

Jonathan Jayes

Data Scientist · Economic Historian

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Full stack data scientist. Preferred tools: Python for data wrangling, R for visualisation, SQLite for read only databases, OpenAI API for formatting unstructured data, Google Cloud Functions and GitHub Actions for ML Ops.

Education

PhD in Economic History

Lund, Sweden

Lund University, School of Economics and Management. Thesis supervised by Prof. Kerstin Enflo. Examining winners and losers of technological change during the electrification in the 20th century.

2021 - 2025

Master's in Economics (cum laude)

Stellenbosch, South Africa

Stellenbosch University. Researcher at the Laboratory for the Economics of Africa's Past. Submitted 'A Century Later: Lessons from the Spanish Flu Pandemic of 1918' to the South African Presidency.

2020 - 2021

Honours in Economics

Cape Town, South Africa

University of Cape Town. Class medalist in Policy Analysis. Core courses: macroeconomics, microeconomics, econometrics, and mathematics for economists.

2018

Bachelor's in Social Science

Cape Town, South Africa

University of Cape Town. Economics and Economic History. Dean's Merit List for three years. Class medalist in Microeconomics, Twentieth Century Industrialization, and Empires and Modernities.

2015 - 2017

Publications

Health inequality and the 1918 Spanish flu in South Africa

World Development
Special Issue

Co-authored with Johan Fourie. DOI: 10.1016/j.worlddev.2021.105407.

2021

Data Blog

interludeone.com

Showcases personal data science projects.

Ongoing

Work Experience

Data Scientist

Remote

Codera Analytics. Automated collection of macroeconomic and ESG data, visualization of provincial revenue and expenditure trends.

December 2022 -
Present

Junior Data Scientist

Remote

Fathom Data. Created automated Rmarkdown reports, presented a session on code generation for commercialization of data products.

January 2022 - March
2022

Quantitative Analyst

University of
California, Berkeley

Research assistant to Prof. Barry Eichengreen. Conducted NLP analysis for a study on South Africa's Gold Standard and Great Depression.

June 2020 - February
2021

Junior Consultant

FTI Consulting. Led a pro bono project on economic impact assessment, contributed to expert reports in telecommunications, oil, and poultry industries.

*Stellenbosch, South
Africa*

*March 2019 - January
2020*

Financial Director and Debating Coach

Thethani Debating League. Managed budgets, organized tournaments, and coached debating workshops. Awarded Investec UCT Student Leadership Awards.

*Cape Town, South
Africa*

*February 2016 -
November 2018*

Skills

Data Science Skills

Scraping and cleaning data, visualizing patterns, creating interactive dashboards, supervised and unsupervised ML.

Software

Python, R, SQLite, OpenAI API, Google Cloud Functions, GitHub Actions.

Languages

English (Native), Swedish (Intermediate), French (Learning).

Interests

Hobbies

Homebrewing pale ales, running marathons.