

Charles P. Taibi

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Education

Texas A&M University, College Station, TX

- PhD in Environmental Engineering

College of Charleston Honors College, Charleston, SC

- *Bachelor of Science in Marine Biology, May 2022*
- *Bachelor of Arts in Chemistry, May 2022*
- Minor: Mathematics
- Overall GPA: 3.889

Research Experience

National Science Foundation Research Experience for Undergraduates (REU); Fort Johnson Campus Charleston, SC: *Summer 2021*; Duration 10 weeks

- Proposed and conducted original research question with Dr. Erik Sotka (College of Charleston Biology Dept.) on the soil gradients found within Charleston's *Spartina alterniflora* marshes
- Developed and carried out field and laboratory protocol for surveying the soils in the marshes
- Worked collaboratively with other students and researchers involved in the program
- Created a manuscript and Presentation on findings from the summer
- Presented findings at the Benthic Ecology Meeting in Spring 2022

Marine Science and Nautical Training Academy (MANTA); British Virgin Islands: *Summer 2019*; Duration 2 Weeks

- Explored coral reefs and conducted a survey on coral disease distribution in a field study program
- Obtained official PADI open water diver certification and experience with scientific diving
- Lived and worked on a 70ft Trimaran
- Passed course examination and earned college credits towards degree

Shoals Marine Laboratory; Appledore Island, ME: *Summer 2017*; Duration 2 Weeks

- Cornell Sponsored, college level course: "Ecology and the Marine Environment"
- Conducted research on *Littorina littorea* found within the intertidal zone
- Met and worked with professionals within the academic community
- Passed course examination

Relevant Work Experience

General Engineering Laboratories (GEL) Lab Analyst in Training: *June 2022- June 2023*

- Analyzed environmental samples using standard analytical techniques corresponding to scientific and EPA methodology.
- Applied standard operating procedures for to test for Radium-226/ 228 in drinking water and other environmental samples

Chemistry Tutor: *Fall 2020 – Present*

- Aid students with challenging Chemistry courses by providing them with study techniques and helpful practice problems
- Developed and applied personal teaching style to help students learn organic and introductory Chemistry

College of Charleston Supplemental Instructor for Introductory Chemistry: *Fall 2019 – Fall 2020*

- Attended chemistry courses to develop lesson plans for Supplemental Instructor (SI) sessions in response to student needs
- Assisted students in developing good study habits and understanding the material

Honors & Awards

REU Travel Grant: *Spring 2022*

- Awarded to compensate travel expenses to the Benthic Ecology Meeting

President's List: *Spring 2019 – Spring 2022*

Dean's List: *Fall 2018*

College of Charleston Academic & Merit Scholarship: *Fall 2018 – Spring 2022*

- Awarded Academic and Merit scholarships every Fall and Spring semester

UNICO Scholarship: *Fall 2018 – Spring 2022*

LHY YMCA Scholarship: *Fall 2018 – Spring 2019*

Martin Luther King Leadership Scholarship: *Fall 2018 – Spring 2019*

Kiwanis Scholarship: *Fall 2018 – Spring 2019*

Leadership

Gamma Delta Chapter of the Alpha Chi Sigma Chemistry Fraternity: Member; *Fall 2020 – Present*

- Developed professional connections within the chemistry community
- Fostered peers' interest in chemistry at the College of Charleston and the public by leading chemistry demonstrations
- Participate in activities carried out campus wide that foster leadership and advancement of chemistry as a science

Charleston 40 Tour Guides: Member; *Spring 2019 – Spring 2022*

- Improved public speaking and large group management by explaining the traditions and history that make the College of Charleston unique to prospective students and their families
- Gave insight into the student experience at the College of Charleston using personal anecdotes
- Developed connections within the Office of Admissions at the College of Charleston

College of Charleston Club Swim Team: President; *Fall 2020 – Spring 2022*, Member; *Fall 2018 – Spring 2022*

- Led the Club Swim Team during practices and meets
- Organized logistics and communication of the swim team with faculty at the College of Charleston and other Clubs in the Southeast
- Participated in College Club Swim meets and events in the Southeast

Additional work experience

Deck hand for Coastal Carolina Yacht Sales *Fall 2020 – Spring 2021*

Duvall Catering Server *2019-2021*

Certified WSI Swim Instructor and Coach *2017-2019*

Certified Lifeguard *2016-2019*

Certifications

PADI certified Advanced Open Water Diver *2021*

PADI certified Enriched Air NOx Diver *2021*

PADI certified Open Water Diver *2019*

Applicable Skills

Instruments operated

- Direct Mercury Analyzer (DMA-80 evo)
- RTN-enabled Trimble R8 receiver and TSC3 data controller
- Thermo Scientific Orion Star A321 meter with a combination ORP redox and pH probe
- CILAS 1180 Laser Particle Size Analyzer
- GC MS
- ESI MS
- MALDI TOF
- HPLC