

# STEPHEN R. DUNCANSON

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## EDUCATION

University of Connecticut

2019 - PRESENT

*Computer Engineering*

- 3.9 GPA
  - Dean's List
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## EXPERIENCE

Berrah Laser Lab

SPRING & SUMMER 2020

*Undergraduate Research Programmer*

- Implemented a digital constant fraction discriminator in Python to accurately measure time of flight of Argon cations.
- Wrote many Python scripts for data analysis, HDF5 file access, plotting.

Computational Soft Matter Physics Group

FALL 2019

*Undergraduate Research Programmer*

As part of the development of an object-oriented liquid crystal simulation:

- Implemented the Metropolis-Hastings algorithm, and a k-d tree in Python.
- Wrote scripts to visualize simulation steps using VMD.

RACE Coastal Engineering

SUMMER 2019

*Engineering Intern*

- Developed a GUI program to retrieve historical aerial photography using Python, Tkinter, KML.
- Wrote numerous scripts to maintain engineering records and generate file system reports using Python (and the openpyxl library).