

# Jonathan Alistair Jayes

Data Scientist • Economic Consultant  
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Data Scientist and PhD student in Economic History, curious, and skilled in telling stories with data. Proven ability to lead projects transforming complex data into accessible, actionable insights for policy-relevant analysis. Eager to apply my expertise in structuring data to support economic research and policy development. I will be defending my PhD thesis in October 2025, with a focus on the application of AI in historical data extraction.

## Work Experience

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### 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
- 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

## Education

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### 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
- Applied Natural Language Processing (NLP) techniques for analyzing biographical dictionary data to study skilled labor origins and career trajectories.
- Compiled and processed large-scale historical datasets, involving digitization, data cleaning, geocoding, and the use of classification schemes (HISCO, HISCLASS) for occupational data.
- Taught a course on Stata skills and map making

### 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

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### 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.