

PAOLA VINCENT

pvincent@feaverslane.com | (709)749-1949 | Petty Harbour, NL | July 2021

SPATIAL ANALYSIS & CONSERVATION PLANNING PROJECTS

- **GIS-based Connectivity Framework (in progress):** Research, development, and piloting of a flexible framework to provide decision support for the Ontario Waterways field unit of Parks Canada to support their multi-faceted management role within the Trent-Severn and Rideau Canal Waterways. The framework is primarily focused on aquatic and ecosystem connectivity but allows for the inclusion of heritage, recreational, and other values. Workshops and a pilot study on turtle movement corridors were undertaken in conjunction with the client to demonstrate the framework, and there will be ongoing opportunities to work with and mentor staff in additional applications.
- **Historical VHF Marbled Murrelet Datasets:** Contract for Environment and Climate Change Canada to assemble VHF telemetry datasets of Marbled Murrelet movement based on data collection performed from 1998 to 2002 in Clayoquot Sound and Desolation Sound, British Columbia. Data was collected across many different sources and compiled into datasets to be shared on Movebank. Sources were quality checked and where necessary processed to derive location tracking data previously not available to scientists.
- **Habitat Restoration Sites Prioritization:** Multi-criteria prioritization using GIS analysis and local/expert knowledge to rank suitable capelin, salmon, and char habitat restoration and enhancement sites. This is an update to an earlier prioritization analysis and incorporates additional field knowledge and extensive work on beaver dam site candidates to be outfit with a beaver baffle / flow device by World Wildlife Fund (WWF) Canada and partners.
- **Fisher's Knowledge Transformation:** Digitizing 3Ps cod fish harvesters' knowledge of cod fishing practices and changes over time. Fishing grounds and associated information were mapped by harvesters on large format paper maps. Digital spatial data and recommendations on survey methods were delivered to the Fish Food and Allied Workers Union.
- **Labrador Coastal Characterization:** Digitizing coastal characterization for southern Labrador based on a Coastal Risk Assessment report. The results are available in the NL Geoscience Atlas and are being used to support identification and prioritization of coastal habitat restoration sites by WWF Canada and the NunatuKavut Community Council.
- **Conservation Plan Analysis:** Analysis of environmental variation representation across existing and proposed protected areas on the Island of Newfoundland using ArcGIS Pro and Excel. Analyses and summary report were incorporated into a Canadian Parks and Wilderness Society official submission.
- **Marbled Murrelet Tracking and Sea Surface Temperature:** Contract for Fisheries and Oceans Canada entailed analysis of satellite sea surface temperature (SST) in raster format of 16 areas over the years 2012-2018 in the waters surrounding Vancouver Island. Software used was

ArcGIS and Excel. Statistics, data spreadsheets, maps, graphs, workflows, and summaries were all created as deliverables to project head researcher and correlated with tracking/movement information for Marbled Murrelet and their prey.

- **Coastal Change Assessment:** High-resolution mapping of beach systems in Conception Bay which required both field work and post data processing. Assisted in gathering remote sensing and elevation data and transforming raw data into comprehensive maps. UAV/drone, ROV and surveying equipment were used in the field, and Agisoft and ArcGIS were used for post-fieldwork processing.
- **Cost Path Analysis for Caribou Corridors:** An independent GIS term project exploring options for animal corridors. ArcGIS was used to map anthropogenic activities and Woodland Caribou species range near Jasper National Park. This area had two ecologically important regions for the caribou that are fragmented due to human activity. Cost path analysis tools were used to estimate the least energy pathways where Woodland Caribou could cross over major roads to connect the ranges.

EMPLOYMENT

February 2021 - Present	Geographic Information Systems Consultant, <i>Feaver's Lane Enterprise Inc.</i> Providing spatial analysis, digitization, prioritization, reporting, cartography, and related services for clients in natural resources, environment, conservation and other sectors.
December 2019 - February 2021	Geographic Information Systems Analyst, <i>Independent Contractor</i> Collaborated with and mentored by Randal Greene of Feaver's Lane Enterprises Inc. as a GIS Analyst on a per-contract basis.
May 2019 - July 2020	Research Assistant (Field & Laboratory), Department of Geography, <i>Memorial University of Newfoundland</i> Assisted in the gathering and processing of coastal elevation data and beach assessment with lead researcher Brandon Tilley and project managers Dr. Rodolphe Devillers and Dr. Norm Catto.
May 2019 - March 2020	Server, Bartender, and Host, <i>Bernard Stanley Gastropub</i> Filled many front-of-house positions at this very busy restaurant with Gastropub atmosphere.
October 2014 - March 2019	Food and Beverage Supervisor, Bartender and Server, <i>Exile Restaurant at Jag Hotel</i> Started as a server and was promoted to position which included many managerial responsibilities at this higher-end hotel restaurant and lounge.

EDUCATION

August 2019

Bachelor of Science (Major in Geography, Minor in Biology), *Memorial University of Newfoundland*

Focused on physical geography, geographic information systems, conservation, and marine biology.

SKILLS

- Completed numerous projects in **ArcGIS**: digital terrain models, 3D geovisualization, geocoding, vector and raster analysis, etc.
- Holds **Esri certificate** for 6-week online training of Cartographic Concepts using ArcGIS Pro
- Holds **Esri certificate** for 6-week online training of Spatial Data Science using ArcGIS Pro
- Knowledgeable in **QGIS** Software
- Familiar with **R** Software
- Familiar with **HTML** and **CSS**
- Attended the **Geomatics Atlantic 2020** workshops and conference offered through Canadian Institute of Geomatics
- Completed numerous high-resolution elevation surfaces in **Agisoft**
- Trained in **TileMill** for designing web-based basemaps
- Used **UAV/drone** and **ROV** technology in numerous field sites
- Experienced with **RTK GPS** equipment in surveying
- Competent in discovery, acquisition and editing of spatial data
- Completed field courses in a variety of Newfoundland environments
- Holds **Open Water Diver** certificate
- Holds **Basic Drone Operations** license
- Experienced with recreational and sea kayaking
- Extensive management, communication, problem solving, and customer service skills