

Jonathan Alistair Jayes

Data Scientist • Economic Consultant
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Data Scientist with a PhD in Economic History, skilled in developing data pipelines and implementing statistical standards like SDMX. Proven ability to lead projects transforming complex data into accessible, actionable insights for policy-relevant analysis. Eager to apply my expertise in data structuring and management to enhance the IEA's critical energy statistics as Statistical Database Content Manager.

Work Experience

Codera Analytics

Lund, Sweden

Data Scientist

12/2022 - Present

Led various data science projects, including managing clients and overseeing a team of three

- Led the development and successful testing of an AI-powered MVP to automate data extraction from diverse corporate reports, reducing manual processing time by ~80%
- Developed and implemented an SDMX-compliant ingestion pipeline for South African Reserve Bank (SARB) and National Treasury financial statistics, utilising Python for ETL processes and SQL for rigorous data validation, ultimately making key verified datasets publicly available on the Codera Analytics platform.
- Engineered a scalable data pipeline incorporating >60 web scrapers and robust database architecture to systematically collect, process, and store complex public finance documents in Africa

Fathom Data

Lund, Sweden

Junior Data Scientist

01/2022 - 03/2022

Contributed to developing a data product analyzing scraped consumer pricing trends

- Developed an automated reporting pipeline using SQL and R to analyze scraped consumer pricing and volume discount data; contributed to commercial strategy by identifying potential client segments based on geographic data coverage

FTI Consulting South Africa

Cape Town, South Africa

Junior Competition Economics Consultant

03/2019 - 01/2020

Supported senior economists on competition cases, trade disputes, and industry assessments while developing my analytical skills:

- Drafted sections and compiled supporting evidence (incl. data visualizations) for the economic report on a 2-to-1 ostrich merger, contributing to analyses of market definition and competitive effects.
- Executed detailed analysis of South African poultry imports using 8-digit HS code data in Stata/Excel, identifying key trends in volume and pricing relevant to a trade dispute
- Mapped and analyzed complex mobile data pricing structures across operators, identifying patterns in market segmentation and bundle differentiation to support the team's industry assessment
- Developed an interactive Excel-based dashboard modeling palliative care funding scenarios, quantifying potential cost savings and patient outcome variations

Education

PhD in Economic History

Lund University

2021 - 2025

Planning to defend my thesis in October 2025.

- Designed and implemented a novel AI pipeline automating the extraction and structuring of data from historical biographical dictionaries, reducing manual transcription time by 3 months

Masters in Economics

Stellenbosch University

2020 - 2021

Graduated with distinction.

Honours in Economics and Bachelors in Social Science

University of Cape Town

2015 - 2018

Dean's Merit List. Top mark in my year for four courses.

Skills

Technical Skills

- Data Analysis and Econometrics: Stata, Python (Pandas, Polars, scikit-learn), R (tidyverse, tidymodels), Advanced Excel, SQL
- AI/LLM Application: Experience using APIs (OpenAI, Gemini, Claude) for automated data structuring
- Cloud & Automation: Google Cloud Functions, AWS Lambda, GitHub Actions
- Currently Learning: Docker

Languages

English (native), Swedish (B1), French (A2).

Interests

Running, Geoguessr, and international trade.