

# Devin Short

PhD Candidate

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## PROJECTS

**bibliograph**, [pypi.org/project/bibliograph/](https://pypi.org/project/bibliograph/)

- Developed a novel database system for researchers who study a wide variety of sources
- Unique data model allows recovery of information destroyed by data cleaning
- Used: Python, pandas
- Presentation: [youtu.be/jkQqDcneiww?t=1233](https://youtu.be/jkQqDcneiww?t=1233)

**Mass spectrometer (Master's student, SFU)**

- Developed control, high voltage, and vacuum systems for a new atomic mass spectrometer used in fundamental studies in nuclear physics
- Developed Monte Carlo simulations of ion motion
- Implemented data acquisition, analysis, and reporting for mass measurements
- Used: Python, scipy, lua, COMSOL, Inventor
- Thesis: [summit.sfu.ca/item/18495](https://summit.sfu.ca/item/18495)

**Laser amplifier (Internship, Berkeley National Lab)**

- Developed nonlinear optical amplifier for ultrafast laser spectroscopy in materials science
- Used: CorelDraw, Mathematica

**Gamma ray spectroscopy (Undergrad, UW CENPA)**

- Developed accelerator beamline and detector system for nuclear physics experiment, operated accelerator
- Acquired and analyzed data, including Monte Carlo simulation of detector system
- Used: Python, scipy, gnuplot, FORTRAN, AutoCAD

## SKILLS

Python  
(pandas, scipy)

Data analysis

Data visualization

Science communication

## EDUCATION

University of Washington  
PhD History of Science,  
Climate science  
certificate,  
Expected 2023

University of Washington  
MA History of Science,  
2018

Simon Fraser University  
MSc Chemistry, 2018

University of Washington  
BSc Physics, 2012

## INTERESTS

Woodworking  
Cycling