RUAIRIDH SOUTH

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EDUCATION

PhD Economics (ongoing)   Sep 2019 - May 2025 (expected)
Princeton University.
- Area of focus: Quantitative Macroeconomics

Master's Degree in Economics and Finance   2017 - 2019
Einaudi Institute for Economics and Finance and LUISS Guido Carli. 110/110 cum laude.
- Ranked overall best student in cohort.

BA Philosophy, Politics and Economics   2014 - 2017
Hertford College, University of Oxford. First Class Honours.

WORKING PAPERS

Aggregate Consumption and Housing Transaction Taxes
- Predicted house purchase probabilities using a 20 million row transactions dataset, then used the results in an event-study model to study the impact of tax policy.
- Developed specialized numeric code to solve the partial differential equation system generated by a housing purchase decision model with transaction costs.

The Network Origins of Firm Dynamics (with J. Boehm, E. Oberfield and M. Waseem)
- Developed an algorithm to efficiently model the dynamic buyer-supplier relationships between up to 2.5 million firms and calibrated the model to the Indian manufacturing sector.
- Built a pipeline to efficiently analyze and visualize the large-scale data generated by the simulation, allowing us to rapidly iterate on model features.

Rising House Prices and Falling MPCs
- Analyzed employment and spending time series data using the generalized method of moments to estimate local average marginal propensities to consume.
- Used these empirical results to discipline a quantitative model examining the relationship between housing costs and macroeconomic volatility.

PROFESSIONAL EXPERIENCE

Bank of England, Postgraduate Intern   Summer 2018
- Developed an R package to streamline data visualization for banking supervisors.

UK Foreign and Commonwealth Office, Economics Intern   Summer 2016
- Completed a research project on business environment reforms that was incorporated into the business case for a £30m overseas development program.

TEACHING ASSISTANTSHIPS

Introduction to Macroeconomics	Fall 2021, Fall 2022, Fall 2023, Fall 2024
Microeconomic Theory: A Mathematical Approach	Fall 2022

FURTHER INFORMATION

Languages	English (native)
Software	Python (Pandas, JAX, NumPy), Julia, R
Citizenship	British