

# Jan Hendrik Pretorius

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[GitHub Profile](#)

[LinkedIn Profile](#)

## BIOGRAPHY

I am an innovation economist and data scientist. My strength is building large research datasets from historical and administrative records, including record linkage and data pipelines, and analysing them with applied econometrics, causal inference and predictive modelling.

My PhD at Stellenbosch University studies the direction of innovation in South Africa using patent, inventor and firm data. I bring the same skills to public finance as an economist at Codera Analytics, to clinical research as a consulting biostatistician, and to the classroom as a lecturer in microeconomics, macroeconomics and econometrics.

## EDUCATION

- Stellenbosch University** 01/2025–  
*Ph.D Economics (In progress)*
- Stellenbosch University** 01/2023–12/2024  
*Master of Commerce in Economics*
- Stellenbosch University** 01/2022–12/2022  
*Bachelor of Commerce Honours in Economics*
- Stellenbosch University** 01/2019–12/2021  
*Bachelor of Arts in Economics, Politics and Philosophy*

## EXPERIENCE

- Stellenbosch University** 01/2024–Present  
*Lecturer*  
Stellenbosch
  - Responsible for teaching undergraduate economics students.
  - Modules taught: Microeconomics; Macroeconomics; Econometrics
- Laboratory for the Economics of Africa's Past** 01/2022–Present  
*Researcher*  
Stellenbosch
- Codera Analytics** 01/2022–Present  
*Economist & Data Scientist*  
Remote/South Africa
  - Creation of data sets, mostly related to the South African economy.
  - Maintenance of databases and structuring data for automated analysis.

## RESEARCH

- Understanding fiscal slippage and fiscal forecast errors in South Africa** 2026  
*Working paper: SA-TIED, UNU-WIDER*
- Selective sanitation and racial health inequality** 2026  
*Working paper: Stellenbosch Working Paper Series No. WP01/2026*
- Persistent hypercoagulability and further characterization of microclot complexes in long COVID** 2026  
*Preprint: medRxiv*
- A novel metacyte metafer classifier for platelet morphology using long COVID as a model** 2026  
*Journal article: Journal of Thrombosis and Thrombolysis*
- Gaps in the South African inflation targeting debate** 2025  
*Working paper: Codera Policy Paper No. 1, Munich Personal RePEc Archive*
- Amyloid presence in acute ischemic stroke thrombi: Observational evidence for fibrinolytic resistance** 2025  
*Journal article: Stroke*

- **Exercise-induced changes in microclotting and cytokine levels point to vascular injury and inflammation in people with long COVID**2025  
*Preprint: Research Square*
- **What the Stellenbosch-Drakenstein tax censuses reveal**2025  
*Journal article: South African Historical Journal*
- **The long-run persistence of family wealth and inequality**2025  
*Master's thesis: Stellenbosch University*
- **The clots removed from ischaemic stroke patients by mechanical thrombectomy are amyloid in nature**2024  
*Preprint: medRxiv*
- **Flow clotometry: Measuring amyloid microclots in ME/CFS, long COVID, and healthy samples with imaging flow cytometry**2024  
*Preprint: Research Square*
- **Treatment of long COVID symptoms with triple anticoagulant therapy**2023  
*Preprint: Research Square*

TECHNICAL SKILLS AND INTERESTS

**Technical Skills:** Historical analyses; advanced econometrics (cross-section & time-series); data engineering; statistical programming; writing.

**Soft Skills:** Presentation; communication; teaching; transcription of historical documents.

**Field of Interest:** Economic history; wealth transmission; historical data science

**Hobbies:** Music & choral singing; reading; gaming; golf

POSITIONS HELD

|                                                           |                 |
|-----------------------------------------------------------|-----------------|
| • <b>Chairperson</b> , Stellenbosch University Choir      | 08/2025–08/2026 |
| • <b>Fellow</b> , International Youth Think Tank          | 08/2024–Present |
| • <b>Editor</b> , <i>Die Matie</i> Student Newspaper      | 08/2021–08/2022 |
| • <b>Committee Member</b> , Stellenbosch University Choir | 08/2021–08/2022 |
| • <b>Vice-Head Student</b> , Helshoogte Residence         | 08/2020–08/2021 |

ACHIEVEMENTS

|                                                                                                       |      |
|-------------------------------------------------------------------------------------------------------|------|
| • <b>Merit Award</b> Top 5% academic performer in faculty.                                            | 2021 |
| • <b>Media24 National Debating Competition</b> Runner up in national university debating competition. | 2019 |