

EARTH AND OCEAN SCIENCES (GRADUATE)

Email dcroft@uvic.ca
 123 Main Street, Victoria, BC V8V 3V3
 250-555-1234

EDUCATION

- **Combined Physics and Earth Science** Sep 2005 – April 2012
- University of Victoria

SKILLS

Data Analysis and Programming

Experience in using Matlab, Loggerpro, Graphical Analysis, Excel and Grav2 to solve inverse problems, work with time series data and analyze experimental data collected in a laboratory setting or as part of a geophysical survey. Also, familiarity with programming in bash shell.

Geophysical Surveying

Course work has involved the use of GPS, Map Reading, Lacoste–Romberg gravimeters, Magnetometers, Geonics EM–31 Electronic Conductivity Meter, Geophones and Seismographs to complete various types of surveys.

Geophysics and Physics Theory

Course work in seismic tomography, ray theory, inverse theory, continuum mechanics with tensor calculus and electromagnetic theory.

Rock Identification

I have learned to distinguish rock types and mineral assemblages in both hand samples and through the use of thin section microscopes.

Interpersonal Skills

I have some management experience but also have the ability to perform tasks independently. I have good communication skills and a strong work ethic. Organization is also one of my assets.

WORK EXPERIENCE

Petrophysics Lab Assistant

January 2012 - Present

Natural Resources Canada - Pacific Geoscience Centre

Responsibilities

- Measure the complex impedance of rock samples as a function of the frequency for an applied AC signal.
- Link the frequency domain impedance graphs to the lithology of rock samples.
- Research methods of improving the current laboratory procedure and analysis methods.

Education Development Assistant

September 2011 – December 2011

Ocean Networks Canada, Victoria, BC

Responsibilities

- Catalog all oceanographic sensor data collected by the VENUS and NEPTUNE Canada arrays.
- Assess the viability of employing these data as part of the ocean sciences curriculum at UVic.

Ground Deformation Geoscience Volunteer

May 2011 – August 2011

United–States Geological Survey
Hawaiian Volcanoes Observatory

Projects:

- Devised and performed experiments on Lacoste–Romberg gravimeters to determine the validity of applying tilt corrections to future collected data.
- Used bash shell and Matlab to write programs responsible for processing and performing time series analysis on continuous gravity data.

Oceanographic Data Analyst

September 2010 – December 2010

ASL Environmental Sciences

Duties:

- Analyzing incoming time series data collected by upward looking sonar.
- Making corrections to the values in the original time series using meteorological and sensory data.
- Creating an accurate ice draft time series and spatial series with the data provided.

Skills:

- Familiarity in Matlab programming.
- Use of Microsoft Office Excel.

Snow Survey Analyst Co-op Student

June 2010 – August 2010

BC Ministry of Environment: Water Stewardship Division

Duties:

- Creating a computer database system for entering and storing snow survey data.
- Creating a detailed analysis of current snow course data collection methods.
- Recording incoming snow survey data from around the province.
- Updated hydrometric forecasting models used to quantify river flow.

REFERENCES

Richard Scott, Manager, Communications
ONCCEE
rscott@onccee.ca 250-555-1234

Stuart Duncan, Professor of Geophysics
School of Earth & Ocean Sciences
sdunc@uvic.ca 250-555-1234