

Jonathan Alistair Jayes

Data Scientist • Economic Consultant
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Data Scientist and PhD in Economic History, combining rigorous economic training (Microeconomics, IO focus) with advanced data science proficiency. Expertise in applying empirical analysis and AI techniques to extract insights from complex data. Seeking a role as a database content manager at the OECD to leverage my skills in data structuring and analysis.

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%
- Managed the complete lifecycle of a large-scale public finance data project for Africa, from successful bid to delivery of a structured dataset covering thousands of documents
- Engineered a scalable data pipeline incorporating >60 web scrapers and robust database architecture to systematically collect, process, and store complex public finance documents

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

Planning to defend my thesis in October 2025.

2021 - 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

Graduated with distinction.

2020 - 2021

Honours in Economics and Bachelors in Social Science

University of Cape Town

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

2015 - 2018

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.