

RENEE LARSEN

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EDUCATION

M.Sc., Earth and Environmental Science 2020 - Present
University of British Columbia – Okanagan
Concentration: Wildfire Modelling
Supervisors: Dr. Mathieu Bourbonnais and Dr. Lael Parrot

Honours B.Sc., Earth and Environmental Science 2015-2020
Minor: Chemistry
University of British Columbia – Okanagan
Concentration: Aquatic Sciences and Environmental Chemistry
Thesis: "Historical analysis of shifts in the snowmelt freshet peak of small, undisturbed basins in the southern Interior Plateau of British Columbia."

AWARDS

Graduate Dean's Entrance Scholarship Sept. 2020
University of British Columbia

Alexander Graham Bell Canada Graduate Scholarship - Master's (NSERC) May 2020
University of Alberta Declined

Walter H Johns Graduate Fellowship May 2020
University of Alberta Declined

Logan Student Prize for Excellence in Geosciences Feb. 2019 - Feb. 2020
University of British Columbia

Dean's List Sept. 2018 - Apr. 2019
University of British Columbia

Deputy Vice-Chancellor Scholarship for Continuing Studies Sept. 2018 - Apr. 2019
University of British Columbia Sept. 2017 - Apr. 2018

Chancellor Scholar Award Sept. 2015 - Apr. 2015
University of British Columbia

RESEARCH EXPERIENCE

Graduate Research Assistant Sept. 2020 - Present
University of British Columbia
Supervisors: Dr. Lael Parrot and Dr. Mathieu Bourbonnais

- Currently conducting research on the social and ecological impacts of wildfire mitigation
- Responsible for building an agent-based model to analyze these impacts
- Will organize multiple stakeholder meetings to better understand community values related to wildfire

Honours Thesis

Sept 2018 – 2019

University of British Columbia

Supervisor: Dr. Fes de Scally

- Used various statistical methods to conduct a historical analysis of temporal trends in the snowmelt freshet peak of small, undisturbed basins in the southern Interior Plateau of British Columbia

Undergraduate Research Assistant

May 2018 – Oct. 2018

University of British Columbia

Supervisor: Dr. Jeff Curtis and Megan Ludwig

- Assisted with a research project focusing on the identification of source(s) and transport mechanisms of nutrients in the Shuswap Watershed by independently collecting stream and groundwater samples and flow data to conduct analysis on.
- Conducted laboratory analysis via the colorimetric method and ICP-OES to determine concentrations of nitrogen, phosphorus and heavy metals in samples and interpreted data.

TEACHING EXPERIENCE**The University of British Columbia**, Department of Earth, Environmental and Geographic Sciences*Graduate Teaching Assistant*

Sept. 2020 - Present

- Marked midterms and assignments for EESC 303: Oceanography and EESC 101: Environmental Science
- Currently teaching EESC 111: Earth Science Laboratory and marking assessments
- Assisted with administration tasks including creating lab video transcripts and creating a summary of the TA training course for returning TAs

Undergraduate Teaching Assistant

Sept. 2017 – April 2020

- Led or assisted in teaching lab sections for EESC 111: Earth Science; GEOG 108: Earth Systems: Weather, Climate, Life; GEOG 109: Earth Systems: Landscape Dynamics; and EESC 121: Earth History
- Lectured on important concepts and facilitated discussions enabling students to learn course material effectively
- Functioned as a liaison between professor and students by answering questions and preparing students for lab exams

PROFESSIONAL EXPERIENCE**Student Park Ranger Crew Lead**

May 2020 – Aug 2020

BC Parks

- Responsible for managing a crew of 3 student park rangers
- Created safety plans for various projects carried out in the parks and aided in project organization
- Led conservation projects including conducting invasive plant surveys, bat monitoring, and long term-ecological monitoring

Volunteer Field Assistant

Jun. 2019 – Aug. 2019

University of British Columbia

- Assisted MSc. student with data collection for thesis by conducting cross-sectional surveys of study river

Precambrian Junior Geological Assistant

May 2017 – Aug. 2017

Saskatchewan Geological Survey

- Aided project geologists with bedrock mapping including traverse navigation, sample collection, and structural measurements to complete research in study area
- Organized and input data to allow for easy interpretation by project geologists

SERVICE**EEGS Seminar Committee Member**

Oct. 2020 – Present

University of British Columbia

- Aided in the selection of speakers for seminar series
- Introduced seminar speakers

TECHNICAL SKILLS AND CERTIFICATIONS

Lab & Field Equipment: Engineer's surveying equipment, stream flow meters and multimeters, handheld GPS units, handheld gamma spectrometer, magnetic susceptibility meter, gas chromatograph, high performance liquid chromatograph, infrared spectrometer, x-ray fluorescence, atomic and fluorescence absorbance spectrometers, ICP-OES spectrometers, oxygen meter, salinity and conductivity meter, Van Veen grab sampler

Computer Software: Excel, Word, PowerPoint, ArcGIS, RStudio, NetLogo, Python

Certifications: Class 5 Drivers License, Possession and Acquisition License, Pleasure Craft Operators License, Occupational First Aid (Level 1) and Transportations Endorsement, Wilderness First Aid, WHMIS Safety Training, Chemical Lab Safety, Privacy and Information Security – Fundamentals, Foundations Certificate - TA Credentialing

PRESENTATIONS

Historical analysis of temporal trends in the snowmelt freshet peak of small, undisturbed basins in the southern Interior Plateau of British Columbia. Mar. 2019

14th Annual Undergraduate Research Conference, University of British Columbia - Okanagan

PUBLICATIONS**Working Papers**

1. First Listed Author. (Renee Larsen, Fes de Scally). (2021). Historical analysis of shifts in the snowmelt freshet peak of small, undisturbed basins in the southern Interior Plateau of British Columbia.

WORKSHOP PARTICIPATION

Participant Nov. 2019
British Columbia Environmental Assessment Act Workshop

Participant Nov. 2019
Canada's Impact Assessment Act Workshop

VOLUNTEER ACTIVITIES**Executive Member**

Mar. 2016 – Jan. 2019

Varsity Outdoor Club Okanagan

- Acted as Alpine Club of Canada Representative, Treasurer, and Gear Master.
- Aided in club promotion and the organization of several club events.

Ski Patroller

Sep. 2016 – Apr. 2018

Canadian Ski Patrol

Sep. 2012 – Apr. 2013

- Provided first aid care to injured public at Big White Ski Resort and Mission Ridge Ski Resort.

REFERENCES

Stuart MacKinnon

Lab Manager for Earth & Environmental
and Geographical Sciences
University of British Columbia, Okanagan
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(250)-807-9405
Relationship: Current employer

Samantha Van De Kerckhove

Precambrian Research Geologist
Saskatchewan Geological Survey
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Samantha.Vandekerckhove@gov.sk.ca
Relationship: Previous employer

Dr. Jeff Curtis

Associate Professor
University of British Columbia, Okanagan
(250) 807-9521
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Relationship: Professor and previous
employer

Dr. Fes de Scally

Associate Professor
University of British Columbia, Okanagan
(250) 448-7573
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Relationship: Previous professor and
honours thesis supervisor