

Connor Briggs

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Statement

Chemistry graduate from Virginia Tech with five years research experience. Motivated to learn. Strong attention to detail, and always with a positive attitude. Energetic personality. My documentation skills are strong from my background in computer programming. Work well in team oriented settings. Self-motivated and good at multi-tasking.

Education

- 08/2017 - **B.S. in Chemistry, Mathematics Minor**, Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, VA, 24060, GPA: 2.75.
05/2022 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. I also learned the importance of confidentiality in the sciences.
- 08/2013 - **High School Diploma**, Shippensburg Area Senior High School, Shippensburg, PA, 17257.
05/2017

Skills

- Polymer and Material Science
- Organic Chemistry
- Purification
- Analytical Chemistry
- Writing Documentation
- Laboratory Housekeeping
- Team-work
- Leadership
- Microsoft Office
- X-Ray Crystallography
- Chromatography (GC, HPLC)
- X-Ray Diffraction (XRD)
- Laboratory Record Keeping
- Instrumentation
- Written Communications
- Individual Work
- Performing Experiments
- Inorganic Chemistry

Work Experience

- 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. Also spent some time as a line cook, with high order accuracy and speed, rarely dipping below a success rate of 60%.

Awards

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

This award is given to undergraduate students who display excellence in inorganic chemistry, especially through research and coursework.

Projects

05/2022 - **Thiophene Ring Insertions**, *Virginia Tech*.

07/2022 In this project, I performed experiments to deduce the mechanics of a ring insertion reaction between tris(trimethylphosphine)(1,5-cyclooctadiene)iridium(I) chloride and several thiophene derivatives.

Selected 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.