

Summary

Researcher with experience in Python, data science & NLP, causal inference, and consulting. Career highlights include leading international projects at the Jain Family Institute, collaborating with academics at Oxford and UBC, and consulting on high-stakes environmental energy projects for the government of British Columbia.

Technical Skills

- Python, Git, SQL, Excel, R, JS/TS/React
- Causal Inference, NLP, Experimental Design, Regression, Probability
- polars, pandas, bs4, docker, HuggingFace, pytest, Azure, networkx, scipy, fastAPI
- Plotly, Matplotlib, Excel/GSheets Charting

Experience

Data Science Research Associate

2025 - Present**The Jain Family Institute**

Leading a team to conduct quantitative and qualitative/strategic research on financing the energy transition in developing economies.

Lead Developer ← Data Science Research Fellow

2023 - Present**Center for Active Stewardship**

Full stack lead developer for our **flagship database**, which makes a \$100k/year commercial product available to the public. Duties included parsing, normalizing, and correcting data from public financial filings; creating and deploying our database via a public API; and creating an interactive front-end display of the database. Utilized a wide range of tools including Python, SQL, LLMs, text embedding, clustering, FastAPI, docker, and graph algorithms.

Natural Language Processing Research Assistant

2023 - 2024**Oxford University / The Industrial Policy Group**

Spearheaded the development and improvement of text classification workflows underpinning landmark research papers,^{[1](#)[2](#)} Improving model accuracy from 87% to 94%. Derived feature importance from fine-tuned LLMs. Used LLMs to extract and normalize entity names, descriptions, and abbreviations from text. Implemented professional best practices, including version control and testing protocols.

Associate (*Data Science and Analytics Consultant*)

2021 - 2022**Deetken Insight Consulting**

Developed a comparable static CGE model to estimate the economic impacts of BC's climate policies on sectors, households, demographic groups, commodities, and more. My proposal won the \$150k bid.

Other projects included a forensic audit of a major utility's environmental/financial modelling, and a project described as "hands down one of, if not the, best consulting engagements we have commissioned."

Education

M.A. in Economics

2020-2021

The University of British Columbia

4.3 / 4.33

B.A. in Economics & Mathematics

2015-2019

The University of British Columbia

4.0 / 4.33

Interests

- Data science for good (pro-bono, etc.)
- Chess: 2100+ rating
- Prediction markets
- Cooking, reading, soccer, meditation