

DYLAN SEIDLER

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HALIFAX, NOVA SCOTIA

RESEARCH INTERESTS

Interdisciplinary studies focusing on fisheries monitoring and conservation, cultural significance of fish species for local populations, history of fisheries, species monitoring and population dynamics, endangered species protection, climate change/environmental impacts and relationships with Indigenous Peoples/fisheries.

EDUCATION

PhD Candidate (Biology) (January 2023-Present)

Dalhousie University, Halifax, Nova Scotia Canada

Pending Work: *Iqaluk: Tracking the Abundance of a Cultural Keystone species (Arctic char) using adaptive resistant imaging (ARIS) and historical catch data*

Supervisors: Doctor Aaron MacNeil and Doctor Megan Bailey

Member of the Bailey Lab Dalhousie University

Member of the Integrated Fisheries (ifisheries) Lab Dalhousie University

Member of the Sustainable Nunatsiavut Futures Project

Student Fellow: Ocean Nexus Center

Ongoing Projects:

- *Reshaping the Research Paradigms: Insight from a Large-Scale Project Based in Nunatsiavut, Labrador Canada*
Dylan Seidler, Michelle K. Saunders, Carla Pamak, Melanie Zurba, Paul McCarney, Hekia Bodwitch, Megan Bailey
ARCTIC-2024
- *Ukalagalaak: Lessons Learned from the Sustainable Nunatsiavut Futures Project Knowledge Form, 2023* <https://3.basecamp.com/4467768/buckets/16258168/uploads/7152824447>

Master of Marine Management MMM (2022)

Dalhousie University, Halifax, Nova Scotia Canada

Graduate Thesis: *Marine-Based Research in a Changing Climate: Lessons and Methods for Community Engagement from Nunatsiavut Canada*

Supervisor Hekia Bodwitch

Submissions Committee Co-Lead: Sustainable Ocean Conference

B.A. in Environmental Studies-History, Honors (2020)

Whitman College, Walla Walla, WA USA

Honors Thesis: *Cultural Staples in Crisis: A Historical Analysis of Southern Resident Orcas and Chinook Salmon*

Supervisors Professors Jakobina Arch and Amy Molitor

AWARDS AND GRANTS

- Ocean Frontier Sustainable Nunatsiavut Futures (SNF) Project Grant Recipient | 2023-Present
- Nippon Foundation Ocean Nexus Center Earth Lab research grant recipient | May 2022-2023
- Master of Marine Management academic scholarship | Fall 2021- Winter 2022 | Dalhousie University
- Jan Mejer Award for Environmental Studies thesis | Spring 2020 | Whitman College
- Robert L. Whitner History Award | Spring 2019 | Whitman College
- Student Engagement Center internship grant recipient | Summer 2017 and 2018 | Whitman College
- RISE scholarship winner | 2016

PUBLICATIONS:

Cademan et Al. Working Towards Decolonial Futures in Canada: First Steps for non-Indigenous Fisheries Researchers. 2024. *Journal of fisheries and Aquatic Sciences*.

Seidler et al. Reshaping Research Paradigms: Insights from a Large-scale Project in Nunatsiavut, Labrador Canada. 2024. *Arctic*. In Press.

MEDIA:

- Char and Inuit Food Security: Experiences at the Char Monitoring Station, Fraser River, Nunatsiavut <https://www.meganbailey.ca/post/char-and-inuit-food-security-experiences-at-the-char-monitoring-station-fraser-river-nunatsiavut>
- *CBC News These Scientists are teaming up with Inuit Communities to Study Climate Change in Labrador:* <https://www.cbc.ca/news/canada/newfoundland-labrador/sustainable-nunatsiavut-futures-labrador-coast-1.6806967>
- *CBC Labrador Morning Radio, at Minute 43-58: Marine Scientists on the Labrador Coast* <https://www.cbc.ca/listen/live-radio/1-31-labrador-morning/clip/15977459-government-committed-renewable-energy-future-bird-banding-marine>
- *Dylan Seidler '20 Cares for Animals at Oakland Zoo in Oakland, CA*
- *Dylan Seidler treats Seals and Sea Lions at Marine Mammal Center in Sausalito, CA.*

CLUBS AND SOCIETIES

- Marine Affairs Student Society | 2021-2022
- IllinniaKatigenniik (Early Career SNF Group | 2022-present
- Biology Organization of Graduate Students (BOGS) | 2023-Present
- Dalhousie Association of Marine Biology Students (DAMS) | 2023-Present
- Dalhousie Outdoors Program | 2022-Present
- Dalhousie Reading Society | 2024-present
- Dalhousie Board Game Society | 2024-Present
- Dalhousie Writers Society | 2024-Present

RELEVANT CONFERENCES, PRESENTATION & WORKSHOPS

- **Nimiipuu River Rendezvous-Free the Snake Flotilla** | Nez Perce Reservation | 2018 | Lewiston, ID
 - ♦ After a visit to several federal dams and salmon habitat restoration sites run by the CTUIR (Confederate Tribes of the Umatilla Indian Reservation) I also participated in a river flotilla on the Nez Perce reservation, an event highlighting the loss of Snake River salmon due to dam construction.
- **Marine Mammal Presentation** | UC Berkeley | August 2018 | Berkeley, California
 - ♦ *Human Impacts on Juvenile Hawaiian Monk Seals: A Review of Fishing Practices Effects on an Endangered Species*

- **Whitman College Undergraduate Conference** | Whitman College | April 2020
 - ♦ Panel Moderator Environmental Awareness and Impacts (moved online due to COVID)
 - ♦ **Planned Presentation on Southern Resident orcas and Chinook Salmon: The Importance of Historical Context in Addressing Population Crisis**
- **Thesis Defense** | May 2020 | Virtual | Whitman College
- **Seminar Presentation** | MARA 5003 | Halifax, Nova Scotia
 - ♦ *Arctic Char: Improving Stock Monitoring in a Changing Climate*
- **Attended Halifax Sustainable Nunatsiavut Futures Workshop** | May 2022 | Halifax, Nova Scotia
- **Ocean Frontier Institute Conference of 2022** | May 2022 | Halifax, Nova Scotia
 - ♦ Presented a poster: *Learning Together: Defining and applying values of a transdisciplinary early career research community* by IllinniaKatigenniik
- **Attended World's Small Scale (4WSFC)** | June 2022| Saint John's Newfoundland and Labrador
- **Sustainable Ocean Conference 2022** | Virtual | September 2022
 - ♦ Presented recording: Graduate Project: *Marine-Based Research in a Changing Climate: Lessons and Methods for Community Engagement from Nunatsiavut Canada*
 - ♦ Submissions Committee co-lead
- **Presented Making Waves** | December 2022 | Halifax, Nova Scotia

Hybrid presentation of Graduate Project: *Marine-Based Research in a Changing Climate: Lessons and Methods for Community Engagement from Nunatsiavut Canada*
- **Torngat Joint Fisheries Board Annual Fisheries Workshop** | December 2022 | Goose Bay Newfoundland and Labrador, Canada
 - ♦ Took notes at the annual fisheries workshop where members of the board (NG, DFO, and Nunatsiavut representatives discussed shrimp, ground fish, and crab quotas
 - ♦ Helped facilitate a 3-day morning *Fisheries Visioning* workshop led by Dr. Rachael Cademan. During this workshop the board members were asked questions about the future they envisioned for the fisheries of Nunatsiavut depending on if it was centered on a given value identified by participants in previous interviews. The value options were environmental, community/culture based, long-term advancement of Nunatsiavut Governance and Economic/Fisheries Success.
- **Ukalagalak: Knowledge Forum** | Spring 2023| Hopedale and Postville Nunatsiavut, NL Canada
 - ♦ The first of a series of events where we share and discuss with the community and learn from them as well as share research projects
 - ♦ An evening of open house and all-day open house in addition to weekend events on the land and a reflection session, the goal was to share with community members what the Sustainable Nunatsiavut Futures Project is doing, and plans to do and discuss with them areas of interest to directly partner and build relationships
 - ♦ Presented on Future Char work and Collected Questions of interest from community members on what types of projects they would like to see related to the char fishery and food security
- **People and the Sea Conference** | June 2023 | Amsterdam, Netherlands
 - ♦ Presented *Marine-Based Research in a Changing Climate: Lessons and Methods for Community Engagement from Nunatsiavut Canada* to social scientists from around the world with the goal of discussing how interdisciplinary large-scale projects rooted in science engage communities on the ground
- **DAMS Panel: Meet a Graduate Student** | February 28, 2023 | Dalhousie University, Halifax, Nova Scotia
 - ♦ A Q and A session where I provided advice to prospective graduate students (in undergrad biology) on paths they could take and applying to graduate programs in marine biology
- **MMM Alumni Panel** | October 5, 2023 | Dalhousie University, Halifax, Nova Scotia
 - ♦ A Q and A session where I provided advice to incoming Master of Marine Management (MMM) Students. The purpose was to show career options after the program is completed. It was also to provide internship advice and general professional advice.
- **Guest Lecture** |October, 2023| Remote Dalhousie University, Turo Location, Nova Scotia

- ♦ Presented a 40 minute talk with 20 minute Q and A to a Marine Coastal Management course at Nova Scotia Community Colleges (NSCC), provided an overview of the char fishery in Nunatsiavut including history
- **Guest Lecture** | February, 2024 | Dalhousie University, Halifax, Nova Scotia
 - ♦ Presented to undergraduate students for OCEA 4402: Marine Management-Fisheries Module
 - ♦ A 45 minute talk with 20 minute Q and A provided an overview of the char fishery in and values associated with Nunatsiavut fisheries
- **Guest Lecture** | March, 2024 | Remote | REEFS Lab Lancaster University, UK
 - ♦ An Informal Presentation to a fisheries, food security and reef lab in the United Kingdom, content included Nunatsiavut context, the importance of the char fishery and current status of my research
- **World's Fisheries Congress of 2024** | March 2-7, 2024 | Seattle, Washington, USA
 - ♦ Assisted in note taking and facilitating a workshop entitled *Reckoning with Colonialism and Fisheries: First Steps for Researchers*
 - ♦ Attended ceremonial feast in a networking event with Institute for the Oceans and Fisheries Lab
- **Annual Dalhousie Robert Lett Symposium** | March 12, 2024 | Halifax NS, Canada
 - ♦ Presented in Fish and Fisheries: Iku
- **CDOGS Marine Biology Conference**
 - ♦ Presented in
- **Presented Turtle Island Indigenous Science Conference** | May 21-23, 2024 | Regina, Saskatchewan
 - ♦ *Reshaping Research Paradigms: Insights from a Large Scale Project Based in Nunatsiavut, Labrador Canada*
- Nerd Nite Presentation: Propeller Brewing
- **Presented American Fisheries Society Conference** | September 16-19 | Honolulu, Hawaii
- **Presented Ocean Tracking Network Annual Conference** | September 24-26 | Halifax, Nova Scotia
- **Guest Lecture Saint Mary's University** | November 1 | Halifax, Nova Scotia

RELEVANT COURSES

Undergraduate:

- Introduction to Environmental Studies | Spring 2017 | Whitman College
- Biological Principles | Fall 2017 | Whitman College
- Elementary Statistics | Fall 2017 | Whitman College
- Animals in the 19th Century | Fall 2017 | Whitman College
- The Biological World | Spring 2018 | Whitman College
- Natural History and Ecology | Spring 2018 | Whitman College
- Global Environmental History | Spring 2018 | Whitman College
- What Remains? *Colonialism, Collecting & the Production of Knowledge* | Spring 2018 | Whitman College
- Marine Mammal Anatomy and Physiology | Summer 2018 | UC Berkeley
- Methods of Environmental Analysis | Fall 2018 | Whitman College
- Marine Environmental History | Fall 2018 | Whitman College
- History of Ancient Mediterranean/Greece | Fall 2018 | Whitman College
- Pacific Whaling History | Fall 2018 | Whitman College
- Animals and Philosophy | Spring 2019 | Whitman College
- Historical Methodologies | Spring 2019 | Whitman College
- European Environmental History | Spring 2019 | Whitman College
- Independent Study in Marine Mammal History | Fall 2019 | Whitman College
- Politics of Salmon | Fall 2019 | Whitman College
- Topics in Comparative History | Fall 2019 | Whitman College

- Powerful Artifacts of Greece and Rome | Fall 2019 | Whitman College
- Environmental Citizenship and Leadership | Spring 2020 | Whitman College
- Animals in Greek and Roman Thought | Spring 2020 | Whitman College

Masters:

- Blue Planet 1 | Fall 2021-Winter 2022 | Dalhousie University
- Marine Management Skill Development | Fall 2021 | Dalhousie University
- Community Based Co-management | Fall 2021 | Dalhousie University
- Blue Planet II | AUD | Winter 2022 | Dalhousie University
- Contemporary Issues in Ocean Management Part 1 and 2 | Fall 2021-Winter 2022 | Dalhousie University
- Marine Science and Technology | Winter 2022 | Dalhousie University
- Fisheries Management | Winter 2022 | Dalhousie University
- Indigenous Perspectives and Environmental Management | Winter 2022 | Dalhousie University
- Community Engaged Research Methods | AUD | Fall 2022 | Dalhousie University
- Coastal Zone Management | Fall 2022 | Dalhousie University

PhD:

- Fisheries Science Biology Module (Winter 2023)
- Self Studied Bayesian Statistical Analysis (Winter 2023)
- Online R course for ecologists (Winter 2023)
- Science and Communication (Fall 2023-Winter 2024)
- Spatiotemporal Ecology (Fall 2023)
- Bioacoustics Animal Telemetry (Winter 2024)

WORK EXPERIENCE

TEACHING ASSISTANT: MARA 5021

FISHERIES MANAGEMENT

MARINE AFFAIRS SEPTEMBER 2024-PRESENT

SUSTAINABLE NUNATSIAVUT FUTURES PROJECT

PHD JANUARY 2023 – PRESENT

- Attends regular meetings about projects related to a variety of Nunatsiavut-based projects focused on monitoring a changing climate
- Spent three weeks at the Arctic char monitoring station in Nain Nunatsiavut as the start of a four year project to monitor Arctic char populations to support Inuit-led management of the fishery and food security and also presented on community engagement interview work
- Helped organize and attended the 2023 knowledge form (uKalagaalak) in Hopedale and Postville Nunatsiavut where I spoke to community members about the char project

IlinniaKatigennik member and Student Liason

- ♦ Acted as student liaison planning and organizing the uKalagaalak of 2023 for work package one on (community engagement) in the region
- ♦ IlinniaKatigennik member, took meeting minute notes

TEACHING ASSISTANT: MARA 5011

CONTEMPORARY ISSUES IN THE MARINE ENVIRONMENT PART 2

MARINE AFFAIRS JANUARY 2024 – APRIL 2024

- ♦ Working to answer one-on-one questions from students.
- ♦ Marking and evaluating assignments submitted by second year Marine Management Masters students focused on marine policy development and public presentations

TEACHING ASSISTANT: OCEA 4001

MARINE MANAGEMENT AUGUST 2022 – DECEMBER 2022

- ♦ Marking and evaluating interdisciplinary assignments submitted by fourth year oceanography students focused on analytical frameworks, and marine based topics.

SUSTAINABLE NUNATSIAVUT FUTURES PROJECT

INTERN | VIRTUAL | MAY 2022 – PRESENT

- ♦ Interviewed scientists, NGO representatives, community members and Nunatsiavut government officials to conduct a project-wide assessment on how Indigenous-scientist research partnerships can advance on the ground community goals.
- ♦ Explored strategies and identifying barriers to community engagement to explore how research conducted in the region can best support Inuit community goals in the context of the marine environment and a changing climate.
- ♦ Met and discussed broader Arctic research partnerships in the region and comparing it to project initiatives.

OAKLAND ZOO

INTERN | OAKLAND, CA | MAY 2019-AUGUST 2019 (288 HOURS)
| MAY 2018-AUGUST 2018 (288 HOURS)

- ♦ Worked with: Crowned lemurs, ring-tailed lemurs, rabbits, goats (Lamancha, Nubian, Boer, Pigmy breeds), sheep and Forrest Guinea Hogs, Cotton-top Tamarins, White-nosed Coati, flamingos, spoonbills, siamang, sun bears, Muntjac deer, wallaroos, and Emus.
- ♦ Educated zoo visitors about the animals and their natural history.
- ♦ Observed and participated in training the animals.
- ♦ Assisted staff with preparing diets, cleaning enclosures, and providing enrichment for the animals.
- ♦ Designed, constructed, and implemented enrichment device for Crowned lemurs and Cotton-top Tamarins.

MARINE MAMMAL CENTER

INTERN | SAUSALITO, CA | SUMMER 2017 (OVER 250 HOURS)

- ♦ As a docent educated visitors about the center's mission.

- ♦ As a *Climate Change Interpreter* educated visitors about ocean environments, climate change, and ways to reduce our carbon footprint in daily life.
- ♦ As a member of *Sunday Day Crew*, worked in animal care with harbor seals, sea otters, northern elephant seals, California, and stellar sea lions.
- ♦ Participated in necropsies and research with MMC scientists and staff.
- ♦ Observed and assisted medical staff with veterinary procedures including admit exams, blood draws, eye surgery, flipper reconstruction, and release exams.
- ♦ Assisted with release of rehabilitated animals back into the ocean.

MARINE MAMMAL CENTER

YOUTH CREW (VOLUNTEER) | SAUSALITO, CA | FEBRUARY 2015 – AUGUST 2016 (600 HOURS)

- ♦ Worked as an educator at *Camp Sea Quest*.
- ♦ Prepared fish formula; restrained and tube-fed sea lions, fur seals, and juvenile elephant seals.
- ♦ Cleaned pens and organized supplies for sick and injured marine mammals undergoing rehabilitation.
- ♦ Administered medications (in fish) to patients.
- ♦ Updated patient charts, weighed animals, and assisted vets with outdoor medical procedures.

SKILLS

- ♦ Computer skills include Microsoft Office and statistical analysis, modeling, qualitative coding (ARCGIS, StatKey, RStudio & NVivo).
- ♦ Trained in Ethics (TPCS-CORE2)-Ethical Research Involving Humans | Panel on Research and Ethics
- ♦ Trained in environmental and historical analysis methods.
- ♦ Advanced marine mammal animal husbandry and basic emergency medicine training from the Marine Mammal Center.
- ♦ Animal behavior, enrichment, and zoological conservation training from the Oakland Zoo.

ADDITIONAL SOCIAL:

Linkedin: [Dylan Seidler](#)

REFERENCES

Megan Bailey

Professor Marine Affairs Program
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Additional References Available Upon Request