Devin Short

PhD Candidate

Seattle, WA 98105
(206) 482-8037
shortda@uw.edu
shortorian.github.io
github.com/shortorian

PROJECTS

bibliograph, pypi.org/project/bibliograph/
- Developed a novel database system for qualitative research with text-based sources
- Unique data model allows graph representations of data associated with multiple input sources
- Used: Python, pandas

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
- Poster: tinyurl.com/mrxxsb88
- Thesis: 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
- Poster: tinyurl.com/56erfukb

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
- Poster: tinyurl.com/3fzen97c

SKILLS

Python
(pandas, scipy)

Data analysis

Data visualization

Science communication

EDUCATION

University of Washington
PhD History of Science, 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
(worked as mechanic)