

Jenna Scott

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PROFESSIONAL EXPERIENCE

GIS Intern, Feaver's Lane

July 2026 – Present

- Support the GIS consulting team on holistic land-use planning, improving biodiversity information, and effective protected areas planning.
- Learn and apply GIS technologies and spatial analysis for wetland delineation and hydrologic network connectivity/flow quality assurance.
- Support municipal planning and management including information for zoning decisions and climate adaptation.
- Participate in business development activities, including networking, strategizing and proposal development.

Chair, Kelligrews Ecological Enhancement Program (KEEP), NL

November 2023 - Present

- Oversee the Board of Directors for KEEP, an environmental NGO dedicated to conserving the watersheds and local environment of Conception Bay South.
- Arranged and led ~17 monthly group meetings via Zoom, planned meeting agendas.
- Presented PowerPoint slideshow on group activities at the 2024 Annual General Meeting.
- Networked with the Government of Newfoundland to install a MEMP water monitoring unit at Kelligrews River for monitoring siltation issues.
- Acted as a judge for the NL Science and Technology Fair for secondary students.
- Developed a new KEEP website using Wix Studio.
- Purchased and operated DJI Mini 3 drone to locate the source of siltation issue in Kelligrews River.
- Listened to concerns of Board members regarding 8 new quarry proposals in CBS, drafted response letters to provincial and municipal government to encourage increased remediation work.
- Persuaded stakeholders to decline the 2024 Red Bridge Road quarry proposal for conservation purposes.
- Participated in CBS Parks Commission, Freshwater Working Group, Wetland Policy Working Group meetings.
- Planted trees along Gateway Trail for TD Tree Days event.
- Regularly checked and responded to the organization's emails.

Conservation Technician, Institute for Wetland and Waterfowl Research (Ducks Unlimited Canada)

Principal Investigator: Dr. Matthew Dyson

Brandon, MB

May - August 2025

- Collected data to study the effect of Prairie Pothole land use change and wetland health on waterfowl breeding productivity.
- Planned logistics of field work days.
- Operated DJI Matrice 300 RTK drone, designed flying missions for orthographic land surveys.
- Measured amount of methane released from wetland soils using a "bubble trap."
- Performed administrative tasks such as contacting landowners, field vehicle maintenance, tracking supply expenses.
- Lifted heavy equipment weighing 75lbs.
- Completed all of the tasks from the 2024 field season below.

Camrose, AB

April - August 2024

- Set up eDNA water filter apparatus for 3 locations each at 50 wetland basins.
- Assisted with set-up of DJI Matrice 300 RTK drone.

- Detected waterfowl from drone infrared camera imagery.
- Collected, entered, managed, and annotated data from drones, camera traps, ARUs, and invertebrates.
- Interpreted wetland inundation from drone aerial imagery, navigated and identified sites with maps.
- Verified correct species ID and number of observations during drone waterfowl surveys. Detected possible errors in data spreadsheets and corrected as needed.
- Identified waterfowl/bird species. Recorded sex, numbers, and class of duckling for survey observations.
- Programmed 10-30 camera traps and ARUs. Deployed in wetland and upland locations across 5 sites.
- Collected water in amber bottles to test for pesticides, nutrients, and general water chemistry.
- Used syringes to obtain ambient air and dissolved gas samples to test for GHG presence.
- Calibrated and troubleshooted Hanna water meter. Assessed wetland water quality parameters.
- Classified wetlands, including inundation, permanence class, cover type, vegetation.

Nature Interpreter, Salmonier Nature Park, Government of NL

May - October 2023

- Performed daily trail roves to answer questions from the public regarding wildlife undergoing rehabilitation in the park.
- Greeted visitors and answered phone calls at the front desk.
- Conducted little brown bat surveys by bat houses, to monitor spread of white-nosed syndrome.
- Installed mist nets and harp traps to capture little brown bats.
- Recorded measurements of bat mass, forearm length, sex, age, wing index, and PIT tag number.
- Hiked to sites of endangered boreal felt and graceful felt lichens. Recorded quadrant, length, width, mite damage, attachment, and necrosis stage of lichens.
- Educated youth group audiences of 20-60 people by giving outreach talks on little brown bats.
- Gave “prop talks” on the trail, allowing visitors to see, touch, and learn about animal pelts.

Field Technician, Ecosystem Ecology Lab, Memorial University

May - August 2022

Principal Investigator: Dr. Shawn Leroux

- Collected data to determine the effect of cumulative ecological disturbances, such as hyperabundant moose herbivory, spruce budworm infestation, and wildfires on boreal forest carbon storage in NL.
- Travelled across NL to 46 plots in Terra Nova and Gros Morne National Parks for 2 months.
- Digitized moose meadow catchments in QGIS from satellite imagery and existing spatial layers. Interpreted environmental features and worked with multi-layer spatial datasets.
- Implemented four 1x5m, 3x3m, 0.5x0.5m ground plots for tree, shrub, and ground surveys at each site.
- Identified plant species for vegetation surveys. Measured and recorded vegetation height, percent cover, and canopy cover to estimate vegetation biomass for calculating forest carbon storage. Used hypsometer.
- Extracted soil cores using a stainless steel probe. Inserted underground PRS probes for soil nutrient analysis. Retrieved using GPS waypoints.
- Set up Li-Cor technology to record soil respiration measurements.
- Used HOBOWare software to upload data from HOBO data loggers.
- Collected water and benthic invertebrate samples at river sites to determine the effect of hyperabundant moose herbivory and ATV use on river health.
- Recorded CABIN measurements such as bank width, wetted width, river velocity, depth, substrate characteristics, 100-pebble count, canopy cover.

EDUCATION

BSc. (Honours) Biology, concentration in Applied Ecology and Conservation, Memorial University of Newfoundland, 2023

Honour's thesis: "The effects of Atlantic puffin (*Fratercula arctica*) and Leach's storm petrels (*Hydrobates leucorhoa*) on plant community composition." Presented at Science Atlantic Conference, UNB, March 2023

Notable courses:

GEOG 2195 Introduction to Geographic Information Science

GEOG 3260 Introduction to Geographic Information Systems

BIOL 4605 Quantitative Methods in Biology

BIOL 4607 Models in Biology

GIS ACADEMIC PROJECTS

Memorial University of Newfoundland

2022-2023

- Used QGIS (2.38 Firenze) to import and manage vector and raster spatial datasets (CSV, shapefiles, GeoPackage), including GPS waypoint data and environmental layers.
- Applied Coordinate Reference Systems (CRS; WGS84) for spatial accuracy across datasets.
- Designed and produced map layouts with appropriate symbology, labelling, scale bars, and cartographic elements. Adjusted layer properties.
- Georeferenced vector imagery with raster data in QGIS by aligning to known coordinate systems using control points.
- Collected georeferenced field waypoints using Guru Maps app to synchronize datasets back into QGIS.
- Used Sentinel-2 multispectral data to create a layout comparing different colour band maps.
- Created a grid-based habitat classification map of an intertidal pool in QGIS by interpreting imagery and assigning land cover/species categories to spatial units.
- Used NDVI dataset to create map layouts of vegetation health on the Avalon Peninsula.
- Conducted spatial modelling using PVOUT dataset, used SQL expression builder tool, created and cleaned up raster histogram.
- Sorted and exported attribute tables to Excel.