

Adams Anita Houston

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Personal Profile

A PhD chemistry student at Wayne State University undertaking computational research on fluorescent bio molecules. I have 1+ year working experience in computational chemistry as a tool for the development of synthetically useful drug bio markers.

Education

Wayne State University

PhD in Physical Chemistry

Detroit-Michigan, USA

Sept 2022 - Current

Kwame Nkrumah University of Science and Technology

Bachelor of Science Chemistry-

- Graduated Magna Cum Laude

Kumasi, Ghana

Sept 2015 - June 2019

Work Experience

Wayne State University

Graduate Teaching Assistant

- Supervision and mentoring of freshmen students in General Chemistry laboratory sections
- Grading and daily assessment of students lab reports
- **Soft Skills:** Teamwork, Time Management, Communication, Presentation skills.

Detroit, Michigan

Sept 2021 - Present

Noguchi Memorial Institute for Medical Research

Research Assistant, Virology Department

- RNA extraction of human influenza and corona viruses
- Sample collection and registration, Polymerase chain reaction analysis and Gel electrophoresis
- Cancer studies, gene sequencing and heavy metal analysis
- **Soft Skills:** Teamwork, Time Management, Communication, Presentation skills.

Legon-Accra, Ghana

Sept 2019 - Aug 2022

Homefoods Ghana Limited

In process quality control officer

- Monitor operations to ensure that they meet production standards
- Recommend adjustments to the assembly or production process Designed to be flexible to any case with low time complexity compared to the existing models which were only useful in specific scenarios
- Inspect, test and measure materials or products being produced
- **Soft Skills:** Leadership, Time Management, Communication, Logical Thinking.

Odorkor-Accra, Ghana

June 2017 - Jan 2018

Skills

Programming Linux, Shell (Bash/Zsh), \LaTeX (Overleaf/R Markdown)

Soft Skills Microsoft office, Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentation.

Publications

1. Grace Arhin, **Anita Houston Adams**, Ernest Opoku, Richard Tia, Evans Adei,(2019), 1, 3-Dipolar cycloaddition reactions of selected 1,3-dipoles with 7-isopropylidenenorbornadiene and follow-up thermolytic cleavage: A computational study, Journal of Molecular Graphics and Modelling, 92

2. Opoku Ernest, Arhin Grace and Pipim George Baffour, **Adams Anita Houston** and Tia Richard and Adei Evans, (2020) Site-, enantio- and stereo-selectivities of the 1,3-dipolar cycloaddition reactions of oxanorbornadiene with C,N-disubstituted nitrones and dimethyl nitrilimines: A DFT mechanistic study, Theoretical Chemistry Accounts, 139

Interests

- Cooking** I love cooking. I am an expert in most Ghanaian-style cooking, enjoy baking and making my own cake and pastries.
- Computational modelling** I have strong desire to build stuff using computational software tools, Spartan being the first tool I used for my research.
- Art** I have always enjoyed drawing since I was a child.
- Video Games** I always had the gaming gene. I mostly play on my phone and occasionally on my switch.
- Swimming** I started swimming when I was 12. Going through submerged things while holding my breath was the most exciting part.
- Fashion** I love to dress in a variety of Ghanaian outfits especially the local kente cloth with some gold plated beads and necklaces

Languages

- English** Professional proficiency
- Fante** Native proficiency
- French** Bilingual proficiency

References available upon request.