

PEARL AYEM

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WORK EXPERIENCE

Risilience — Lead Environmental Risk Modeller

April 2024 - present

- Leading development of **climate and nature risk** models that quantify and forecast asset-level risks and opportunities.
- Leading design and implementation of **agentic workflows** for supply chain risk that reduce release cycles from 8 to 4 weeks.
- Oversee a multidisciplinary team of modellers, economists, data scientists, and engineers to deliver end-to-end risk products.
- **Partner with Head of Product** to create roadmaps, build digital twins, and scale risk analytics into marketable SaaS products.
- Interact with global clients across asset management, underwriting, fashion, construction and technology.

Sillion — Senior Climate Risk Modeller

Dec 2023 - Mar 2025

- Lead building climate risk models that integrate with financial analytics software.
- Built dashboards and software to enable clients' reporting efforts across TPT, CSRD, SECR, TCFD/ISSB, and CDP.
- **Managed and mentored** junior analysts and consultants, aligning their work with strategic goals in climate risk and sustainability.
- **Drove business growth** and **sales** via my professional networks, cultivating strategic partnerships, and building key relationships.
- **Product Lead** for a ESG research tool tracking ESG KPIs across 600+ companies.
- Presented findings to **C-suite stakeholders and boards**, author executive reports, and trained in press and media.

Bloomberg L.P. (with GFANZ and NZDPU) — Net-Zero Data Specialist

June 2022 - Nov 2023

- **Lead data modeling and engineering** for the **NZDPU**, a free, open data platform for climate transition, directly collaborating with global leaders, such as **President Emmanuel**, and the **governments** of Switzerland and Singapore, **CDP**, and **UN**.
- **Published** two high-impact reports for **GFANZ** and **NZDPU**, with **partners** from ISSB, and IEA.
- **Managed team of 40 analysts** in data acquisition, transformation, and analysis for GFANZ's data launch at COP27.
- Supported CTO with RFP processes, vendor evaluation, and management of engineering contractors.
- Helped secure **partnerships, including with CDP** for **10,000+** companies to be hosted on the NZDPU platform.
- Built **ETL pipelines** for ingesting data across many providers, did **API development**, and wrote transformation scripts.
- Delivered briefs and insights on **~700 climate KPIs** for **Bloomberg's CEO** to present at COP27.

University of Cambridge, British Antarctic Survey - Climate Science Researcher

Oct 2021 - June 2022

- Conducted **fully-funded research** on atmospheric drivers of Antarctic surface melt.
- Experience with **multi-dimensional, geospatial data**, academic research, writing papers, and conference presentations.
- Tech stack included: xarray, pandas/geopandas, scipy, pyproj, netCDF, HDF5, Rasterio, GDAL, Shapely, sklearn, EOF, Fiona, plotly, cartopy, matplotlib etc. Experience working with climate RCP scenarios.
- **Featured in media** on Cambridge's **website** and **social media** for my work on diversity and climate research.
- My work is used as **course curriculum** at the University of Cambridge's graduate-level MPhil classes.

University of British Columbia- Team Lead for Teaching Assistants

Dec 2016 - June 2020

- **Managed a team** of 18 TAs as the Lead Teaching Assistant for Computer Science.
- Ran lectures for ~1000 students in **Python**, **C++**; created + graded course modules and labs.
- Helped pilot a new data science course; taught **Climate Data Computing** and **contrast stretching** using satellite imagery.

UAViation Aerial Solutions — Geospatial Engineer

July 2018 - Sep 2019

- **Project lead** for drone flight automation + **LIDAR drone** mapping in Western Canada (BC, Alberta, Yukon).
- Worked with the Canadian government, search and rescue, BC Wildfire Services, CBC, etc.
- Reported directly to the CEO. My work led to a **successful exit** (company acquisition - now a part of Volatus Aerospace)

EDUCATION

University of Cambridge- MPhil, Polar Studies -Atmospheric Physics

Cambridge, UK

- Won a **full scholarship** - only awarded to the **top applicant**

University of British Columbia - BSc in Atmospheric Science

Vancouver, Canada

- Graduated **Top of Class**