

Janice Williams

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EDUCATION

Elon University, Elon, NC

Bachelor of Science: Chemistry; Minor: Business Administration

Odyssey Scholar, Phi Lambda Upsilon National Chemistry Honor Society, Dean's List

May 2024

GPA: 3.64

INSTRUMENT EXPERIENCE

FT-NMR Spectroscopy

FT-IR Spectroscopy

Gas Chromatography (GC/MS)

UV- Visible Spectroscopy

Mass Spectrometry

Exchange Chromatography

Bomb Calorimetry

Titration Techniques

Electrochemical Techniques

Wet Chemistry Equipment

HPLC

Flame Atomic Absorption Methods

CHEMISTRY RESEARCH

Honors Thesis Research

February 2022-Present

- Examine the general phenomenon of “Y-aromaticity”, a theoretical notion that has been a topic of debate for 30+ years
- Submit 12-page thesis proposal to Honors Program for approval on project that was written for understanding by a general audience

Summer Undergraduate Research Experience (SURE)

June 2022-August 2022

- Used GAUSSIAN 03 computational chemistry software to execute quantum theoretical calculations
- Presented progress in front of faculty and peers from a broad range of disciplines
- Earned stipend while working full-time on Honors Thesis research project

TEACHING EXPERIENCE

Elon University Chemistry Department, Elon, NC

August 2022-Present

Tutor

- Tutored students in general chemistry I/II, organic chemistry I/II, and calculus I/II/III
- Employed interactive techniques in teaching and assisted with homework
- Communicated with professors to brainstorm ways to improve students' performance

Teaching Assistant

February-December 2021

- Served as laboratory assistant in general chemistry I/II and organic chemistry I/II
- Taught students proper laboratory techniques and safety procedures
- Mixed and prepared chemicals and solutions for students

The Village Project, Alamance County, NC

June 2022-July 2022

Virtual Tutor

- Educated sophomore high-school students on the presence of systemic racism throughout American systems while challenging them to develop stronger reading comprehension and summarizing strategies with current news articles

LEADERSHIP EXPERIENCE

Intersect Diversity and Leadership Conference 2023, Elon, NC

March 2023-Present

Education Coordinator

- Collaborated with committee to recruit educational presenters, create schedules, and identify keynote speakers

Black Student Union of Elon University, Elon NC

March 2022-Present

VP of Community Outreach and Activism

- Oversee Community Outreach and Activism board to help bridge the gap between Elon students and the Alamance County community