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Connor Briggs

Statement

Chemistry student from Virginia Tech with five years research experience in quantum chemistry and inorganic chemistry. Familiar with techniques in both organic and inorganic synthesis. Able to use various software packages important to chemical research.

Education

2017-2022 **B.S. in Chemistry, Mathematics Minor**, *Virginia Polytechnic Institute and State University (Virginia Tech)*, Blacksburg, VA, 24060, GPA: 2.67.

2013-2017 **High School Diploma**, *Shippensburg Area Senior High School*, Shippensburg, PA, 17257.

Skills

- C/C++: Advanced
- LaTeX: Advanced
- Linux Systems: Advanced
- Gaussian95: Familiar
- Inorganic Syntheses: Proficient
- Gas Chromatography: Proficient
- Laboratory Research: Proficient
- English: Native
- German: Proficient
- Python: Advanced
- Microsoft Office: Proficient
- Psi4: Proficient
- Organic Syntheses: Proficient
- Air-sensitive Manipulations: Proficient
- Chemical Characterization: Proficient
- Quantum Chemistry: Familiar
- French: Advanced

Work Experience

2018-2021 **Salesperson**, *Sheetz*, Shippensburg, PA, 17257.

Projects

2022 **Thiophene Ring Insertions**, *Virginia Tech.*
In this project, I investigated 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.