

Alexander Hepburn

Corning, NY 14830

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Detail-oriented recent college graduate with a Bachelors in Physics and Mathematics (3.97 GPA), with 3+ years of work experience. Ability to leverage academic experience and a proven knowledge of research and development, mathematics/physics, and programming to successfully fulfill any role. Frequently praised as adaptable by my peers, I can be relied upon to help your company achieve its goals.

Work Experience

Mathematics Tutor

SUNY Plattsburgh - Plattsburgh, NY

February 2020 to May 2020

- Tutored in large variety of lower to upper level mathematics courses
- Effectively communicated hard and abstract ideas to students

Differential Equations Modeling Research

SUNY Plattsburgh - Plattsburgh, NY

September 2018 to May 2020

- Analyzed Differential Equations of point on geometric surfaces analytically and numerically
- Developed Python scripts for numerical calculations
- Examined this in relation to Bird Migration

Lead Rock Climbing Wall Supervisor

SUNY Plattsburgh - Plattsburgh, NY

September 2017 to May 2020

- Maintained a climbing wall gym by providing safe and exciting experience for any person
- Managed team of supervisors and directly met with gym manager

Machine Learning and Modeling Internship

SUNY Plattsburgh - Corning, NY

June 2019 to August 2019

- Developed multiple Python and MATLAB scripts to use machine learning in material design/discovery
- Incorporated Neural Networks, Gaussian Process ML, and Hyperparameter Optimization
- Developed Agent Based Modeling scripts in Netlogo for materials

Surface Plasmon Resonance Research

SUNY Plattsburgh - Plattsburgh, NY

February 2018 to May 2019

- Enhanced experimental procedures to study surface plasmon resonance in thin films
- Analyzed data with statistical and physical modeling

Education

B.S. in Physics, Mathematics

SUNY PLATTSBURGH - Plattsburgh, NY

May 2020

Skills

- SQL
- Microsoft Office
- Mathematics
- Data Analytics
- Computer Modeling
- Python
- C/C++
- Linux/Unix
- Differential equations
- MATLAB
- Git