

LINDSEY OGSTON

BIOLOGICAL SCIENCES

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Publications

Ogston, Lindsey. "**Detection techniques for salmon viral pathogens in seawater collected in British Columbia. Thesis.**" University of Toronto (2015).

Ogston, Lindsey, et al. "**Watershed-scale effectiveness of floodplain habitat restoration for juvenile coho salmon in the Chilliwack River, British Columbia.**" Canadian Journal of Fisheries and Aquatic Sciences (2014).

Ogston, Lindsey. "**Korea gone wild.**" The Peak (2009).

Education

University of Toronto - Master's of Science in Ecology and Evolutionary Biology

Supervised by Dr. Martin Krkosek and Dr. Steven Short
Graduated 2015 with a 4.0 GPA

Simon Fraser University - Bachelor of Science in Ecology and Evolutionary Biology

Graduated December 2010 with a 3.7 UDGPA

Teaching

University of Toronto – Teaching assistant

BIO 120 (Adaptation and Biodiversity) - Recipient of Teaching Assistant Award)
BIO 220 (Genomes to Ecosystems in a changing world)

Fall 2013, Fall 2014
Winter 2014

Relevant classes

Simon Fraser University

Fall 2010

Biodiversity

- Constructed and executed a journal quality article critique and an economist style summary article of a scientific paper; and received the top mark in the class.
- Added to basic knowledge of R through an R workshop and assignment examining the phylogeny of mouse

Bamfield Marine Sciences Centre

Summer 2010

Biodiversity of Seaweeds

- Carried out a small scale bull kelp (*Nereocystis luetkeana*) physiology group project presented in PowerPoint with statistics in SPSS; gained experience working with difficult team members.
- Executed a small scale individual research project exploring the diversity of diatoms living epiphytically on the sea star, *Pisaster ochraceus*; involved intermediate level usage of imaging technology and microscopy.
- Gained knowledge of correct field site usage protocol as samples were located in Huu ay aht First Nations land.
- Collected, identified and prepared algal sample for storage in herbarium.

Summer 2010

Ecology of Symbiosis

- Accomplished a small group research project examining the ratio of symbiotic green and brown algae (Zooxanthellae and Zoochlorellae) in two species of anemone (*Anthopleura xanthogrammica* and *Anthopleura elegantissima*) across three different habitats.
- Collaborated in a large group research project examining the ratio of symbiotic green and brown algae in the two species of anemone along a light gradient (transect was drawn through a cave).
- Took on a leadership role in above project, assigning both field sampling tasks and paper sections to thirteen people.
- Accomplished small group research project examining the diversity of trematode parasites in a species of Littorina snail (*Littorina sitkana*). Project involved a field survey, shedding the snails of parasites, parasite identification and a lab experiment comparing speeds of infected and uninfected snails.

Summer 2010

Terrestrial and Freshwater Conservation

- Performed a small group research project exploring impacts of salmon habitat restoration projects in a stream in Barkley Sound on the surrounding riparian zone.
- Involved extensive field sampling, lab analysis of soil, and statistical computation. Data was presented in thesis style paper format.
- Created an Environmental Impact Assessment for a hypothetical "Run of the River" project.
- Acquired stream and terrestrial sampling skills and techniques and executed avian, vascular plant, lichen, moss and fish identification.

Summer 2009

Coastal Community Ecology

- Collaborated in a group small scale research project quantifying the abundance the novel phenomenon of western hemlock (*Tsuga heterophylla*) epiphytes on western red cedar (*Thuja plicata*) trees.
- Compiled data on a poster, and presented it

- Executed an individual small scale project examining the novel conspecific escape response of the sun star, *Pycnopodia helianthoides*.
 - Performed both a snorkel-based field survey and a behavior quantifying lab experiment.
 - Collaborated with four other students quantifying the diversity of different tidal zones through collection of both presence/absence and percent cover data and presented the results in Powerpoint.
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Experience

Simon Fraser University - Research Assistant (supervised by John Reynolds) *Spring and summer 2011*

- Collected baseline data for a multi season project examining the importance of salmon derived nutrients on the riparian salmonberry shrub, *Rubus spectabilis*.

Simon Fraser University - Laboratory Assistant (supervised by John Reynolds) *Fall 2010*

- Performed over 20 hours of vertebrate dissections on two different species of sculpin (*Cottus aleuticus* and *Cottus asper*) removed livers, stomachs and fin clips, and prepared samples for nitrogen analysis.
- Dried and weighed salmon eggs, then packaged and prepared samples for nitrogen analysis.

Simon Fraser University - Research Assistant (supervised by Mike Hart) *Winter and spring 2009*

- Accomplished a semester-long research project with Dr. Mike Hart quantifying colour polymorphism in three populations of the bat star, *Patiria miniata*.
 - Organized trips to field sampling locations in Bodega Bay and Monterey, California and Bamfield B.C.
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Awards

University of Toronto

Reino S. Freeman Fellowship

Winter 2014

Simon Fraser University

VPR USRA scholarship
Entrance Scholarship

*Winter 2011
2006-2007*