MEGAN SORENSON

Searching for: 8 Month Coop Fall 2023

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EXPERIENCE

Muskoxen Data Project University of Calgary

August 2022 - Ongoing

♥ Calgary, AB

- Responsible for data cleaning, manipulation, and to determine which variable has the highest contribution to determining hoof health to facilitate community data collection in Northern Canada.
- Collaborative project to describe the characteristics of a healthy muskoxen hoof to ultimately create a baseline for future analyses.

Data Science Intern

University of Calgary

May - September 2021

♥ Calgary, AB

- Independent project in collaboration with the Canadian Animal Task Force (CATF) and Dogs Trust Worldwide.
- Analyzed the effectiveness of dog clinics over time using canine clinic data.
- Outlined changes for the organization's data colection methods to improve the quality of future assessments; feedback implemented in 2022 clinic data collection.

Sustainability R&D Co-op

Gaia Protein

🗎 January - June 2021

♀ Calgary, AB

- Provided the literature basis for improving the sustainability and efficiency of cricket farming practices within the company.
- Created a handbook used for new-hires at the company as of June 2021.

PROJECTS

Canine BCS Approximator [Abstract]

May - September 2021

- Developed a novel method for accurately approximating canine body condition score (BCS) using canine data and historical growth curves.
- Created opportunities to assess the impact of dog clinics where BCS data was not collected from veterinarians and volunteers.
- <u>Utilized:</u> R, Python, Statistics, Data Science

Optimal Shipping Routes in the Atlantic [GitHub]

September 2021 - January 2022

- A GIS project that utilized historical datasets by creating optimal shipping routes that avoid 90 percent of zooplankton hotspots.
- Contributed to the academic knowledge base by developping a cost-surface raster layer that was minimized for distance and plankton abundance.
- Utilized: ArcGIS Pro, Spatial Statistics, Story Maps, Python

Arthropod Data Project [GitHub]

September 2021 - January 2022

- Determined whether there was a correlation between climate variables and insect abundance using two decades of presence/absence data.
- Applied bootstrapping methods to find what combination of temporal climatic events would result in a boom/bust for an insect group.
- Utilized: R, Data Science, Data Visualization

EDUCATION

3rd Year Bachelor of Computer Science (BCS)

University of British Columbia

September 2022 - May 2025

BSc. Environmental and Conservation Sciences in Conservation Biology

University of Alberta, GPA: 3.7

September 2017 - May 2022

SKILLS/COURSEWORK

Python R I	HTML CSS Java	JavaScript
Git/GitHub LaTeX		
GIS Pygame	dplyr tidyverse	ggplot2
Spatial Statistics Data Visualization		
Data Cleaning	Regression Analysis	

OTHER WORK

Head Teaching Assistant University of Alberta

September 2020 - May 2022

- Lead a laboratory session of 20 undergraduate students in the Department of Renewable Resources.
- Created teaching materials, lectured material, and graded tests and assignments.

Student Group President UAZC

September 2020 - May 2022

- President for the University of Alberta's undergraduate zoology club.
- Responsible for managing other executive members and planning meetings.

Fridge Poetry App [Web App]

August 2022 2022

 A simple web application made using HTML, CSS, and JavaScript where you can create and share fridge poetry.

Treason: a Pygame [GitHub]

Hanuary 2022

 A multi-level shooting game made using Python's Pygame module which increases in difficulty as the player progresses.