

# Ayla Pearson

INTERMEDIATE COMPUTATIONAL BIOLOGIST

Poisson Consulting Ltd

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## Background

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Ayla Pearson, MDS is an Intermediate Computational Biologist with Poisson Consulting Ltd. who specializes in web development, dev ops and data analysis. She aspires to use data science to ensure the best available information is utilized when making decisions about natural resources and ensure the sustainable management of ecosystems. She was a Women in Data Science (WiDS) ambassador in 2019.

## Education

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2019	Masters in Data Science (MDS)	UBC
2015	BSc in Chemistry	UVIC
2014	Natural Resource Science Field School: Haida Gwaii Semester	UBC

## Career

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2020	Intermediate Computational Biologist	Poisson Consulting
2018-19	Intermediate Computational Biologist (Part-Time)	Poisson Consulting
2019	Office Services Supervisor and Portfolio Administrator	MFLNRORD
2017	Resource Stewardship Technologist	MFLNRORD
2015	Resource and Contract Clerk	MFLNRORD

## Recent Projects

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### Horse Lake Exploitation Study (2020 - ongoing)

Creation of R shiny app for data collection, database design, data analysis and report writing for the project to estimate Lake Trout body condition, growth, spawning, survival and stock-recruitment.

### Elk River Westslope Cutthroat Trout Abundance Pilot Study (2021)

Creation of R shiny app for data collection, database design, data analysis and report writing for the project to estimate trout abundance.

### Chilliwack Lake Bull Trout Stock Assessment (2020 - ongoing)

Creation of R shiny app for data collection and data management to assess angler use.

### Upper Pitt River Bull Trout Risk Assessment (2020 - ongoing)

Creation of R shiny app for data collection and database viewing to assess angler use and how increased effort effects Bull Trout populations.

### BC Stats - Quantifying the Responses to Open-Ended Survey Questions (2019) (Master of Data Science Capstone)

Analyzed the sentiment and automated the coding of open-ended survey questions using Natural Language Processing in Python. Evaluated the relationship between qualitative and quantitative survey data to help inform future survey design

### Data Entry - Laskeek Bay Conservation Society (2015-2018) (volunteer)

Designed a database and entered 10 years of sea bird transect data from hard copy records. Wrote and designed a manual for data entry to help standardize data entry for volunteers and reduce data discrepancies between years.

**Data Collection and Entry - Haida Gwaii Pacific Marten Study (2017) (volunteer) (Project Lead: Mellisa Todd)**

Assisted with field data collection of Pacific Marten scat, prey samples and hair from baited camera traps.

**Programmed death-1 (PD-1) / Programmed death-ligand 1(PD-L1) Inhibitor Fluoresce Polarization Assay (2012) (volunteer) (Project Lead: Dr. Jeremy Wulff)**

Tested the binding capacity of synthetic peptides to PD-L1 to help block the PD-1/PD-L1 interaction.

**Languages** \_\_\_\_\_

English, Spanish

**Interests** \_\_\_\_\_

Hiking, fishing, programming, sustainable natural resource management, law