

Larissa Thelin, MSc Candidate

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Current Highlights

- Master of Science student in the Department of Biological Sciences at the University of Alberta
- Previously a 2020 *Weston Family Northern Scientist* and a 2019 NSERC-CGSM recipient
- Extensive experience with R, ArcMap, GIS, and QGIS, specifically in fauna habitat modelling
- Published independent undergraduate research (in *The Canadian Geographer*, 2018)

Focus Areas

- **Research** – understanding new methods of habitat modelling in an attempt to analyze the potential impacts of climate change on our most vulnerable species
- **Teaching** – helping undergraduate students understand scientific topics and find their niche within the environmental fields of Ecology and Conservation
- **Science Communication** – educating the public on scientific theories, especially related to climate change, and illustrating ways to implement positive change in their everyday lives

Education

Present **Master of Science** (Biological Sciences), *University of Alberta* (Expected graduation: March 2022)
2017 **Bachelor of Arts** (Natural Resource Management, Geography), *Vancouver Island University*

Awards

2021 **University of Alberta Graduate Completion Scholarship**, University of Alberta (UAlberta; \$5,000)
Graduate Students' Association Academic Travel Grant, UAlberta (\$75)

2020 **Northern Scientific Training Program Grant**, UAlberta (\$1,700)
University of Alberta Northern Research Awards Grant, UAlberta (\$1,000)
Weston Family Awards in Northern Research (Master's Level), The W. Garfield Weston Foundation through Scholarship Partners Canada (\$15,000)
Stan Rowe Graduate Student Award 2020, Canadian Council on Ecological Areas (\$2000)
Graduate Students' Association Academic Travel Grant, UAlberta (\$500)*
Student Travel Grant, The Alberta Chapter of the Wildlife Society (\$240)*
Ashley and Janet Cameron Travel Award, UAlberta North (\$800)

2019 **Walter H. Johns Graduate Fellowship**, UAlberta (\$5,800)
Faculty of Science Graduate Scholarship, UAlberta (\$2,000)
Alexander Graham Bell Canada Graduate Scholarship, UAlberta (Natural Sciences and Engineering Research Council Canada Graduate Scholarships-Master's Program; \$17,500)

2014 – 2017 **Dean's Honour List**, Vancouver Island University

*Please note: these awards were returned to the funder, as the conferences they were meant to fund were cancelled due to Covid-19

Peer-Reviewed Publications

Thelin, L., Lewis, J., Gilchrist, A., & Craig, J. (2018). The potential effects of climate change on the habitat range of the Vancouver Island marmot (*Marmota vancouverensis*). *The Canadian Geographer*, 62(2): 163-177. DOI: 10.1111/cag.12448

Career Experience

- 2018 – 2019 **Assistant Research & Community Engagement Coordinator** – Mount Arrowsmith Biosphere Region Research Institute (MABRRI), VIU
Administrative duties included managing deliverable deadlines, contract details, and budgets for over 25 ongoing research projects, facilitating strategic planning team meetings, creating advertising materials, and hiring and managing the contracts of all new staff. Project coordination duties included leading field work and office research activities, disseminating research results, supervising student research assistants, meeting with stakeholders, and applying for funding. Key accomplishments for this position include leading the planning and facilitation of the Mount Arrowsmith Biosphere Region (MABR) 2019 Regional Research Conference and directly helping with efforts to raise over \$147,000.00 in funding.
- 2018 **Terrestrial Projects Coordinator** – MABRRI, VIU
Duties included coordinating all terrestrial-based research projects, as described above. Most notably, I successfully helped to raise \$40,000.00 in funding throughout 2017.
- 2017 – 2018 **Research Assistant** – MABRRI, VIU
Duties included assisting with all aspects of research, including field work, report writing, hosting public engagement events, and attending meetings with stakeholders and community partners.
- 2017 **Work-op student** – MABRRI, VIU
Duties included assisting Research Assistants with small research tasks, such as transcribing field notes, designing event posters, etc.
- 2016 – 2017 **Coordinator** – Awareness of Climate Change through Education and Research (ACER), VIU
Duties included planning and facilitating monthly meetings, training new members on how to conduct scientific demonstrations for presentations, attending public engagement events, and facilitating communications with community groups and faculty members.

Teaching Experience

- 2021 **Tutor**, UAlberta Students' Union – tutored a second-year undergraduate student in EAS 210 (Engineering Earth Sciences); course content includes identification of rocks and minerals, weathering and mass-wasting, plate tectonics, etc.
Graduate Teaching Assistant: BIOL 108 (Introductions to Biological Diversity), UAlberta – currently teaching a lab section of ~20 students per week; course content includes evolutionary principles and classification, major ecosystem processes, and the scientific process.
Graduate Teaching Assistant: BIOL 366 (Northern Ecology), UAlberta – assisted with marking duties and met with individual students to provide further support; course content included the ecology of northern ecosystems, including climate, geology, animal and plant adaptations, etc.
- 2019 **Coastal Plant Phenology Data Collection Training Session**, Milner Gardens & Woodland (Nanaimo, BC) – developed and hosted, on behalf of Mount Arrowsmith Biosphere Region Research Institute (MABRRI) and in collaboration with Heather Klassen (Ministry of Forests, Lands, Natural Resource Operations and Rural Development [MoFLNRORD]), a training session for community members to learn how to collect plant phenology data (May 25)
Geography 452 trail counter training, Vancouver Island University (VIU) – developed supplementary educational material beforehand, then trained students in the field on how to use TRAFx infrared trail counters (Jan 19)

Applied Research Activities

- Present **Changing sea ice conditions and polar bear (*Ursus maritimus*) habitat selection in Davis Strait, UAlberta (MSc thesis)**
Under the supervision of Dr. Andrew Derocher, this study aims to investigate how climate change is impacting the habitat of the Davis Strait (DS) subpopulation of polar bears. To date, we have conducted an extensive sea ice trend analysis (1979-2020) and analyzed seasonal polar bear and harp seal habitat selection using radio-telemetry data. We are currently investigating the overlap in ideal habitat between these two species. Next, using already established sea-ice models under various climatic warming scenarios, we will project this ideal habitat forward to estimate how it might be impacted by climate change. This study is done using R and QGIS and is a collaboration between UAlberta, the Government of Nunavut, the Nunavut Wildlife Cooperative Research Unit, Environment and Climate Change Canada, and the Department of Fisheries and Oceans.
- 2018 – 2019 **VIU and the United Nations (UN) 17 Sustainable Development Goals, MABRRI**
This project involved determining VIU's current progress in meeting the UN's Sustainable Development Goals and creating a roadmap to better meet these goals in the future. My role was to coordinate this research initiative, including host meetings with VIU faculty and staff, supervise undergraduate research assistants, and oversee the development of the final report (see *Non-Peer Reviewed Research and Scholarly Activity Contributions* below).
- 2017 – 2019 **Coastal Plant Phenology Research & Monitoring Plot, MABRRI**
This ongoing research initiative is a collaboration between MABRRI, Ministry of Forests, Lands, Natural Resource Operations and Rural Development, and Milner Gardens & Woodland (Nanaimo BC), and involves comparing the phenological changes of coastal native plant species at multiple sites on eastern Vancouver Island to local climate data, with the hope of understanding how coastal ecosystems are influenced by climate change. My role was to train undergraduate students on data collection and analysis, including overseeing the development of an extensive report completed in 2018.
- 2018 **Garry Oak Ecosystem Mapping within the MABR, MABRRI**
This project involved using remote sensing technology to create predictive mapping of the location of Garry Oak ecosystems within the MABR; it involved field work to both ground-truth these sites and analyze their potential vulnerability. I developed this project and found funding to conduct it, then led field work initiatives, including training undergraduate research assistants.
- 2015 – 2017 **The potential effects of climate change on the habitat range of the Vancouver Island marmot (*Marmota vancouverensis*), VIU**
Through an elective course (Geography 491: Independent Research Project) I pursued a research topic of my choice under the guidance of Dr. Jeff Lewis (Geography, VIU). We aimed to understand how climate change may impact the habitat of the endangered Vancouver Island Marmot by modelling habitat requirements based on known hibernacula data provided by the Marmot Recovery Foundation. Then, using modelled biogeoclimatic zone and snow depth data from ClimateBC, based off a worst-case carbon emissions scenario, the potential habitat in 2080 was also mapped. This study was published in *The Canadian Geographer* in 2018.

Non-Peer-Reviewed Research and Scholarly Activity Contributions

- Pyett, J. R., Klassen, H. A., & Thelin, L. C. (2021). Plant phenology research and monitoring pilot project at Milner Gardens & Woodland. *International Journal of UNESCO Biosphere Reserves*, 5(1): 10-16. View report [here](#).
- Mount Arrowsmith Biosphere Region Research Institute. (2019). Strategic Plan for Research and Education 2019-2022. View report [here](#).
- Vaugeois, C., Thelin, L., Pyett, J., Short, K., & Sakaki, G. (2019). The United Nations Sustainable Development Goals & Vancouver Island University: A Review & 3-year Roadmap. *Mount Arrowsmith Biosphere Region Research Institute*. View report [here](#).
- Sakaki, G., Van Acken, A., Mitchell, L., & Thelin, L. (2019). Reconciliation in Action: Working towards Reconciliation in the Mount Arrowsmith Biosphere Region. *Mount Arrowsmith Biosphere Region Research Institute*. View report [here](#).
- Hobkirk, M., Pyett, J., Sakaki, G., Shaw, L., Short, K., & Thelin, L. (2018). French Creek Estuary: Assessment of its Historical, Community, and Ecological Values. *Mount Arrowsmith Biosphere Region Research Institute*. View report [here](#).
- Short, K., Thelin, L., & Sakaki, G. (2018). Monitoring Coastal Plant Phenology on East Vancouver Island: A comparison of in-person and field camera observation methods. *Mount Arrowsmith Biosphere Region Research Institute*. View report [here](#).

Conference Presentations

- 2021 **27th International Conference on Bear Research and Management**, virtual – presented a poster with results-to-date of my MSc thesis entitled: *Changing sea ice conditions and polar bear (*Ursus maritimus*) habitat selection in Davis Strait* (Sep 14-23)
The Alberta Chapter of the Wildlife Society 2021 Conference, virtual – presented on results-to-date and next steps for my MSc thesis (Mar 22-27)
- 2020 **The Alberta Chapter of the Wildlife Society 2020 Conference** – accepted poster presentation for my MSc thesis proposal (Mar 13-15)*
RE Peter Biology Conference – presented a poster of my MSc thesis proposal (Mar 3-5)
- 2019 **MABR 2019 Regional Research Conference (*Understanding our Biosphere Region: Collaborating on Initiatives towards Sustainability*)** – presented on: *The potential effects of climate change on the habitat range of the Vancouver Island marmot (*Marmota vancouverensis*)* (Jun 13)
- 2018 **The UN Sustainable Development Goals & VIU: A Symposium** – presented on behalf of MABRRI, with Courtney Vaugeois, entitled: *How is VIU meeting the UN Sustainable Development Goals: A Research Project by Mount Arrowsmith Biosphere Region Research Institute* (Oct 18)
- 2017 **CREATE Conference**, VIU – poster presentation of the final research results of: *The potential effects of climate change on the habitat range of the Vancouver Island marmot (*Marmota vancouverensis*)* (Mar 29)
- 2016 **CREATE Conference**, VIU – poster presentation of the primary research results related to: *The potential effects of climate change on the habitat range of the Vancouver Island marmot (*Marmota vancouverensis*)* (Mar 30)
Western Division of the Canadian Association of Geographers Conference, University of Northern British Columbia, Prince George BC – presented on primary research results related to: *The potential effects of climate change on the habitat range of the Vancouver Island marmot* (Mar 11-12)

*Please note: Although this poster was accepted, the conference was cancelled due to Covid-19.

Science Communication Experience*

*The following lists science communication efforts for the general public. For science communication in academia please see Conference Presentations above and for presentations related to Career Experience, see Other Presentations below.

- 2021 **Earth Rangers Pre-recorded Podcast**, virtual – Earth Rangers partially funds my MSc thesis; I recently pre-recorded a podcast about my research and recent trip to Churchill with Polar Bears International; the podcast should be released within the next month (see Volunteer Experience below; Nov 26)
- Earth Rangers Facebook Live Interview**, virtual – the purpose of this interview was to promote my research and discuss the impacts of climate change on polar bears in a kid-friendly environment; the interview can be viewed [here](#) (Mar 17)
- 2020 **Interactive Booth Display**, Telus World of Science Edmonton (Edmonton AB) – developed (see Certifications & Additional Training below) and presented an interactive booth on the potential impacts of climate change on polar bear habitat during International Day of Women in Science (Feb 11)
- 2019 **Interactive Booth Display**, Telus World of Science Edmonton (Edmonton AB) – presented an interactive table display to teach children and the general public about polar bear habitat and potential effects due to climate change (Dec 7)
- 2017 **VIU Grandkids' University: Major in Earth Explorers 2.0**, VIU – assisted the VIU Geography Department with hosting this event (Jul 6-7)
- Qualicum Beach Family Day**, Qualicum Beach BC – hosted a booth at this event on behalf of ACER; demonstrated science experiments regarding the greenhouse effect and ocean acidification to teach about the impacts of climate change (May 28)
- Geography 211**, VIU – presented, on behalf of the Awareness of Climate Change through Education and Research (ACER; see Career Experience below), and with Trevor Dickinson, on the greenhouse effect and ocean acidification using scientific demonstrations to help explain the impacts of climate change (Mar 23)

Other Presentations*

*The following lists other presentations I did during my time with MABRRI (see Career Experience above), or throughout my academic career.

- 2021 **Government of Nunavut Annual General Meeting**, Edmonton AB – digitally presented my MSc Thesis results-to-date to the Government of Nunavut, and on behalf of the Nunavut Wildlife Cooperative Research Unit (NuWCRU), to update them on NuWCRU's ongoing research (Nov 27)
- 2019 **Government of Nunavut Annual General Meeting**, Edmonton AB – digitally presented my MSc Thesis Proposal to staff of the Government of Nunavut, as above (Nov 19)
- VIU Faculty Professional Development Day: Tour of the MABR** – assisted with hosting a tour of the MABR for around 20 faculty of VIU on behalf of MABRRI (May 2)
- Rhododendron Society**, Nanaimo BC – presented on behalf of MABRRI, with Jessica Pyett (MABRRI, VIU) and Heather Klassen (MoFLNRORD), on the Coastal Plant Phenology Research & Monitoring project in hopes of garnering interest in volunteer data collection (May 9)
- Nature Nanaimo**, Nanaimo BC – presented on behalf of MABRRI, with Jessica Pyett (MABRRI, VIU), on MABRRI's Coastal Plant Phenology Research & Monitoring project, as above (Mar 21)
- Arrowsmith Naturalists**, Parksville BC – presented on behalf of MABRRI, with Jessica Pyett (MABRRI, VIU), on MABRRI's Coastal Plant Phenology Research & Monitoring project (Feb 28)
- 2018 **Qualicum Beach Rivers Day Event**, Qualicum Beach BC – hosted a booth at the opening of Qualicum Beach's new interpretive centre to raise awareness of the work that MABRRI is doing within the region (Sep 23)

- 2018 cont'd
- VIU Grandkids' University: Major in Earth Explorers 2.0**, VIU – assisted with hosting this event, which was facilitated by MABRRI (Jul 5-6)
 - Department of Forestry at the Municipality of North Cowichan**, North Cowichan BC – presented on MABRRI's Coastal Plant Phenology Research & Monitoring project in hopes of expanding the project into forestry plots located in North Cowichan (Jul 4)
 - Snaw-naw-as Elders' Lunch**, Nanoose BC – attended a traditional gathering and lunch on behalf of MABRRI to discuss our efforts in the Snaw-naw-as Garden of Spiritual Healing (Jun 6)
 - Friends of French Creek Conservation Society's Annual General Meeting**, French Creek BC – keynote presenter on the work to date for the French Creek Estuary project (May 3)
 - Water Stewardship in a Changing Climate: Tour of the Five Acres Farm**, Nanaimo BC – assisted with leading a tour of the Five Acres Farm for attendees of this conference based on a study I was involved with through MABRRI in 2017 (see *Research Activities* above) (Apr 11)
 - Geography 324**, VIU – presented to undergraduate students on: *What to expect from a Geography 491 Independent Research Project* (Mar 9)
- 2017
- Canada C3 Expedition: Visit to the Mount Arrowsmith Biosphere Region**, Nanoose Bay BC – assisted with hosting the tour of Snaw-naw-as and Qualicum Traditional Territories (Oct 21)
 - Five Acres Farm Public Consultation Event**, Nanaimo BC – planned and facilitated a public consultation event at the Five Acres Farm to raise awareness of a MABRRI study that aimed to understand the ecological, historical, and community values of this lot in an attempt to protect it from potential urban development (Jul 27)
 - Second annual MABR BioBlitz**, Parksville BC – assisted with facilitating this event on behalf of MABRRI at Milner Gardens and Woodland, which teaches volunteers to conduct rapid species inventories (Apr 22)
 - Geography 324**, VIU – presented to undergraduate students on: *What to expect from a Geography 491 Independent Research Project* (Mar 3)

Scholarly Events Attended (Conferences, Workshops, & Presentations)

- 2021
- COVID Science: Cutting through the noise**, Li Ka Shing Institute of Virology (UAlberta) – attended this [virtual public webinar](#) aimed at addressing misinformation regarding COVID vaccines (Jun 22)
 - Ecosystem restoration in coral reefs and boreal forests**, Sustainability Council (UAlberta) – attended this [virtual event](#) aimed at encouraging attendees “to consider the diverse ways people are restoring our ecosystems” during World Environment Day (Jun 9)
 - Writing is Your Nature**, Yellowstone to Yukon Conservation Initiative and Pandemic University – attended this virtual writing course to better learn how to write creatively about environmental (and scientific) topics (May 11-25)
 - COP hack**, UAlberta – attended this virtual [discussion](#) exploring how “the international community negotiates and navigates climate change action under the UN Framework Convention on Climate Change” (May 12)
 - MSc defence: Fluctuating selection on nest defense behavior in Arctic peregrine falcons (*Falco peregrinus tundrius*)** – **Nicholas Gulotta**, UAlberta – attended this virtual MSc defence in an effort to increase my understanding of resource selection studies (Apr 8)
 - Elevating Women in Science**, UAlberta – attended this webinar that discussed statistics regarding women in STEM fields (Apr 6)
 - Picture a Scientist live Q&A**, UAlberta – attended this virtual talk aimed at discussing how to advance diversity and inclusion in STEM fields (Mar 24)
 - Ecology & Evolution Series**, UAlberta – this series of talks is hosted once per week by the Department of Biological Sciences; speakers present on their work related to ecology and evolution. This week I attended the virtual presentation entitled “*Extracting more out of*

- spatiotemporal data to understand the behaviour and distribution of marine species”* by Dr. Marie Auger-Methe (UBC; Nov 29)
- 2021 cont'd **Reinventing science publishing to make it work for science, scientists and the public – Michael Eisen**, UAlberta – attended this virtual seminar about using the internet to change the publication process, in order to make science more accessible (Feb 4)
- Pathways to careers in conservation with NGOs**, Canadian Society of Ecology and Evolution – attended this virtual event that shared insight into working in Canadian NGOs (Jan 13)
- 2020 **MSc defence: Energy selection functions: modelling the energetic drivers of animal movement and habitat use – Natasha Klappstein**, UAlberta – attended this virtual MSc defence in an effort to increase my understanding of polar bear biology (Dec 9)
- Picture a Scientist: film and discussion**, UAlberta – attended a virtual discussion following a viewing of *Picture a Scientist*, a film aimed at exposing systemic sexism in STEM fields (Nov 27)
- Alberta Chapter of the Wildlife Society workshop: Working with communities**, Edmonton AB – attended this half-day virtual workshop which taught best practices for working with community members when developing and carrying out research projects (Nov 25)
- PhD Defence Seminar: Polar bear foraging, spatial, and energetics ecology in the changing Arctic – Amy Johnson**, UAlberta – attended this virtual PhD defense in an effort to increase my understanding of polar bear biology (May 26)
- Biology 506 Seminar: Evolutionary history of bears**, UAlberta – attended this seminar, led by Sarah Dias dos Santos, that discussed the complex speciation process that has led to our seven current species of bear (Feb 24)
- MSc Defense: Migration dynamics of polar bears (*Ursus maritimus*) in western Hudson Bay – Alyssa Bohart**, UAlberta – attended this MSc defense, which discussed polar bear migration phenology, in an effort to increase my understanding of polar bear biology (Jan 21)
- 2019 **Ecology & Evolution Series**, UAlberta – attended the presentation “*From Yellowstone to Yukon: Science, policy, and action to protect and connect large landscapes*” by Dr. Aerin Jacob (Nov 29)
- Ecology & Evolution Series**, UAlberta – attended the presentation “*How brown bears cope with humans in Sweden*” by Dr. Jon Swenson (Nov 1)
- Ecology & Evolution Series**, UAlberta – attended the presentation “*The origin of snakes*” by Dr. Michael W. Caldwell (Oct 4)
- Ecology & Evolution Series**, UAlberta – attended the presentation “*Fear as an organizing principle in ecology*” by Dr. Darcy Visscher (Sep 6)
- Canadian Institutes of Health Research (CIHR) Idea Fair and Learning Circle on Indigenous Gender and Wellness**, Montreal QB – attended this conference on behalf of MABRRI in an attempt to better understand how to enhance the Snaw-naw-as Garden of Spiritual Healing, an indigenous garden tended to by MABRRI staff (Jun 18-20)
- MABR 2019 Regional Research Conference (*Understanding our Biosphere Region: Collaborating on Initiatives towards Sustainability*)**, Parksville BC – led the planning and facilitation of a small three-day local conference aimed at connecting researchers throughout the region (Jun 12-14)
- French Ameri-Can Climate Talks on Biodiversity (FACT-B) Conference**, University of British Columbia, Vancouver BC – attended this event which included a panel discussion on the effects of climate change on biodiversity in a French-Canadian perspective (May 30)
- 2018 **Canadian Biosphere Reserves Association 2018 Fall Gathering**, Parksville BC – helped to facilitate this four-day event as a representative of the MABR (Nov 21-24)
- The UN Sustainable Development Goals & VIU: A Symposium** – facilitated and hosted this event on behalf of MABRRI, which aimed to educate the VIU community on the UN Sustainable Development Goals and gain recommendations on how VIU can better meet them. The event

was a part of the research project (see *Applied Research Activities* above) – over 60 VIU students, faculty, and staff attended this event in addition to former VIU President, Ralph Nilson (Oct 18)

2017 **Man and the Biosphere Programme Youth Forum**, Po Delta Biosphere Reserve, Italy – attended on behalf of MABRRI. The purpose of this conference was to brainstorm ways in which youth can become more involved in the global network of biosphere reserves (Sep 18-23)

Student & Staff Research Supervision*

*The following outlines students and/or staff members that I supervised while at MABRRI.

2019 As the Assistant Research & Community Engagement Coordinator for Mount Arrowsmith Biosphere Region Research Institute (MABRRI), I supervised 3 student research assistants.
 2018 As a Projects Coordinator and then the Assistant Research & Community Engagement Coordinator for MABRRI, I supervised 2 work-op students and 9 student research assistants.
 2017 As a Projects Coordinator for MABRRI, I supervised 1 work-op student and 1 student research assistant.

Research Funding

Year	Funder	Amount	Role	Project	Status
2020	Earth Rangers	\$7,500.00	Applicant	Changing sea ice conditions and polar bear (<i>Ursus maritimus</i>) habitat selection in Davis Strait	Confirmed
2019	VIU (Explore Grant)	\$1,958.50	Co-applicant	2019 MABR Regional Research Conference	Confirmed
	VIU (Gather Grant)	\$2,970.00	Co-applicant	2019 MABR Regional Research Conference	Confirmed
	VIU (Gather Grant)	\$2,322.92	Co-applicant	MABR BioBlitz	Confirmed
2018	NSERC CGS-M	\$17,500.00	Applicant	Habitat suitability models: predicting future habitat shifts for vulnerable animal species	Confirmed
	Canadian Institutes of Health Research	\$3,670.00	Applicant	Funding to attend the Idea Fair and Learning Circle event in 2019	Confirmed

Research Funding Assistance*

*During my time at MABRRI, I assisted with applying to the following grants and funders as part of a team that raised over \$650,000.00 in total funding since I joined.

Year	Funder	Amount	Project	Status
2018	Canadian Institutes of Health Research	\$3,670.00	Funding for one staff member to attend the Idea Fair and Learning Circle event in 2019	Completed
	Environmental Careers Organization Canada	\$15,000.00	Wage subsidy to hire a Community Engagement Coordinator	Completed
	SSHRC	\$47,004.00	Coast Salish Traditional Place Names: Reconciling a Colonial Past in the UNESCO-designated MABR	Confirmed
	Mitacs Career Connect	\$11,500.00	Wage subsidy to hire a Senior Research Assistant	Completed
	Environmental Careers Organization Canada	\$7,500.00	Wage subsidy to hire a Senior Research Assistant	Completed
	TimberWest	\$2,000.00	Snaw-naw-as Garden of Spiritual Healing	Completed
	TD Friends of the Environment Foundation	\$3,217.50	Coastal Plant Phenology Research & Monitoring Plot	Confirmed
	Environmental Careers Organization Canada	\$15,000.00	Wage subsidy to hire a GIS specialist	Completed
	Environmental Careers Organization Canada	\$15,000.00	Wage subsidy to hire a Community Engagement Coordinator	Completed
	St John's School of Alberta Legacy Foundation	\$11,893.00	The MABR Youth Program	Confirmed
	VIU Research Awards Committee	\$4,814.16	Garry Oak Ecosystem Mapping within the MABR	Completed
	Mitacs Career Connect	\$10,000.00	Wage subsidy to hire a projects coordinator	Completed
	2017	District of Ucluelet	\$15,000.00	District of Ucluelet Updated Official Community Plan
VIU Regional Initiatives Fund		\$15,000.00	District of Ucluelet Updated Official Community Plan	Completed

Professional Affiliations and Memberships

- 2019 – Present **Canadian Society for Ecology and Evolution** – Member
Alberta Chapter of The Wildlife Society (ACTWS) – Member
Nunavut Wildlife Cooperative Research Unit (NuWCRU), University of Alberta – Member
Graduate Students' Association, University of Alberta – Member
- 2015 – Present **Canadian Association of Geographers** – Member

Certifications & Additional Training

Teacher training & science communication

- 2021 **Faculty of Graduate Studies and Research (FGSR): Graduate Teaching and Learning Program Level 2**, UAlberta
- 2020 **FGSR: Graduate Teaching and Learning Program Level 1**, UAlberta
- 2019 **Research Zone: Science Communication Training Program**, Telus World of Science

Research & field work

- 2021 **Canadian Association of Zoo and Wildlife Veterinarians: Chemical Immobilization of Wildlife Course**, University of Calgary AB
First Aid Level 1 Certificate, Edmonton AB
- 2020 **Bear Awareness and Safety**, UAlberta
Wilderness Level III First Aid, Sturgeon County AB
Conservation Project Planning (National Geographic Exploring Conservation Online Course)
Prioritizing Species & Spaces (National Geographic Exploring Conservation Online Course)
- 2019 **Possession and Acquisition Licenses** (Both Non-restricted and Restricted), Edmonton AB
Core 1: Animal Research: Ethics and Use at the University of Alberta, University of Alberta
Core 2: Basic Principles of Animal Ethics and Welfare of Animal Use (Wildlife Stream), University of Alberta
- 2015 **Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans Certification**, VIU
Pleasure Craft Operator Card, Osoyoos BC
- 2013 **Class 5 Driver's License**, Osoyoos BC
- Other**
- 2020 **LivingWorks Start Suicide Prevention Training**, Edmonton AB (online course)
- 2018 **WHIMIS 2015 & 1988**, VIU

Volunteer Experience

- 2021 **Polar Bears International**, Churchill MB – Assisted this non-profit with their community outreach and education; tasks included talking with the public in Polar Bears International House (an interpretive center) and out on the tundra about my thesis work
- 2020 **Stop Abuse in Families Society**, Edmonton AB – Sewed 50 facemasks for this non-profit
- 2014 – 2016 **ACER**, VIU – Assisted with presenting scientific demonstrations to classrooms and public engagement events; member from 2014-2016, then Coordinator from 2016-2017 (see Career Experience above)
- 2013 – 2016 **Solutions: A Sustainability Network**, VIU – Member (2013-2015) then Co-president (2015-2016) of this student-led group aimed at increasing sustainability on campus
- 2013 – 2017 **Geographic Students' Union**, VIU – Member (2013-2016) then Co-Vice President (2016-2017)