

Education

- Master's in Resource and Environmental Management**, Simon Fraser University (SFU), BC
CGPA: 3.95 2018 - present
- B.Sc, Honors in Ecology**, Minor in Multidisc. Studies in Science, Concordia University, QC
CGPA: 4.04 (out of 4.3 system) 2018
- High School Diploma**, Chemainus Secondary School, Chemainus, BC 2013

Research Experience

- Sockeye Salmon Estuary Energetics**, David Patterson, Dr. Jonathan Moore, SFU 2018 - present
For my Master's thesis, I am researching how the physiological condition of sockeye salmon smolts impacts swim ability and habitat selection throughout the downstream migration corridor, from lake to estuary to ocean.
- Social-Ecological Resilience of Pacific Sea Gardens**, Anne Salomon, SFU 2020
In collaboration with Indigenous practitioners and researchers across the Pacific Ocean, our research group is documenting how traditional harvest and restoration of sea gardens has lent to social-ecological resilience of the past and to inform the present state of coastal resource management.
- Salmon Migration Physiology**, Fraser River, BC 2019
In response to the landslide within the Fraser River watershed, I was stationed at the Big Bar emergency response field station to monitor adult salmon physiological condition and migration success. Tasks included acoustic tagging of adult salmon, set-up and monitoring of receiver and sonar stations, physiological sampling from salmon at site, such as blood and plasma extraction, fin clips for DNA, and whole-body lipid measurements.
- Mammal Use of Highway Underpasses**, Dr. Jochen Jaeger, Concordia University 2017
In collaboration with the Ministry of Transport of Quebec, and the not-for-profit conservation group, Corridor Appalachian, I led a research project monitoring mammal use of underpasses below a high traffic highway bisecting the essential wildlife corridor of the Northern Appalachian region, QC. This research is currently being prepared for submission.
- Parasitism in Odonates**, Dr. J.P. Lessard, Concordia University 2016
During my honor's thesis, I examined how parasitism of dragonfly and damselfly communities is constrained by host evolutionary history, lake vegetation, and climatic variables. This research has been submitted as a manuscript to the Journal of Function Ecology.
- Immunology of Nanoparticle Pollution**, Dr. Peter Darlington, Concordia University. 2015
As part of my Minor in Multi-disciplinary Sciences, I conducted an experiment on the immunological effect on a human cell line to ceria nanoparticle application.

Awards

- Federal Master's Scholarship, CGSM, NSERC, Canada 2019
- Provincial Master's Scholarship, FRQNT, Quebec 2018
- Graduate Fellowship, Resource and Environmental Management 2018
- Graduate Entrance Scholarship, Simon Fraser University 2018
- Concordia Undergraduate Science Research Award, Concordia University 2017
- Undergraduate Science Research Award, NSERC, Concordia University 2016
- Biodiversity Science Discovery Award, Québec Centre for Biodiversity Science 2016
- Carolyn and Richard Renaud In-Course Bursary, Concordia University 2016

Academic Outreach

- West Coast Estuaries Symposium Co-chair, Amer. Fisheries Society, Virtual Conference 2020
- Volunteer Group Leader, Girls in STEAM, Science World, Vancouver, BC 2019
- Carry-over Effects in Salmon Symposium Co-chair, AFS, Reno Nevada, USA 2019
- Graduate Student Society Student Representative, SFU 2019 - 2020
- Editorial Services - Reviewer, Journal of Marine and Coastal Fisheries 2019

Community Engagement and Volunteering

Vancouver Farmers Market, Vancouver, BC April 2020 – present

To help with access to local food sources and supporting local farmers during the COVID-19 pandemic, I began volunteering weekly with the VFM.

QUEST Food Exchange, Vancouver, BC 2020

The VFM provides access to local healthy food, however it is still inaccessible to low income families and individuals. To better understand and support those in need, I began volunteering weekly for QUEST, a not-for-profit organization that provides dignified access to a variety of affordable and healthy foods to individuals facing food security challenges in British Columbia.

Clam Garden Restoration Project, Gulf Islands National Park, Saanich, BC 2019

Through a collaboration between Gulf Islands National Park, Simon Fraser University & the Hulqu'im'inum Working Group, I assisted in restoration of traditional clam gardens throughout the Gulf Islands, as well as identification of bivalves, algae and intertidal invertebrates for ongoing biological monitoring.

Invasive Freshwater Invertebrates, Dr. Ricciardi, McGill University, QC 2017

I assisted with the collection of a species of invasive crayfish, *Orconectes rusticus*, from the Rouge River, Toronto, ON, for behavioral and physiological research.

Research Presentations

- Inter-departmental Ecology of Aquatic Sciences Symposium, SFU, BC 2019
 - Concordia Undergraduate Research Symposium, Concordia University, QC 2016, 2017
 - Ministry of Transport of Quebec, Appalachian Corridor, Austin, QC 2017
- Collaboration and presentation of directed research on efficiency of highway underpasses for mammal crossings to the Ministry of Transport of Quebec and the not-for-profit conservation group Corridor Appalachian.
- Quebec Centre for Biodiversity Science Annual Symposium, Montreal, QC 2017
 - Conference on Road Ecology and Climate Change Adaptation, Québec City, QC 2017
 - Sustainability Across Disciplines Conference, Concordia University, QC 2017
 - Association Francophone pour la Savoir, Montréal, QC 2017

Teaching Experience

Teaching Assistant, Applied Ecology and Sustainable Environments, SFU, BC 2019 - 2020

Qualifications & Training

- Wilderness First Aid, 50 hrs, Slipstream Mar. 2019 (exp. Mar. 2021)
- WHMIS Nov. 2019
- Class 5 Driver's License 2012
- French and English languages, oral and written
 - Experience with technical and academic writing, progress reports, public and academic presentations
- Data collection, management and analysis, R, Markdown, Github
- Spatial analysis and mapping, ArcGIS and qGIS

References

David Patterson, Program Head Environmental Watch Program, Science Branch, Fisheries and Oceans Canada (DFO) david.patterson@dfo-mpo.gc.ca

Dr. Jonathan Moore, Simon Fraser University, BC jwmoore@sfu.ca

Dr. Jochen Jaeger, Concordia University, QC jochen.jaeger@concordia.ca