# **MEGAN SORENSON**

#### Searching for: Coop Fall/Winter 2023

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### **EXPERIENCE**

#### **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**

#### World Of Wordle Java Application

September 2022 - Ongoing

- A wordle-inspired Java application where players can choose to guess one, two, or three words simultaneously while trying to maximize their score.
- Includes serialization of game state to allow time-interupted playing of a single game.
- Implemented both a terminal-based UI and GUI.
- Utilized: Java, JUnit, Software Construction

### 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.
- Utilized: 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

# SKILLS/COURSEWORK



# **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 and lectured material, supervised fieldtrips, and graded exams.

#### **Battlesnake Competition Team Member UBC** Data Science Club

September 2022 - Ongoing

- Using reinforcement learning to compete in a 2D grid world against multiple other agents.
- Aiming to participate in the Winter 2023 competitive season.

#### NASA Space Apps Web App [GitHub] Cotober 2022

- A JavaScript game made using Phaser 3 that lets the player collect space garbage while avoiding obstacles generated using real solar data.
- Created during the 2022 NASA Space Apps Hackathon.

### Fridge Poetry App [Web App]

August 2022

- A simple web application made using HTML, CSS, and JavaScript where you can create and share fridge poetry.
- Created during the 2022 Ignition Hacks Hackathon.