

Mary Smulders

SPAR Lab, Dept. of Geography,
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Education:

University of Victoria

Current
Victoria, BC

- Master of Science (Geography) candidate
- Geography Graduate Representative in the Graduate Student Society

Centre of Geographic Sciences (COGS)

2007
Lawrencetown, NS

- Post-Graduate Diploma (Advanced GIS)
- Graduated first in my class

Saint Mary's University

2006
Halifax, NS

- Bachelor of Arts (Geography)
- Academic Scholarships and Dean's List recognition throughout
- Co-President of the Saint Mary's Geographical Society in final year

Work-Related Experience:

Conference Presentation

- Smulders, M., & Nelson, T. (2008). Quantifying the impacts of landscape disturbance on the spatial pattern of grizzly bear habitat use. *Spatial Knowledge & Information*. Feb. 15-17; Fernie, BC.

GIS Research Assistant

Edge detection methods (2008)

- In conjunction with the Pacific Forestry Centre, examined methods of creating an automated edge detection algorithm to determine varying strengths of edges within forestry crown closure data

Grizzly bear health mapping (2008)

- Analyzed spatial variations in grizzly bear health using local statistics to identify areas where the population is susceptible and those where it is strong

North Baffin Island telemetry scripting (2007)

- Generated a series of scripts to read and map wildlife (muskox and caribou) radio telemetry data
- Scripts used conditional logic to map the statistical functions requested by the user

Saint Mary's University urban planning (2006)

- Created a collection of maps involving the Halifax Regional Municipality expansion plans, land cover, growth boundaries, lot developments, transportation routes, etc.

Teacher's Assistant

Geographic Information Sciences (GEOG328): University of Victoria (2008)

Advanced Topics in GIS (GEOG428): University of Victoria (2007)

Geography Statistics (GPY326): Saint Mary's University (2006)

- Taught and helped developed laboratory assignments; marked labs, test and exams

Academic Awards:

- The Derrick Sewell Graduate Scholarship 2008
- President's Research Scholarship 2007
- Industrial NSERC (partnered with Baffinland Mines Corporation) 2007
- University of Victoria Graduate Award 2007
- ESRI Academic Achievement Award 2007
- Geomatics Canada Scholarship Award 2007
- Saint Mary's University Achievement Scholarship 2005 – 2006
- Lakehead University Achievement Scholarship 2003 – 2004