dynamics of biological nitrogen fixation (BNF) on a permaculture farm through vegetation surveys, stable isotopic and CHN analysis of plant and soil material.
- Produced a senior honors thesis while maintaining a GPA of at least 3.4 and 12 hours of advanced coursework. Advised by Dr. Jim Galloway and Dr. Howie Epstein.
- Volunteered previously in the same lab preparing soil and water samples for laboratory analysis and assisted in stream gauging and lysimeter sampling.

Conservation Intern, The Nature Conservancy (TNC) - *Charlottesville, VA*

June 2015 – May 2016

- Assisted Brian Richter, TNC's Director of Global Freshwater Program, in conducting research on global water scarcity and its consequences on people and freshwater systems.
- Identified agricultural water savings to potentially help restore freshwater ecosystems as part of a group research project and a peer-reviewed paper.

SKILLS

Proficient in: R and ArcGIS; licensed small boat operator, ATV and snowmobile.

AWARDS

- Mahlon G. Kelly Prize:** May 2016
- Awarded to the undergraduate ecology student who has established the best major GPA over 4 years.
- University Achievement Award:** 2012-2016
- A full tuition and required fees scholarship for four years.

PUBLICATIONS

Richter, B., J. Brown, R. DiBenedetto, **A. Gorsky**, E. Keenan, C. Madray, M. Morris, D. Rowell, S. Ryu. 2017. Opportunities for saving and reallocating agricultural water to alleviate water scarcity. *Water Policy*, 19: 886-907.

Gorsky, A., G.A. Racanelli, A.C. Belvin, R.M. Chambers. 2019. Greenhouse gas flux from stormwater ponds in southeastern Virginia (USA). *Anthropocene*. 28:100218.

Casteneda-Moya, E., V.H. Rivera-Monroy, R.M. Chambers, X. Zhao, L. Lamb-Wotton, **A. Gorsky**, E.E. Gaiser, T.G. Troxler, J.S. Kominoski, M. Hiatt. 2020. Hurricanes fertilize mangrove forests in the Gulf of Mexico (Florida Everglades, USA). *PNAS*. 117 (9): 4831-4841.

POSTERS

Marsh Resilience Summit, Williamsburg, VA. February 2019. "Accrual of Nutrients in Living Shorelines in Relation to Natural Fringing Tidal Marshes."

FCE LTER All Scientists Meeting, Miami, FL. May 2018. "Can Mangrove Wetlands Keep Up with Sea Level Rise?"

Association of the Advancement of Sustainability in Higher Education, Minneapolis, MN. October 2015. "Energize UVA: The Ins and Outs of Student Outreach."