Steven Frank Ross Brownlee

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Education

Bachelor of Science, General Studies with a Minor in English

University of British Columbia, Okanagan Campus (2011-2017)

Master of Geomatics for Environmental Management

University of British Columbia, Vancouver Campus (2018-2019)

Research Experience

September 2018 – May 2019, MGEM capstone project

University of British Columbia, Vancouver Campus

Worked with Dr. Scott Hinch and Allison Hebert of UBC to develop a reproductive niche model for a rare ecotype of deepwater-spawning sockeye salmon in BC's Alouette Lake. Acquired field data from Allison Hebert and developed model in consultation with her, Dr. Hinch and technical advisors from the MGEM program.

April 2017 – August 2017, Undergraduate research assistant

University of British Columbia, Okanagan Campus

Continued fish infection study began in 2016 field season. Collected fish for sampling from lakes and rivers, preserved samples and brought back to lab for processing and examination for larvae under a microscope. Prepared report for provincial government on research findings.

April 2016 – August 2016, Undergraduate research assistant

University of British Columbia, Okanagan Campus

Began a field-based fish infection study for hosts of *Gonidea angulata*. Collected fish from lakes and rivers, euthanized fish and collected samples for processing and examination for larvae. Carried out surveys for further populations of *Gonidea angulata* in the Okanagan Valley using boats/snorkeling. Supervised a fellow undergraduate student in

assisting with the project, as well as in organizing and deploying funds in service of the project's goals. Helped write report for provincial government on research findings.

February 10-11 2016 – Contributor to Fisheries and Oceans Canada's Centre for Science Advice Pacific Regional Peer Review

Fisheries and Oceans Canada

Called to participate in a group meeting among identified experts from the provincial and federal governments tasked with drafting a working paper on the identification of critical habitat for *Gonidea angulata*.

April 2015 – August 2015, Undergraduate research assistant

University of British Columbia, Okanagan Campus

Assisted in the development and running of a lab fish infection study for hosts of *Gonidea angulata*. Collected fish for experiment from the field and helped run the aquarium/care for the fish used in the study as well as carry out the infection experiment. Took part in additional surveys in the Okanagan Valley for further populations of mussels via boat and snorkeling.

April 2014 – August 2014, Undergraduate research assistant

University of British Columbia, Okanagan Campus

Took part in graduate research that modeled habitat suitability for *Gonidea angulata* in Okanagan Lake. Surveyed throughout Okanagan Lake via boat and snorkeling, assisted in development of assessment methodology and experiments to determine flow regimes, water chemistry, temperature and other physical characteristics in the lakes and rivers of the Okanagan Valley.

April 2013 – August 2013, Undergraduate research assistant

University of British Columbia, Okanagan Campus

Hired as part of research project exploring the life history and reproduction of the Rocky Mountain ridged mussel, *Gonidea angulata*. Assisted in grid survey work in sites throughout the Okanagan and identification of mussels in the environment. Conducted juvenile recruitment transect surveys in the Okanagan via substrate analysis and in the collection of fish for an initial fish host population study.

Publications

Brownlee, S. Mageroy, J. and Walker, I. 2017. Rocky Mountain Ridged Mussel (*Gonidea angulata*) in the Okanagan Valley, British Columbia: Host fish field sampling and mussel surveys in 2017. University of British Columbia – Okanagan.

Practical Skills and Languages

Software: Microsoft PowerPoint, Word and Excel, R, MySQL, Python, ArcGIS, QGIS, ENVI, Conefor, FRAGSTATS, MaxEnt.

Language: English, Grade 11 French.

Miscellaneous: Canadian Pleasure Craft Operators' Card, Level 5 BC drivers' license, UBC-O Biological Safety Certification, CCAC/NIAUT Animal Care Certificate in the care of fish.

Awards and Scholarships

British Columbia Government Scholarship - 2011

- $1000, awarded based upon high school grades.

President's Entrance Scholarship - 2011

- $2500, awarded based upon high school grades.

Forestry Aboriginal Graduate Award – 2018

- $10 000, awarded upon entry to Master of Geomatics program.