

Jonathan Jayes | Curriculum Vitae

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Economist and Data Scientist. I tell stories with data. Sometimes about the Spanish flu of 1918. Sometimes about the competitive effects of mergers. Sometimes about second hand car sales. Always with careful analysis and clear visualizations.

Currently studying towards at PhD in Economic History at Lund University in Sweden.

Experience

- **Fathom Data** **Remote**
Junior Data Scientist *January 2022–March 2022*
I worked part-time at Fathom Data as a junior data scientist. My work involved creating automated reports in Rmarkdown for the commercialization of a data product on consumer prices. I also presented a knowledge sharing session on producing code that writes its own code, [explained here](#).
- **Research assistant to Prof. Barry Eichengreen** **University of California, Berkley**
Quantitative analyst *June 2020–February 2021*
Working under Prof. Eichengreen I collected data and conducted NLP analysis on reports by the select committee on the Gold Standard in South Africa in 1933. This work resulted in a research paper entitled "Gold and South Africa's Great Depression", forthcoming in the *Economic History of Developing Regions*.
- **FTI Consulting** **Stellenbosch, South Africa**
Junior Consultant in Economic and Financial Consulting Practice *March 2019–January 2020*
I worked at FTI as an economic analyst in 2019. I worked as the lead on a pro bono project assessing the economic impact of an arts festival to take place in Stellenbosch in 2020, as well as contributing to expert reports for projects in the telecommunications, oil gas, and poultry industries. I worked on a precedent setting merger in the ostrich processing industry that was conditionally approved by the competition tribunal.
- **Thethani Debating League** **University of Cape Town**
Financial Director and Debating Coach *February 2016–November 2018*
I served as the financial director for the Thethani Debating League (TDL), an NPO based at the University of Cape Town. TDL teaches under-resourced high school students critical thinking skills through the medium of debating. I have coached weekly workshops, methodically managed the organization's yearly budget, liaised with funders and worked alongside a diverse committee of students and volunteers to organize, execute and evaluate 12 debating tournaments per year for three years. The TDL committee was awarded the *Investec UCT Student Leadership Awards Student Team of the Year* in 2016 for its community outreach and impact.
- **School of Economics** **University of Cape Town**
Teaching Assistant for ECO3020F - Advanced Macro and Micro Economics *February–June 2018*
In this role I worked as part of the tutor team teaching a completely new version of the third year core economics course. I facilitated tutorials and explained concepts to two tutor groups of 16 students in 12 sessions throughout the semester.

Education

Academic Qualifications.....

- **Master's in Economics (*cum laude*)** **Lund University**
 - *Exchange semester, School of Economics and Management* 2021
 - Courses included Applied Microeconometrics and Economic History: Consequences of Demographic Change. Presented my research on the Spanish flu at Lund's Development Lunch Economic History and Demography Seminar.
- **Master's in Economics(*cum laude*)** **Stellenbosch University**
 - *Student and Researcher, Laboratory for the Economics of Africa's Past* 2020–2021
 - Alongside the core courses in economics, I have worked as a researcher for the Laboratory for the Economics of Africa's Past under Professor Johan Fourie. In April 2020 we submitted a research project to the South African Presidency entitled, "A Century Later: Lessons from the Spanish Flu Pandemic of 1918".
- **Honours in Economics** **University of Cape Town**
 - *Grade - 2:1,* 2018
 - Class medalist in Policy Analysis. Core course consisted of macroeconomics, microeconomics, econometrics and mathematics for economists. Electives included Policy Analysis, Economic Challenges in Africa, South African Labour Economics and Industrial Organisation. My Long Paper examined the evolution of the gender wage gap in South Africa.
- **Bachelor's in Social Science** **Unviersity of Cape Town**
 - *Economics and Economic History. Grade - 2:1,* 2015–2017
 - Class medalist in Microeconomics (2015), Twentieth Century Industrialization (2016) and Empires and Modernities (2016). Dean's Merit List 2015, 2016, 2017.

Publications

- **Articles:** Fourie and Jayes (2021) *Health inequality and the 1918 Spanish flu in South Africa*. World Development Special Issue: Pandemics, COVID19, and Sustainability and Development. Accessible here: [10.1016/j.worlddev.2021.105407](https://doi.org/10.1016/j.worlddev.2021.105407)
- **Web apps:** Second hand car advert price explorer: [Linked here](#)
- **Data blog:** My data blog showcasing R and the tidyverse: [Linked here](#)

Technical skills

- **Skills:** I have exceptional skills at scraping and cleaning many types of data, visualizing patterns and trends, and creating interactive dashboards of the results.
- **Software:** Adept in: R Programming Language and the tidyverse, R Shiny, SQL, Stata, Excel, Word, PowerPoint and Latex. I use the tidymodels framework for machine learning in R.
- **Languages:** I am a native English speaker. I have taken two Swedish courses at Lund University and my Swedish improves every day. Learning French and German on Duolingo.

Interests and extra-curricular activity

- I am a keen home brewer of tasty pale ales, and have experimented with many of the South African hop varieties. I am an avid runner, and have completed five half marathons as well as two full marathons.