

# Connor Briggs

203 Whitmer Rd.  
Shippensburg, PA, 17257  
☎ +1-(717)-860-9342  
✉ cgbriggs99@gmail.com  
in connor-briggs-1ba514214  
🌐 cgbriggs99

## Research Interests

Applications of machine learning to quantum chemistry; inorganic chemistry.

## Education

2017–2022 **B.S. in Chemistry with Mathematics Minor**, *Virginia Tech*, Blacksburg, VA, 2.75 GPA.

Completed a bachelor's degree in chemistry. While taking classes, I also worked with Dr. Daniel Crawford's research group, where I contributed to the publication of one paper, and wrote thousands of lines of code.

2012–2017 **High School Diploma**, *Shippensburg Area Senior H.S.*, Shippensburg, PA.

During high school, I enrolled in several college courses in computer science, chemistry, physics, math, and electrical engineering.

## Employment History

05/2022 - **Student Researcher**, *Virginia Tech*, Blacksburg, VA, 24061.

07/2022 Led an individual research project under the supervision of Dr. Joseph Merola. Performed over 20 reactions and investigated the ring-opening reactions of several different substituted thiophenes. The study investigated over 10 different rings, and involved the synthesis of a common iridium catalyst.

05/2018 - **Salesperson**, *Sheetz*, Shippensburg, PA, 17257.

07/2021 Worked as a cashier, serving hundreds of customers daily.

## Skills

- Quantum Chemistry
- Computer Programming
- Analytical Chemistry
- Organic Chemistry
- Tutoring
- Inorganic Chemistry
- Machine Learning
- Physical Chemistry
- Advanced Mathematics
- Algorithms

## Awards

07/2022 **ACS Undergraduate Award in Inorganic Chemistry**, *ACS Division of Inorganic Chemistry*.

This award was given for my research on thiophene ring-opening reactions.

## Publications

Benjamin G. Peyton, Connor Briggs, Ruhee D'Cunha, Johannes T. Margraf, and T. Daniel Crawford. Machine-learning coupled cluster properties through a density tensor representation. *The Journal of Physical Chemistry A*, 124(23):4861–4871, 2020. PMID: 32412756.