

Rebecca Erin Stanley

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Education

Ph.D. Engineering – Resilient Infrastructure Systems Emphasis

University of Georgia | Expected Graduation - December 2027

M.S. Civil & Environmental Engineering – Sustainable Coastal Engineering Emphasis

University of Georgia | December 2022 | GPA: 3.77

B.S. Environmental Engineering

University of Georgia | May 2021 | GPA: 3.44

♦ Dean's List Recipient | Spring 2018, Fall 2021

Certifications

Georgia EIT License | EIT028804 | Issued June 15, 2021

Emerging Engineering Leaders Development Certification | Received May 6, 2021

Research Experience

Graduate Teaching and Research Assistant

January 2022 – Present

University of Georgia | Athens, Georgia

- ♦ Conducting research towards Ph.D. dissertation as a part of the Coastal Ocean Analysis and Simulation Team (COAST Lab) with funding by the National Oceanic and Atmospheric Administration
- ♦ Instructing the laboratory section of the undergraduate *Natural Resources Engineering* course

Graduate Research Assistant

June 2021 – December 2022

University of Georgia | Athens, Georgia

- ♦ Conducted research towards master's thesis as a part of the Coastal Ocean Analysis and Simulation Team (COAST Lab), the Coastal Oceanography & Biophysical Integrated Analysis (COBIA) Lab, and the Network for Engineering with Nature (N-EWN) with funding by the U.S. Army Corps of Engineers
- ♦ Research involves modeling oyster reef growth and survival under various coastal hydrodynamic conditions in MATLAB to assess reef resilience when acting as submerged natural infrastructure

Undergraduate Research Assistant

January 2021 – May 2021

University of Georgia | Athens, Georgia

- ♦ Conducted analysis of water samples from the Sewanee watershed to detect efficacy of contaminant removal via phytoremediation through conducting solid phase extraction and mass-spectroscopy analysis

Undergraduate Research Assistant

August 2019 – March 2020

University of Georgia | Athens, Georgia

- ♦ Studied relationships between abiotic factors and fluid flow patterns in the Baja California beach through data analysis conducted in MATLAB

Professional Experience

Client Services Associate

February 2021 – June 2021

Rubicon Global | Remote

- ♦ Processed service requests of sustainable waste management for major national retailers
- ♦ Created a streamlined and efficient waste removal process with 95% of removals scheduled the following business day by optimizing efficient communication and coordination with contracted waste haulers and clients

Environmental Engineering Intern

June 2020 – August 2020

Freese and Nichols | Atlanta, Georgia

- ♦ Drafted proposals for municipal Request for Qualifications
- ♦ Researched previous permits and rehabilitations for Florida water departments to be referenced in proposal drafts
- ♦ Drafted technical emergency response plans for boil-advisories and water contamination
- ♦ Managed infrastructure project timelines

Teaching Experience

Laboratory Instructor

January 2022 – Present

University of Georgia | Athens, Georgia

- ♦ Instructing the laboratory section of an undergraduate course *Natural Resources Engineering* as a Graduate Teaching and Research Assistant
- ♦ Create laboratory activities relevant to the course content learned in the associated lecture section, including topics related to water resources, hydrological processes, and basic water infrastructure design
- ♦ Periodically instruct the lecture course section
- ♦ Assist in creating lecture material
- ♦ Lead study sessions and exam review sessions

Teaching Assistant

August 2019 – December 2019

University of Georgia | Athens, Georgia

- ♦ Attended lectures in a ‘flipped classroom’ setting to assist students with in-class practice problems
- ♦ Held weekly office hours for additional help and tutoring
- ♦ Led exam review sessions

Conferences and Presentation

Speaker - *Modeling Oyster Reef Resilience as a Form of Nature-Based Infrastructure in Response to Local Hydrodynamic Conditions*

AGU Fall Meeting | Chicago, IL | December 13, 2022

Leadership Experience

Mentor

October 2021 – July 2022

Clean Water Science Network

- ♦ Mentored Latin American students in pursuing graduate studies or careers related to water

Vice President

January 2021 – December 2021

Society of Environmental Engineers | University of Georgia | Athens, Georgia

- ♦ Served as second in command for club
- ♦ Led organization and facilitation of club events and excursions
- ♦ Represented the environmental engineering program during ABET accreditation auditing and provided information on professional and extracurricular resources and quality of education provided to students

Treasurer

January 2020 – December 2020

Society of Environmental Engineers | University of Georgia | Athens, Georgia

- ♦ Created club budget and ensured funds were delegated in accordance with College of Engineering student organization policies
- ♦ Managed all transactions
- ♦ Facilitated reimbursement process within strict deadlines
- ♦ Financed excursions for over fifty club members while staying under allotted budget

Professional Membership

- ♦ Student Society of the American Society of Civil Engineers
- ♦ Coasts, Oceans, Ports, and Rivers Institute of the American Society of Civil Engineers

Computer Skills

ADCIRC | AutoCAD | Bluebeam Revu | EPAnet | Flow-3D Hydro | Flow-3D Post
HEC-HMS | HEC-RAS | Linux | MATLAB | Microsoft Office | Python3 | R Studio | Simapro
SMS | STWAVE