

ADELINE SOUTHARD

atsout@hotmail.com

EDUCATION

University of Vermont

Masters of Science, Complex Systems & Data Science

August 2023 - Current

University of Massachusetts Amherst

Bachelor of Science, Biology

August 2019 - May 2023

GPA: 3.57

WORK EXPERIENCE

Electron Microscopy Core Facility, Amherst MA

Laboratory Intern

June 2022 - May 2023

- Wrote software using the OpenCV library in C++ for the purposes of filtering, identifying, collecting, and analyzing data in electron microscope images
- Prepared samples for scanning and transmission electron microscopes
- Used associated ThermoFisher software to operate microscopes
- Used ImageJ software for image analysis

Katz Lab, Amherst MA

Research Assistant

September 2021 - May 2022

- Used VAST Lite software to analyze electron microscopy images
- Collaborated with a team towards creating a brain connectome for *Berghia stephanieae* ganglia tissue

PROGRAMMING LANGUAGES

Python

C++

R

PL/SQL

ADDITIONAL SKILLS

Jupyter Notebook

LaTeX Document Preparation

Markdown

Microsoft Office: Word, Excel, PowerPoint