

EDUCATION

MASTER OF SCIENCE | CIVIL AND ENVIRONMENTAL ENGINEERING

Emphasis in Sustainable Coastal Engineering

University of Georgia | Expected Graduation - December 2022 | GPA: 3.85

BACHELOR OF SCIENCE | ENVIRONMENTAL ENGINEERING

University of Georgia | May 2021 | GPA: 3.44

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

CERTIFICATIONS

- ♦ **EIT License** | EIT028804 | Issued June 15, 2021
- ♦ **Emerging Engineering Leaders Development Certification** | Received May 6, 2021

RESEARCH EXPERIENCE

GRADUATE RESEARCH ASSISTANT

June 2021 – Present

University of Georgia | Athens, Georgia

- ♦ Conducting research towards master's thesis as a part of the Coastal Ocean Analysis and Simulation Team (COAST Lab) and the Network for Engineering with Nature (N-EWN)
- ♦ Research involves modeling oyster reef growth and survival under various coastal hydrodynamic conditions to assess resilience of reefs on 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, Mexico 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

PROJECT EXPERIENCE

INFLOW AND INFILTRATION SOURCE INVESTIGATION

August 2020 – May 2021

Senior Capstone Design Course Project | University of Georgia | Athens, Georgia

Investigated sources of inflow and infiltration for the City of Thomson, Georgia sewer system in a two-semester group course project to make recommendations for rehabilitation or replacement of structures, conduct a hydraulic analysis, and design pump upgrades modeled in AutoCAD

LIFE CYCLE ANALYSIS OF BIOMASS-GENERATED PHOTODEGRADABLE POLYMERS

January 2021 – May 2021

Life Cycle Analysis Course Project | University of Georgia | Athens, Georgia

Performed a life cycle assessment using Simapro of traditionally produced 2,5-furandicarboxylic acid (FDCA) and the proposed programmed photodegradation of polymeric/oligomeric materials derived from renewable bioresources to determine if the proposed process is a sustainable approach to create an alternative to traditional polymers during group course project

WATER UTILITY PLAN AND DESIGN FOR RESIDENTIAL DEVELOPMENT

January 2021 – May 2021

Closed Conduit Flow Course Project | University of Georgia | Athens, Georgia

Designed utility plans for hypothetical residential development in Athens, Georgia, including stormwater, sanitary sewer, and water distribution systems to be connected to and function with existing utilities at the proposed location during group course project

RIVERINE SOLID WASTE REMOVAL SYSTEM

January 2019 – May 2019

Sophomore Capstone Design Course Project | University of Georgia | Athens, Georgia

Designed system preventing plastic waste in the Ozama River, Dominican Republic from entering the ocean through concentrating intercepted waste flowing through the river by a system of tubing-supplied airflow and physical barriers to be removed by employees and disposed of safely in a group course project. Detailed budgeting of all materials, labor, maintenance, and employee wages was conducted. Final project and designs were proposed to representatives of non-profit *Parley for the Oceans* in collaboration with Adidas AG.

RAINWATER COLLECTION AND FILTRATION SYSTEM

November 2017 – December 2018

University of Georgia | Athens, Georgia

Designed a rainwater collection and filtration system to supply collected drinking water to goats housed by Chew Crew, a student organization implementing the use of livestock for landscaping at the University of Georgia, as a group of volunteering members of the Society of Environmental Engineers

LEADERSHIP EXPERIENCE

MENTOR

October 2021 – Present

Clean Water Science Network

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

VICE PRESIDENT - SOCIETY OF ENVIRONMENTAL ENGINEERS

January 2021 – December 2021

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 - SOCIETY OF ENVIRONMENTAL ENGINEERS

January 2020 – December 2020

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

TEACHING ASSISTANT - FLUID MECHANICS

August 2019 – December 2019

University of Georgia | Athens, Georgia

- ♦ Attended lectures, graded assignments, held weekly office hours, and led exam review sessions for over forty students

PROFESSIONAL MEMBERSHIP

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

EXTRACURRICULAR INVOLVEMENT

MEMBER – SOCIETY OF ENVIRONMENTAL ENGINEERS

August 2017 – Present

University of Georgia | Athens, Georgia

- ♦ Attends volunteer events for Athens community
- ♦ Previously maintained courtyard landscaping at the Driftmier Engineering Center
- ♦ Provides guidance, advice, and resources to younger environmental engineering students

MEMBER – SPEAK OUT FOR SPECIES

August 2017 – May 2018

University of Georgia | Athens, Georgia

- ♦ Raised awareness of issues that impact animals
- ♦ Participated in discussions of working towards more humane treatment of animals locally and globally
- ♦ Provided advice and guidance to other members on eating a more plant-based diet

MEMBER - DOGS FOR THE PAWS

August 2017 – May 2018

University of Georgia | Athens, Georgia

- ♦ Volunteered at Athens area animal shelters
- ♦ Fundraised money and supplies to animals in need

ADDITIONAL WORK EXPERIENCE

FRONT OF HOUSE STAFF

November 2020 – February 2021

Nedza's | Athens, Georgia

FRONT OF HOUSE STAFF

August 2020 – November 2020

Saucehouse | Athens, Georgia

SERVER

August 2016 – November 2020

Hometown Barbeque | Lawrenceville, Georgia

STUDENT ASSISTANT

January 2020 – March 2020

University of Georgia Transportation and Parking Services | Athens, Georgia

FACILITY ATTENDANT

August 2019 – December 2019

Ramsey Student Center | Athens, Georgia

FRONT SERVICE CLERK

December 2018 – May 2019

Publix Super Markets | Athens, Georgia

MATH TUTOR

January 2018 – December 2018

Self-Employed | Dacula, Georgia and Athens, Georgia