Jocelyn Pender

BIODIVERSITY DATA ANALYST

Details

pender.jocelyn@gmail.com

jocelynpender.github.io

Skills

Data Analysis

Data Science

Programming (R, Python, SQL)

Leadership and Teamwork

Compassion

Empathy

Speaking

Effective Teaching

Scientific Writing

Adaptation

Curiosity

Languages

English

French

Hobbies

Swimming in lakes, cycling in the Gatineau hills, snapping photos of plants with iNaturalist, weight training, non-fiction reading and podcasts

Profile

I believe in the **power of data** to combat biodiversity loss. I use a **compassionate approach** to spread knowledge of data management, biodiversity science and empowered leadership.

Employment History

Conservation Data Analyst at the Atlantic Canada Conservation Data Centre, Remote

JULY 2021 — PRESENT

- I respond to requests for AC CDC data, prepared datasets for load into our database, and begun work on several **workflow optimization** projects
- I love writing high-quality documentation, automating workflows, improving internal data standards, and establishing good **communication channels** with our clients and data providers
- I enjoy building spatial models like **species distribution models**

Biodiversity Data Manager at Agriculture and Agri-Food Canada, Ottawa

SEPTEMBER 2017 — JULY 2021

- I launched the **Flora of North America knowledge platform** with my team. I implemented project management tools, delivered workshops (e.g., at Botany 2020 and Botany 2021), designed the site's appearance and discovered and fixed website bugs. In May, the site had 11.9K users globally
- I developed API wrappers in **R and Python** to enhance the programmatic accessibility of structured Flora of North America data (e.g., taxonomy, distribution, morphology)
- I founded and led a lunch and learn series called **'Data Chats'** where scientists learn, practice and discuss data management, data analysis and data science techniques relevant to biodiversity science

Data Analyst at Fullscript, Ottawa

APRIL 2016 — AUGUST 2017

- I provided **front-line access to data reports and visualizations** by issuing SQL queries to relational databases and designing Tableau dashboards daily
- I implemented **procedures for efficient prioritization** of incoming data requests from internal and external customers where none existed before

Research Assistant at the Canadian Museum of Nature, Ottawa

JANUARY 2011 — AUGUST 2011

- I developed **species distribution maps** using ArcGIS 10 by collecting data from herbarium specimens and georeferencing localities using Google Earth, BioGeomancer and geoname databases
- I developed **tutorials on georeferencing, mapping and using MaxEnt** for species distribution modelling to be used by future lab members

Education

M.Sc. Biology Specialization Bioinformatics, Supervised by Dr. Julian Starr, University of Ottawa, Ottawa

SEPTEMBER 2013 — MARCH 2016

In collaboration with scientists at Chicago's Morton Arboretum, I investigated the evolutionary past of *Carex* using **morphological, molecular, habitat** and **distribution data**. My work resulted in two scientific publications.

B.Sc. Environmental Science Specialization Biodiversity, Summa Cum Laude, University of Ottawa, Ottawa

SEPTEMBER 2008 — MAY 2013

I completed courses in geological data analysis, geomatics and advanced GIS.

Recent Professional Development

Dr. Roberta Bondar STEM Career Development Program Participant, Virtual

MAY 2021 — PRESENT

Deep Learning for Natural Language Processing, Learning Tree International, Virtual

FEBRUARY 2021

Selected Volunteering History

16th Ottawa Girl Guides Volunteer, Ottawa

JANUARY 2016 — PRESENT

- My role allows me to impart **my passion for nature, science, female empowerment and curiosity** to a group of 30 girls aged 9-11