



Danielle Nowosad

I am a Red River Métis-settler interdisciplinary researcher that is interested in community-driven freshwater ecology projects. I prioritize working with Indigenous collaborators in participatory research, combining multiple ways of knowing, and honouring data sovereignty. I am currently investigating the baseline of biodiversity and response to impacts of climate change in freshwater invertebrate/biting insect communities in the Kitikmeot region of Nunavut, using DNA methodologies and IQ (Inuit Qaujimagatuqangit). I have worked with government agencies, academics, non-profits, and the public.

Education

Year	Institution	Degree	Thesis/Advisors
2025	University of Guelph	PhD Integrative Biology	Thesis: Indigenous-driven monitoring of Arctic invertebrates: DNA barcoding, climate change & vector risks Advisors: Dr Sarah Adamowicz, Dr Karl Cottenie, and Dr Ian Hogg
2019	University of Winnipeg	BSc with Honours in Physical Geography	Thesis: Effects of seasonality and sediment properties on nutrient cycling in Sub-Arctic tundra ponds Advisors: Dr Nora Casson and Dr LeeAnn Fishback

Major Awards - \$511,00

Year(s)	Amount	Award Name	Granting Institution
2025		D.F. Forster Medal – Doctoral	University of Guelph
2025-2027	\$140,000	NSERC Postdoctoral Fellowship	Government of Canada
2025-2027	\$110,000	Weston Family Foundation Post-Doctoral Fellowship (declined)	Weston Family Foundation
2024-2026	\$110,000	Weston Family Foundation Post-Doctoral Fellowship (declined)	Weston Family Foundation
2024	\$10,000	Natural Sciences and Engineering Research Council of Canada (NSERC), Department of Fisheries and Oceans Supplemental Award	Government of Canada
2023	\$10,000	Natural Sciences and Engineering Research Council of Canada (NSERC), Department of Fisheries and Oceans Supplemental Award	Government of Canada
2021-2024	\$63,000	NSERC Post-Graduate Scholarship – Doctoral	Government of Canada
2021-2024	\$45,000	Indigenous Graduate Scholarship – Merit	University of Guelph
2021	\$8,000	Graduate Tuition Scholarship (forfeited)	University of Guelph

2020-2021	\$15,000	Weston Family Award for Northern Research	Weston Family Foundation
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Other Awards - \$41,667

Year	Amount	Award Name	Granting Institution
2025	\$2,500	Malcolm Ramsey Memorial Award in the Life Sciences	Polar Knowledge Canada
2025	\$1,500	Postdoctoral Training Support Program	University of Calgary
2025	\$120	Herbert Armstrong Memorial Book Prize	University of Guelph
2024	\$2,240	Braithwaite Conference Travel Grant	University of Guelph
2024	\$3,600	Northern Scientific Training Program	Polar Knowledge Canada
2023	\$3,157	Northern Scientific Training Program	Polar Knowledge Canada
2023	\$3,000	Indigenous Graduate Scholarship – Fulfilling Community Commitments	University of Guelph
2023	\$2,950	NSERC Indigenous Student Ambassador	Government of Canada
2022	\$4,000	NSERC Indigenous Student Ambassador	Government of Canada
2022	\$3,000	James Bourque Northern Scholarship	Royal Canadian Geographical Society
2021	\$7,500	Building Brighter Futures	Indspire
2021	\$1,000	Jim Bourque Scholarship for Northern Research	Arctic Institute for North America
2020	\$600	First Place – ArcticNet Annual Scientific Meeting Graduate Poster Competition	N/A
2020		Kishaadigeh “She Who Guards The Lodge” Indigenous Leadership Award	University of Guelph
2019-2020		Campus Sustainability Recognition Award	University of Winnipeg
2018	\$4,500	NSERC Undergraduate Student Research Award	Government of Canada
2017	\$2,000	Northern Scientific Training Program	Polar Knowledge Canada

Research Experience

- **Postdoctoral Fellow, Veterinary Medicine | University of Calgary, Calgary, Alberta (2025-2028)**
 - Community-led insect monitoring program lead
 - Community liaison (Cambridge Bay, Kugluktuk, Gjoa Haven, and Kugaaruk in Nunavut) working closely to support Hunter-Trapper Organizations and territorial Wildlife Offices
 - Investigating phenology and environmental variables associated with black fly species richness using DNA methods and interviews/discussions with local land-users and harvesters
 - Logistics coordination for academic teams at two universities in addition to Inuit youth hires
 - Working with wildlife veterinarians to expand community-led caribou, muskoxen, and insect monitoring to better understand relationships between hosts, vectors, and parasites by combining Inuit knowledge and Western scientific methods

- **Dissertation, Integrative Biology | University of Guelph, Guelph, Ontario (2019-2025)**
 - Contributing specimens and DNA barcodes to the major Arctic BIOSCAN project as the freshwater invertebrate specialist
 - Working in tandem with Polar Knowledge Canada (federal government) and the Centre for Biodiversity Genomics (University of Guelph)
 - Collecting 267 unique samples from 140+ sites, identifying and plating ~11,000 invertebrate specimens for DNA barcoding, learning the Barcode of Life Data System (online genomic repository), and biodiversity assessment analyses using DNA barcodes as a proxy for species
 - Created up-to-date species compendium of black fly species in Nunavut, Yukon, and Northwest Territories using genomic and other public data, and determined which species are vectors of concern
 - Used Species Distribution Models to determine habitat suitability for four black fly vector species across Canada, and modelled future distribution under two climate scenarios to predict changes in habitat suitability
- **Contract Researcher Positions**
 - **Contract Researcher**, First Nations Information Governance Centre (2024). Project entitled “Respecting and Asserting First Nations Data Sovereignty in Research Data Management”.
 - **Contract Researcher**, Canadian Wildlife Services, Environment and Climate Change Canada (2024-2025). Conducting study on Indigenous perspectives regarding migratory birds and their monitoring methods. Preparing a project management plan, research methods, ethics, and materials, and interviewing participants nationally
 - **Graduate Research Assistantship**, Research Services Office, University of Guelph (2023-2024). Co-leading and co-facilitating multi-institution and multi-First Nations/Inuit dialogue meetings on asserting First Nations Data Sovereignty
- **Field and Lab Support | Earth Watch – Dr LeeAnn Fishback (2024)**
 - Supporting an international team of citizen scientists in Churchill, MB
 - Project entitled “Climate Change at the Arctic’s Edge”
 - Teaching field safety, field methods, lab methods
 - Teaching about local natural and cultural history, relevant science
 - Lecture on wetlands in Sub-and-High Arctic regions
- **Graduate Research Assistantship | Research Services Office, University of Guelph (2023-2024)**
 - Role is part of a multi-institutional project entitled “Respecting and Asserting First Nations Data Sovereignty in Research Data Management”
 - Bumped up from assistant role to join project lead/facilitation team from the First Nation Information Governance Centre, who are spear-heading the project
 - Co-leading project, co-facilitating multi-institution and multi-First Nations/Inuit dialogue meetings
 - Co-authoring final technical report
- **Research Writer CLEAR Lab – Dr Max Liboiron | Memorial University (2022)**

- Reviewing various projects for completeness and identifying gaps
- Editing manuscripts, preparing/editing figures, simple statistical analyses, preparing manuscripts for publication
- **Grant writer** | Waterways Canada **Winnipeg, Manitoba** (2020-2021)
 - Two contracts to write grants for an Indigenous-led non-profit organization
 - Successful applications to >\$50,000 in funding for various community, land, and culture-based programs for Indigenous youth in Manitoba
- **Research Assistant, Science and Technology** | **Polar Knowledge Canada** (2019-2022, Seven contracts, full-time and part-time)
 - Assisted with field collections of plant phenology, insect ecology, botany, and remote sensing projects
 - Created and led youth workshops in partnership with the Kitikmeot Friendship Society
- **Seasonal Research Technician** | **Churchill Northern Studies Centre, Churchill, Manitoba** (2017-2018)
 - Provided logistical support for field and lab work in Manitoba's Sub-Arctic
 - Led international citizen science teams
 - Completed an Honours thesis on nutrient dynamics in Sub-Arctic tundra pond systems
- **Honours Thesis, Physical Geography** | **University of Winnipeg** (2018-2019)
 - Completed a pilot project in 2017 to establish experimental protocols to investigate nutrient uptake in tundra ponds in Churchill, Manitoba
 - Completed a 4-month field season with in-situ experiments in 2018 to determine influences of sediment composition and temperature in nutrient uptake in tundra pond systems in Churchill, Manitoba
 - Wrote field/experiment and lab protocols for the project so I could teach other students, assistants, and international groups of citizen scientists
 - Analyzed sediment samples for organic composition and water samples for nutrient (ammonium, phosphorus, nitrogen) concentration

Teaching Experience

- **Co-Instructor, #StudentsonSTEAM** | **University of Guelph, Kitikmeot Heritage Society, Kitikmeot Inuit Association** (June 2024)
 - Emily Angulalik and Elders in Residence. Kitikmeot Heritage Society/Inuit Knowledge Keepers, Dr Shoshanah Jacobs, Dr Dan Gillis, Dr Jonathan Goldner Department
 - Co-instructed a 10-day holistic, on the land course targeting Inuit high school youth between grades 10-12; co-taught with Inuit Elders and Knowledge Keepers

- Activities were loosely structured, guided by youth interests, weather, and which Elder/Knowledge Keeper was participating that day
- Established a base camp for 5 days on the tundra and did activities such as soil sampling, insect sampling, botany sampling and identification, archery, hunting, fishing, canoeing, egg harvesting, bird plucking and butchering
- **Graduate Teaching Assistant, Integrative Biology | University of Guelph** (January - April, 2020, 2021)
 - Taught 2-3 lab sections for BIOL-1080, “Discovering Biodiversity,” a first-year biology course (20-25 students per section)
 - Graded assignments and proctored exams
- **Guest Instructor | University of Guelph, Grundy Lake Provincial Park, Ontario** (August 2023)
 - I was invited to assist on an honorarium basis with the field component of a second-year Bachelor of Indigenous Environmental Science and Practice course
 - I taught a Metis-style beadwork workshop to ~15 participants, spoke about my experience as an Indigenous graduate student in a Western scientific discipline, and participated in teachings from Elders
- **Co-Instructor, #StudentsonSTEAM | University of Guelph, Kitikmeot Heritage Society, Kitikmeot Inuit Association** (June 2023)
 - Emily Angulalik and Elders in Residence, Margot, Burt, Kitikmeot Heritage Society/Inuit Knowledge Keepers; Dr Shoshanah Jacobs, Dr Tad McIlwraith, Dr Jess Clausen
 - Co-instructed a 2-week holistic, on the land course targeting Inuit high school youth between grades 10-12; co-taught with Inuit Elders and Knowledge Keepers
 - Activities were loosely structured, guided by youth interests, weather, and which Elder/Knowledge Keeper was participating that day
 - Activities ranged from learning in various environmental areas (wetlands, tundra, lakes, ocean), traditional sewing and beadwork, and combining Inuit Knowledge and way of life (Inuit Qaujimajatuqangit) and Western scientific ways of knowing

Publications and Presentations

Journal Publications (Peer-Reviewed)

- Nowosad, D., Segal, B., Wilson, K., and Beattie, M. (2025). Inuit Qaujimajatuqangit and Western science: examples of research that demonstrate sovereignty and self-determination in the face of complex impacts from climate change. *Arctic Science*. <https://doi.org/10.1139/as-2023-0081>
- Nowosad, D., Hogg, I., Cottenie, K., Lear, C., Adamowicz, S. (2024). High diversity of freshwater invertebrates on Inuinait Nuna, the Canadian Arctic, revealed using mitochondrial DNA barcodes. *Polar Biology*. <https://doi.org/10.1007/s00300-024-03311-3>
- Nowosad, D. (2018). Rethinking the Foundations of Canada: From Historical Records to Life Experiences. The Case of Peter Fidler. *Crossings*, vol. 2, pp. 143-153

Works in Progress

- First Nations Information Governance Centre (on co-author list; expected release Dec 2025). Respecting and Asserting First Nations Data Sovereignty in Research Data Management: finding common ground for the co-development of RDM policy and infrastructure in Canada's academic research environment.
- Nowosad, D., Currie, D., Hogg, I., Cottenie, K., Steinke, D., Maksagak, B., Dumond, A., Colman, O., and Adamowicz, S. (expected submission Dec 2025). Biting truths: Black fly diversity and vector potential in Arctic Canada.
- Nowosad, D., Soghigian, J., Kutz, S., Bernhardt, J., McIlwraith, T., and Adamowicz, S. (expected submission Jan 2026). Creating the Kitikmeot Biting Insect Monitoring Program. Special issue of Facets.
- Nowosad, D., Currie, D., Hogg, I., Cottenie, K., Steinke, D., and Adamowicz, S. (expected submission Jan 2026). Climate change reshaping black fly ranges and wildlife disease risks in Northern Canada.

Technical Reports

- **Nowosad, D.**, Hogg, I. and Adamowicz, S. (2020). Using DNA barcoding to inventory and track changes in the distribution and diversity of freshwater invertebrates in the Canadian Arctic. Aqhaliat 2020, Polar Knowledge Canada, p. 21-23 DOI: 10.35298/pkc.2020.04.eng

Non-peer reviewed

- **Nowosad, D.** (2021). Arctic BIOSCAN: Tracking biodiversity in Canada's Middle Arctic using DNA. iBOL (International Barcode of Life) Bulletin Board. Online. <https://ibol.org/barcodebulletin/illuminations/2021-25-05-dna-barcode-research-in-the-canadian-middle-arctic-that-works-to-include-indigenous-locals/>
- **Nowosad, D.** (2021). Birding in Cambridge Bay. Canadian Section of The Wildlife Society Newsletter. 14(4).
- **Nowosad, D.** and Beattie, M. (2023). SciQ: A new approach to ethical research in the North. Canadian Geographic. Online. <https://canadiangeographic.ca/articles/sciq-a-new-approach-to-ethical-research-in-the-north/>
- **Nowosad, D.** (2024). Backcountry Arctic Science: Canoe Edition. Arctic Focus. Online. <https://www.arcticfocus.org/stories/backcountry-arctic-science-canoe-edition/>
- **Nowosad, D.** (2024). Upholding Inuit data sovereignty in Nunavut. Arctic Focus. Online. <https://www.arcticfocus.org/stories/upholding-inuit-data-sovereignty-nunavut/>
- **Nowosad, D.** (2024). Inuit-led wellness and support programs in the Kitikmeot. Arctic Focus. Online

Community reports (July 2022, April 2023, Nov 2024, July 2024)

- Delivered in-person and by email to the Hunter-Trapper Organizations in Cambridge Bay and Kugluktuk, Nunavut
- Reported sampling sites and protocols, preliminary results, knowledge mobilization strategies
- Answered project-specific questions from community members
- Plain-language summaries of published academic papers

Invited Lectures

- Respecting Indigenous Sovereignty Through Research Knowledge Management Strategies, *University of Calgary, Veterinary Medicine seminar series*, Calgary, Alberta, May 2025.
- Kitikmeot Biting Insect Monitoring Program, *Braiding Knowledges Canada, Wildlife Wednesdays seminar series*, March 2025.
- Respecting Indigenous Sovereignty Through Research Knowledge Management Strategies, *Indigenous Initiatives, University of Guelph*, Guelph, Ontario, March 2024.
- Implementing Inuit guidelines for ethical research, *BIOL 6110 - Emerging Problems and Opportunities in Wildlife Biology, University of Guelph*, Guelph, Ontario, September 2023.
- Implementing Inuit guidelines for ethical research, *GEOG 3330 - Research Methods, University of Winnipeg*, Winnipeg, Manitoba, August 2023.
- Building a genetic DNA library of freshwater invertebrates around Cambridge Bay, NU, *Grade 10 Biology students in Peel, Ontario*, Peel, Ontario, December 2022.
- Indigenous inclusion in universities, *Centre for Innovation in Campus Mental Health*, October 2022.
- Knowledge Mobilization: Implementing Inuit guidelines for ethical research, *Environment and Climate Change Canada seminar series*, October 2022.
- Knowledge Mobilization: Implementing Inuit guidelines for ethical research, *Integrative Biology Departmental Seminar Series, University of Guelph*, Guelph, Ontario, September 2022.
- Building a genetic DNA library of freshwater invertebrates around Cambridge Bay, *Canadian High Arctic Research Station Public Speaker Series*, Cambridge Bay, Nunavut, June 2022.
- Careers outside: Scientific research, *Sturgeon Heights Collegiate Outdoor Education class*, Winnipeg, Manitoba, May 2022.
- Using DNA barcoding to understand biodiversity in Canada's North, *Canadian Parks and Wildlife Society, Manitoba chapter*, Winnipeg, Manitoba, May 2022.
- Exploring freshwater biodiversity in the Arctic, *Live lesson via Explore By The Seat Of Your Pants*, February 2022.
- Arctic BIOSCAN freshwater invertebrates in Cambridge Bay, *Kiliniik High School Freshwater Biology class*, Cambridge Bay, Nunavut, October 2021.

Conference Presentations

- Black fly vectors, filaroids, and caribou: predicting overlap in the Kitikmeot Region of Nunavut, *ArcticNet Annual Scientific Meeting*, Calgary, Alberta, December 2025 (Talk).
- Community-driven biting insect monitoring on Inuinait Nuna, the Canadian Arctic, *Living Data international conference*, Bogota, Colombia, October 2024 (Talk).
- Black fly diversity and vector potential in Arctic Canada using taxonomy, DNA, and SDMs, *Entomology Society of Canada Annual Meeting*, Calgary, Alberta, October 2024 (Talk).
- Biting truths: Black fly diversity and vector potential in Arctic Canada, *ArcticNet Annual Scientific Meeting*, Ottawa, Ontario, December 2023 (Talk).

- Using DNA barcoding to assess biodiversity of freshwater invertebrates on Inuinnait Nuna, or the Canadian Middle Arctic, *Canadian Society for Ecology and Evolution Annual Scientific Meeting*, Winnipeg, Manitoba, June 2023 (Talk).
- Using DNA barcoding to assess biodiversity of freshwater invertebrates on Inuinnait Nuna, or the Canadian Middle Arctic, *ArcticNet Annual Scientific Meeting*, Toronto, Ontario, December 2022 (Talk).
- Métis Experiences in Science, *Mawachihitotaak: Let's Get Together Métis Symposium*, Online, September 2021 (Talk).
- Building the reference library for freshwater invertebrates in the Canadian Middle Arctic, *ArcticNet Annual Scientific Meeting*, Online, December 2020 (Poster).
- How can DNA barcoding be used to understand biodiversity and phylogeography of freshwater invertebrates in the Canadian Arctic?, *Canadian Association of Limnologists Annual Scientific Meeting*, Online, February 2020 (Talk).
- Using DNA barcoding to assess biodiversity and phylogeography of freshwater invertebrates in the Canadian Arctic, *ArcticNet Annual Scientific Meeting*, Online, December 2019 (Poster).
- DNA barcoding: what is it, and how it can be used in the Canadian Arctic?, *American Indian Science and Engineering Society (AISES) international annual conference*, Online, November 2019 (Poster).
- Using DNA barcoding as a tool to understand biodiversity and phylogeography of freshwater invertebrates in the Canadian Arctic, *Cold Regions Research Days*, Online, October 2019 (Talk).
- Freshwater invertebrates in the Canadian Arctic: Using DNA barcoding to assess biodiversity, phylogeography, and ecological factors, *ArcticNet Annual Scientific Meeting*, Halifax, Nova Scotia, December 2019 (Poster).
- Freshwater invertebrates in the Canadian Arctic: Using DNA barcoding to assess biodiversity, phylogeography, and ecological factors, *Annual Cold Regions Conference*, Waterloo, Ontario, 2019 (Poster).
- Effect of Seasonality and Sediment Properties on Rate of Nutrient Uptake in Tundra Pond Sediments, *Canadian Association of Geographers Annual Conference*, Winnipeg, Manitoba, 2018 (Talk).
- Effect of Seasonality and Sediment Properties on Rate of Nutrient Uptake in Tundra Pond Sediments, *Prairie Biology University Symposium*, Winnipeg, Manitoba, 2018 (Poster).
- Effect of Seasonality and Sediment Properties on Rate of Nutrient Uptake in Tundra Pond Sediments, *High North Programme Symposium*, Gjøvik, Norway, 2018 (Talk).
- Effect of Seasonality and Sediment Properties on Rate of Nutrient Uptake in Tundra Pond Sediments, *Randy Kobes Poster Competition*, Winnipeg, Manitoba, 2018 (Poster).
- Nutrient Uptake in Tundra Pond Sediments, *Geography Honours Symposium*, Winnipeg, Manitoba, 2018 (Talk).

Mentorship and Service

Mentorship

- **MSc and PhD Thesis Students** (University of Guelph and Calgary, 2025): Liaising between students and Inuit community partners; assisting with planning experimental design; training in field techniques and community engagement
- **Undergraduate Honours Thesis** (2024-2025): Trained logistics coordination, field methods, and lab processing for a thesis on a new DNA primer protocol

- **Undergraduate Student Research Assistants (2023):** Created onboarding materials and developed research projects aligned with student interests and Hunter-Trapper Organizations' goals

Professional Service

- Peer-Reviewed Articles for: *Conservation Biology*, *Freshwater Biology*, *Global Change Biology*, *Facets*, *Arctic Science* (2023 – present)
- Committee member - Institutes for Transdisciplinary Scholarship Postdoctoral Scholar Committee (2025 – present)
- Co-chair of the Indigenous Women in Science Circle (2025 – present)
- Session co-organizer for the ArcticNet Annual Scientific Meeting (2022, 2025)
- Special Graduate Faculty in the Department of Integrative Biology, University of Guelph, supervising MSc student Shauna Dowaretzek (2025 – present)
- Graduate Programs and Faculty Committee, University of Guelph (2022-2024)
- Centre for Indigenous Fisheries Advisory Council, University of British Columbia (2022 – present)
- IAAC Indigenous-Science Knowledge Systems Engagement, Departmental working group, Integrative Biology, University of Guelph (2021-2022)
- English Communications Officer, ArcticNet Student Association Executive Committee (2019-2022)

Community Service

- **Métis Harvesting Collective (2024-2024):** Advisory committee member for a \$20,000 grant on food sovereignty, leading activities including medicine harvest, supporting harvesting camps (e.g. trapping, hunting, fishing, etc).
- **Métis Harvesting Collective (2023-2024):** Co-leading the Collective with two other Metis youth - \$20,000 in funding from Indigenous Youth Roots to plan and facilitate on-the-land traditional knowledge mobilization. We organize workshops with *Métis* Knowledge Keepers and Elders in Manitoba, and use the grant to offer workshops to Metis youth free of cost. 2 beading workshops, 5 trapping workshops, 2 fishing workshops, 1 guided hike.
- **Biodiversity Workshops (2022-2025):** Led outdoor pond invertebrate collections and indoor microscope/identification components for youth in Cambridge Bay, Nunavut, in partnership with the Kitikmeot Friendship Society
- **Kitikmeot Friendship Society Biodiversity Workshops (2023):** Workshop in Cambridge Bay, Nunavut at the Canadian High Arctic Research Station. Funded by the NSERC Indigenous Student Ambassador award and Polar Knowledge Canada, in partnership with the Kitikmeot Friendship Society. Outdoor pond invertebrate collections and indoor microscope and identification component. Youth took custom-made colouring pages, transfer pipettes, plastic forceps, jars, and invertebrate stickers home. Donated all workshop materials (nets, hand microscopes, petri dishes, identification sheets and book) to the Kitikmeot Friendship Society for use in future youth programs

- **Métis Environmental Leaders of Tomorrow (MELT) (2022):** Funded by the NSERC Indigenous Student Ambassador Award. Created freshwater and bird workshops for 60 Métis youth in Manitoba to integrate into canoe, land, and culture-based day camps.
 - **Polar Knowledge Canada and Kitikmeot Friendship Society Freshwater Biodiversity Workshops (2022):** 2 workshops run in Cambridge Bay, Nunavut at the Canadian High Arctic Research Station. Funded by POLAR, in partnership with the Kitikmeot Friendship Society. Outdoor pond invertebrate collections and indoor microscope and identification component. Youth took custom-made colouring pages, transfer pipettes, plastic forceps, jars, and invertebrate stickers home.
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Professional Development

- 2025 | Workshop on Vector Biology (University of Calgary and the Host-Parasite Interactions Training Network).
 - 2022 | Workshop: Skills for research impact series: planning for research impact (University of Guelph, Guelph, Ontario).
 - 2022 | Workshop: Reproducible practices for Arctic research using R (Arctic Data Centre, California).
 - 2021 | Workshop: Introduction to geographic analyses of biodiversity (Transmitting Science, Spain).
 - 2021 | Course: Project Management graduate course (Partnership between the University of Guelph and the Community Engaged Scholarship Institute, University of Guelph).
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Memberships

- Explorers Club (International organization) (2022 – present)
 - Canadian Society for Ecology and Evolution (2022 – present)
 - American Indian Science and Engineering Society (2018 – present)
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Languages - English (Native language)

Mentorship and Service

- **Advisory Committee Member, MSc Thesis**
 - 2025 – Present: Shauna Dworatzek, MSc Integrative Biology, University of Guelph (Graduating 2026).
- **MSc and PhD Thesis Students (Universities of Guelph and Calgary, 2025)**
 - Liaising between students and Inuit community partners.
 - Assisting with planning experimental design in field and lab.
 - Training in field techniques.

- Training in aspects of community engagement and respectful partnerships with Indigenous communities.
- Training in knowledge mobilization in academic and public spaces.
- **Undergraduate Honours Thesis (2024-2025)**
 - Olivia Colman, Honours Student BSc BioMed: *New DNA primer protocol for detection of O. cervipedis in Simuliidae adults*. Trained logistics coordination, field methods, and lab processing methods.
 - Jacklyn Simonson, Honours Student Env Sci: *Biting Flies (Simuliidae/Culicidae) Effect on Ranger tarandus in the Arctic and their impacts on Inuit Health*. Co-delivered youth workshops in Kugluktuk, facilitated knowledge mobilization with Inuit partners, helped develop and deliver interviews.
- **Undergraduate Student Research Assistants (2023)**
 - Adamowicz Lab, University of Guelph.
 - Created and curated onboarding materials and project management plans tailored to two undergraduate students working full-time summer contracts.
 - Developed research projects aligned with interests and goals of each student, and aligns with research interests outlined by the Hunter-Trapper Organizations in Kitikmeot.
 - Held twice-weekly meetings to support students in skill development including citation management software, statistical software, and data management.
- **College of Biological Sciences Undergraduate Mentorship Program (CoBUMP) (2020 - 2022)**
 - University of Guelph.
 - Mentor to one upper-year undergraduate student per winter semester.
 - Held weekly meetings to discuss research interests, job opportunities, and graduate school expectations.
 - Provided a living document of opportunities based on student's interests.