

Gabrielle Armin

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EDUCATION

- Department of Environmental Engineering Sciences, University of Florida** **Gainesville, Florida, USA**
➤ *B.S. in Environmental Engineering; Overall GPA: 3.71* Aug 2016 – May 2020
➤ *Minor in Sustainability Studies*
- Graduate School of Oceanography, University of Rhode Island** **Narragansett, Rhode Island, USA**
➤ *PhD student* Aug 2020 - Present

RESEARCH POSITIONS

- Undergraduate Research Assistant** Jul 2019 – Jan 2020
University of Florida | Howard T. Odum Wetland Ecology Lab
Mentor: Dr. Elliott White, Associate Professor of Earth System Science, Stanford University
➤ Researched the effect of saltwater intrusion in freshwater wetlands along the Suwannee River. Specifically, measured the amount of carbon dioxide and methane gas produced from soil cores in the presence of increased concentrations of saltwater from various sites along the river.
- Undergraduate Research Assistant** Mar 2019 – Jul 2020
University of Florida | Sustainable Materials Management Research Lab
Advisor: Dr. Timothy Townsend, Professor of Environmental Engineering Sciences, University of Florida
➤ Researched the construction and design of treatment wetlands for landfill leachate. Designed a sustainable onsite treatment wetland system
➤ Project Manager of three separate waste composition studies in various Solid Waste divisions of Florida to update the Florida Department of Environmental Protection's tool called WasteCalc.
- Graduate Research Assistant** Aug 2020 - Present
University of Rhode Island | *Quantitative Microbiology Lab*
Advisor: Dr. Keisuke Inomura, Associate Professor at the Graduate School of Oceanography, University of Rhode Island
➤ Using a Cell Flux Model of Phytoplankton to assess environmental effects on growth rate, allocation of macromolecules, and elemental stoichiometry

RESEARCH INTERESTS

Quantitative microbiology, Quantitative coastal microbiology, Global biogeochemical and ecosystems models, phytoplankton physiology, Microbial ecology, Biogeochemistry, Climate Change, Elemental composition in microbial cells, Mathematical modeling, Carbon export, Climate forecasting

PUBLICATIONS

- Armin G**, Inomura K. Modeled temperature dependencies of macromolecular allocation and elemental stoichiometry in phytoplankton. *Computational and Structural Biotechnology Journal*. 2021; 19:5421-5427. Available from: <https://linkinghub.elsevier.com/retrieve/pii/S200103702100413X> DOI: 10.1016/j.csbj.2021.09.028
- Inomura K, Masuda T, Eichner M, Rabouille S, Zavřel T, Červený J, Vancová M, Bernát G, **Armin G**, Claquin P, Kotabová E, Stephan S, Suggett DJ, Deutsch C, Prášil O (2021) Quantifying *Cyanothece* growth under DIC limitation. *Computational and Structural Biotechnology Journal* 19:6456–6464.

PRESENTATIONS

- Armin G**, Inomura K. (2022) Modeling Silica Accumulation in Diatoms. *Ocean Science Meeting*

SYNERGISTIC ACTIVITIES

- Central Falls Mini Boat Program** Summer 2021, Spring 2022
Scientific Outreach Instructor/ Mentor
➤ Taught students in underrepresented community in Rhode Island basic oceanographic principles (biological,

physical, and chemical) and helped in the construction of a Mini Boat that was released later on a research cruise. Students are able to track the boat and see the data it collects.

2. **The Ocean Scientist is in!** Summer 2021
Outreach Scientist at Roger Williams Zoo
 - Interacted with park guests, answering any questions about oceanography, marine biology, or climate change.
3. **Introduction to Engineering**, The University of Florida Aug 2019-Dec 2019
Teaching Assistant
 - Conducted a lecture once a week to a rotating group of aspiring engineers to explain the studies, duties and responsibilities of environmental engineers. Performed experiments and activities to illustrate various aspects of environmental engineering.
4. **Save the Bay**, Newport, Rhode Island May 2018-Aug 2018
Aquarist and Educator
 - Maintained safe, hospitable environments for the animals in the aquarium, helped to acclimate new animals and released healthy animals back into the ocean
 - Conducted science experiments and spoke to visitors of the aquarium on topics of climate change/environmental degradation and the animals present in the aquarium
5. **Florida Springs Institute** Dec 2018-May 2019
Ecological Monitor
 - Conducted ecological monitoring of springs in the Northeast region of Florida

AWARDS AND HONORS

- University of Florida Presidential Scholar (2016-2020)
- Florida Academic Scholar (2016-2020)
- Graduated with honors, *cum laude*, University of Florida (2020)