



# UCHENNA "UCHE" A. ANENE

PH.D. STUDENT, CHEMICAL ENGINEERING

## RESEARCH INTEREST

Multidisciplinary research, that bridges chemistry, chemical engineering, physics and materials science. Uses quantum mechanics and high-performance computers as a tool to study the chemical properties of material surfaces and the interface between materials to help understand, design and engineer new materials. Materials of interest include composites, polymers and metal-organic frameworks.

## EDUCATION

University of Connecticut,  
Ph.D. in Chemical Engineering,  
2021

Long Island University,  
Master of Science in Chemistry,  
2018

University of Toledo  
Bachelor of Science in Biology, 2014

## CONTACT

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## PUBLICATIONS & PRESENTATIONS

- **Anene, U. A.** and Alpay, S. P., (2019), "Adsorption Properties of Functionalized STAM-17-OEt Metal-Organic Framework with Density Functional Theory", National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE), St. Louis, MO, Oral Presentation
- Sahoo, T., **Anene, U. A.**, Alpay, S. P. and Nayak, S. K., (2019) "Electronic and Optical Properties of Zinc-Based Hybrid Organic-Inorganic Compounds for Ultraviolet Applications," (In Review)

## ORGANIZATIONS & HOBBIES

- STEM outreach, distance running, spinning, home improvement projects, spending time in NYC or my hometown Ohio
- American Chemistry Society (ACS) - Member
- American Institute of Chemical Engineers (AIChE) - Member
- The National Organization for the Professional - Member  
Advancement of Black Chemists and Chemical Engineers (NOBCChE) - Member
- National Society of Black Engineers (NSBE) - Member

## OUTREACH

- Oct. 2019, **NSBE Graduate Panel For NSBE Undergraduates**, Moderated for a graduate panel that shared their graduate experiences and provided mentorship to NSBE Undergraduates.
- Oct. 2019, **Research Connections**, Presented my research for an event intended to expose first and second year students to undergraduate research.
- Nov. 2019, **Sisters in Stem (SiS) Conference**, Volunteered at a workshop intended to introduce young traditionally underrepresented women to STEM.
- Dec. 2019, **UConn College Access and Preparation Program (UCAP)**, Volunteered at a workshop.
- June 2019, Helped **prepare proposals and grants** for EDOC to provide funding for their future initiatives
- May. 2019, Worked with colleagues to **create a course** that is intended to increase retention and ensure overall success of UConn's female engineering students by providing tools to help them develop a positive STEM identity and succeed as an undergraduate student, future leader and graduate student.