

Dominic Daprano

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EDUCATION

Oregon State University

2018-Present

3.96 GPA

B.S. Computational Physics and B.S. Mathematics

Minor Computer Science

Anticipated completion June, 2022

RESEARCH EXPERIENCE

Oregon State University Chemistry Department

September 2021 - Present

Researcher

Corvallis, Oregon

- Designing programs to utilize fragmented Localization-Delocalization Matrices to predict molecule properties and generate new molecules.

Center For Qualitative Life Sciences

July 2019 - Present

Undergraduate Computational Scientist

Corvallis, Oregon

- Created [pipeline](#) to process data for the [WWWPIC](#) collaborative project.
- Leveraged XSEDE's cloud infrastructure to segment and classify hundreds of terabytes of video data efficiently.
- Developed visualization [website](#) by utilizing OmnisciDB, Crossfilter.js, and D3.js.
- Developed OpenCV segmentation utility to automate the processing of video data collected during cruises.

nexTC

June 2021 - September 2021

Lab Assistant

Corvallis, Oregon

- Studied and implemented processing techniques to make cheaper and better visibly transparent and electrically conductive thin films.
- Collected sample data using Ellipsometry and 4-point probe.

Oregon State University Graphics Department

July 2018 - June 2019

Research Assistant

Corvallis, Oregon

- Researched modeling snow by looking into different descriptions of motion.
- Studied the Finite Element and Material Point Methods for their applications in modeling snow particles.

TECHNICAL SKILLS

Programming	C++, Python, JavaScript, Java and Bash
Libraries	PyTorch, OpenCV, OpenMP, NumPy and Vue.js
Mathematics	Linear Algebra, Numerical Analysis and Differential Equations
Other	SLURM, SGE, Git, Linux, SQL, and Latex

AWARDS AND HONORS

Botand Gabor Eross Math Memorial Scholarship	June 2021
Scholarship derived from faculty nominations that recognizes excellent academic achievements in mathematics.	
SURE Scholarship Recipient	June 2021
Summer research funding provided to help support students in STEM fields.	
Dean's List	Fall 2018 - Present
Completed at least 12 graded credit hours with a 3.5 GPA or higher in each term.	

EXTRACURRICULARS

Astronomy Club	2018 - Present
<i>Outreach Officer</i>	
Planned meetings and maintained telescopes. Led public outreach by working with other organizations to expand and diversify club membership.	