

EARTH AND OCEAN SCIENCES (FOURTH YEAR)

GEO ROCKS

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OBJECTIVE

To take on a challenging position in mineral and geophysical exploration and contribute to important and interesting research by applying and building upon previous experience.

EDUCATION

Combined Major in Physics and Earth Sciences (Geophysics) University of Victoria Victoria, BC, Canada	Sep 2009 – Present
Bachelor of Arts– University Transfer Mount Royal College Calgary, AB, Canada	Sep 2006 – May 2009

SKILLS AND ABILITIES

Technical Skills

- Satellite and airborne image processing and analysis: Hyperspectral and InSAR
- Envi and PCI Geomatics image analysis software
- Java programming
- Linux, Windows XP and Mac OS
- Experience with productivity software programs
- Data cataloging
- Geometric, kinematic and dynamic analysis of deformation structures in rock bodies at different scales, in both brittle and ductile regimes
- Geology, physics and chemistry laboratory skills such as data collection and processing, the use of uncertainties and typical physics and chemistry laboratory equipment

Communication Skills

- Communicate effectively with team members as shown in contributing to the Deformation Team's objectives at the Hawaiian Volcano Observatory, as well as working within the team atmosphere of the Advanced Forest Technologies Lab
- Comfortable with public speaking– shown when required to give presentations concerning work term experience
- Clear and concise writing style, as demonstrated through publication of research material with the Advanced Forestry Technologies Lab

WORK EXPERIENCE

Remote Sensing & GIS Technical Summer Student Nexen Inc. Calgary, Alberta, Canada	May 2010 – Present
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Responsibilities:

- Acquire USGS EO-1 Hyperion hyperspectral image data and perform processing and mineral mapping
- Examine known geothermally active areas in order to identify and map the distributions of geothermal indicator minerals

Accomplishments:

- Successfully used hyperspectral data to create mineral maps of geothermally active areas and demonstrated the limits of spatial resolution at which it can be accomplished.
- Gained knowledge and experience with ArcGIS.

Research Assistant

May 2009 – Aug 2009

NRCAN Forestry
Pacific Forestry Center, Victoria, British Columbia

Responsibilities:

- Processed and analyzed previously acquired airborne hyperspectral images (AVIRIS and AISA sensors) in order to better understand and improve the utilization of hyperspectral imagery for use in land cover and forest species identification, health and monitoring.
- Contributed to published research paper composition as well as created the respective conference presentations.

Accomplishments:

- Became proficient in the use the image analysis program ENVI as well as limited experience with PCI Geomatics Software.
- Gained knowledge of airborne based remote sensing techniques.

HVO Deformation Team Research Assistant

Apr 2008 – Aug 2008

United States Geological Survey
Hawaiian Volcano Observatory (HVO)

Responsibilities:

- Ordered, processed and analyzed all Envisat satellite interferometry data acquired for the Big Island of Hawai'i, as well as from other global volcanic locations. The data was processed in order to create satellite images and subsequent interferograms so as to analyze ground deformation occurring due to volcanic activity.
- Processing was also done in order to "unwrap" the images to render areas of high signal scattering useful.
- Tracked and cataloged strain data for pressure variations and other factors, and then assembled time series of the data that could be accessed online by HVO staff.
- Contributed to numerous field work projects including "continuous" and "kinematic" GPS surveys, leveling surveys and gravity surveys.

Accomplishments:

- Attained a good understanding of the Envisat satellite's data acquisition process.
- Acquired computer programming skills, including thorough knowledge of the Linux operating system.

PUBLICATIONS

D. Thatguy, K. O. Scientist, G. S. Smartyants, G. Rocks. 2009. Comparison of AVIRIS and AISA for Chemistry Mapping. IGARSS. Cape Town, South Africa.

D. Thatguy, K.O. Scientist, G.S. Smartyants, G. Rocks, 2009. Mapping the Health of Forests. CSRS. Lethbridge, Alberta. June 22–26

VOLUNTEER EXPERIENCE**Assistant Figure Skating Coach and Choreographer**

Jan 2004 – Present

Lake Bonavista Figure Skating Association and UVic Figure Skating Club
Calgary, Alberta and Victoria, British Columbia

- Assisted in coaching athletes on both technique and artistry.

Traffic and Parking Coordinator

Jul 2009 – Jul 2009

Organic Islands
Glendale Gardens, Victoria, British Columbia

Responsibilities:

- Directed vehicular and bicycle traffic.
- Constructed and supervised parking lot layout

ACTIVITIES AND INTERESTS

- Outdoor rock climbing in the Rockies, backpacking through mountain terrain, hiking, whitewater kayaking, cross-country skiing
- Competitive figure skating at the semi-national level for 8 years in two disciplines– ice dancing and freeskate
- Classical ballet training for eleven years, along with numerous other styles of dance
- Two years Classical voice training and competition
- Ballroom and Argentine Tango dancing
- Reading historical fiction/adventure novels

REFERENCES

John Somebody

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United States Geological Survey
Hawaiian Volcano Observatory
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