

# Jonathan Alistair Jayes

Data Scientist • Economic Consultant

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PhD candidate in Economic History (Lund University, exp. Oct 2025) 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 data analyst role to advance my career.

## Work Experience

### Codera Analytics

Lund, Sweden

Data Scientist

12/2022 - Present

Led various data science projects, including pitching to clients and managing a small team

- 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.