

Ayanna Butler

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OBJECTIVE

Goal is to gain research and leadership experience through involvement in internship and extracurricular programs to become a strong graduate school candidate. Aiming to combine problem solving skills from engineering background with technical skills from scientific research experiences. Interested in the environmental sciences, conservation, aquatic health, and combating climate change.

EDUCATION

BSc in Civil Engineering;

Howard University, Washington D.C.

Expected Graduation: May 2021

RELEVANT COURSEWORK

Statics; Dynamics; Physics I,II Lecture and Lab; Calculus I,II,III; Differential Equations; Material Science; Probability and Statistics; Chemistry Lab; Environmental Engineering; Mechanics of Materials Lecture and Lab; Fluid Mechanics Lecture and Lab; Soil Mechanics Lecture and Lab; Transportation Engineering; Structural Engineering; Oceans and Environmental Sciences: Global Climate Change

In Progress: Engineering Project Management; Advanced Hydrology; Traffic Engineering; Foundation Engineering

RESEARCH EXPERIENCE

WHRC Intern, Virtual

August 2020-Present

- Analyzing methane discharge data collected from reservoirs in the Amazon Rainforest

PEP/WHOI Intern, Woods Hole, Massachusetts.

June 2020-August 2020

- Interpreted NES-LTER data collected along the Northeast US shelf to make analyses efficient for scientists
- Created an R script that maps water masses along the shelf
- Developed a reproducible workflow that replicates maps and plots for data from multiple sources

NOAA VizLab Intern, Silver Spring, Maryland

June 2019-August 2019

- Developed web mapping application focused on ocean acidification using NOAA data
- Supported data collection through NOAA's GeoPlatform to keep members updated with NOAA's most accurate data

Software and Design Final Project Participant, Washington D.C.

April 2018 - May 2018

- Analyzed and designed an X-braced frame using the AISC 360-10 code with SAP
- Drew construction sheets using AutoCAD and prepared material costs report using Excel

SOFTWARE SKILLS

AutoCAD; SAP2000; Autodesk Fusion 360; Mathcad; GIS; RStudio; WMS

PANEL/SPEAKING EXPERIENCE

MAFSM Conference Speaker

October 2019

- Presented research on ocean acidification module development

NOAA Women's Equality Day Panelist

October 2019

- Spoke on the perspective of women entering the workforce and the importance of inclusivity

Congressional Black Caucus Panelist

July 2019

- Spoke on the experience of a black collegiate student and the importance of education

“Yes She Can” Women’s Panel

October 2019

- Hosted panel consisting of women of color to speak about their challenges and successes as professionals

SERVICE

Annual Earth Week

April 2019

- Hosted events including water professionals, climate change discussions, campus clean-ups, etc.

SOME (So Others Might Eat) Food Kitchen Volunteer

May 2019–Present

- Provided quality dining services and positive interactions with guests

Water Palooza

November 2019

- WEF event where student chapters put on a water based demonstration for young children

Feminine Drive

August 2019–November 2019

- Collected and donated feminine hygiene products for girls and women in underserved communities

LEADERSHIP AND DEVELOPMENT

PEP Scholar

2020

- Internship program providing research experience in marine and environmental science.

Howard University Water and Environment Association

2018–2020

- President and founder of the WEF student chapter providing career opportunities and promoting healthy environmental practices for our area.

NOAA EPP/MSI Scholar

2019–2020

- Internship and scholarship program promoting research in atmospheric, oceanic, and environmental sciences.

WEF InFLOW Scholar and Young Professional

2019

- Program set to introduce minority students to the water sector and to help foster successful networks.

Engineering Tomorrow Mentor

2019–Present

- Mentoring high schoolers at DC Water Blue Plains Labs helping them with engineering lab experiments.

National Society of Black Engineers

2017–Present

- Organization offering opportunities for minority engineers.

Ambassadors of Engineering

2018–Present

- Organization creating outreach opportunities for children and the community through STEM demonstrations.

American Society of Civil Engineers

2017–Present

- Organization providing information and opportunities in the world of civil engineering.