

Connor Briggs

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🐱 <https://github.com/cgbiggs99>

Research Interests

I am interested in developing mathematical models for quantum chemistry, including those using machine learning. I am also interested in the implementation of algorithms for quantum chemistry, especially on novel hardware.

Education

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

2012–2017 **High School Diploma**, *Shippensburg Area Senior High School*, Shippensburg, Pennsylvania.

During high school, I enrolled in several A.P. and college courses in computer science, chemistry, physics, math, and electrical engineering. I was also a member of the French Honor's Society

Research Experience

2017–2022 **Undergraduate Research**, *Virginia Tech*, Blacksburg, Virginia.

Worked under Dr. T. Daniel Crawford in his theory lab at Virginia Tech assisting in computations and writing code for research.

Languages

English Native speaker

French Conversational proficiency

German Conversational proficiency

Esperanto Conversational proficiency

Self-taught

Technical Skills

Languages C/C++, Python, CUDA C/C++, GNU Make, Bash, Java, L^AT_EX, T_EX, FORTRAN, x86 Assembler, Common Lisp

Operating Systems GNU/Linux (Debian, Ubuntu, Linux Mint, CentOS), Windows

Software Psi4, Gaussian, QCFractal, Git, Microsoft Office Suite, Google Office Suite

Teaching Experience

2015–2020 **Tutoring.**

Tutored several students in chemistry and mathematics.

Employment History

- 2018–2021 **Salesperson**, *Sheetz*, Shippensburg, Pennsylvania.
Prepared food, handled transactions, and handled maintenance jobs around the store.

Awards

- 2016 **Eagle Scout**, *Boy Scouts of America*, Troop 121, Shippensburg, Pennsylvania.
I assisted my local church in restoring historical artifacts and placing them on display.
- 2014 **Volunteer Service Award**, *Chambersburg Hospital*, Chambersburg, Pennsylvania.
I volunteered as a messenger for the Chambersburg Hospital. Awarded for accruing 500 service hours.

Media Appearances

- 2016 **Shippensburg News-Chronicle**.
The Shippensburg News-Chronicle ran a story about my Eagle Scout project.

Publications

Benjamin G. Peyton, Connor Briggs, Ruhee DâĂŽCunha, 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.