

RUI SOUSA

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CURRENT POSITION

Northwestern University, Evanston, IL

2021-2027 (Exp.)

PhD Student

- Master of Arts, 2022

PAST EMPLOYMENT

London School of Economics, London, United Kingdom

Sep 2020 - Sep 2021

Research Assistant - Centre For Macroeconomics

- Advisors: Profs. Benjamin Moll & Ricardo Reis

European Central Bank, Frankfurt Am Main, Germany

Jun 2018 - Sep 2021

Analyst, Jun 2019 - Sep 2020

- Crisis Management - Quantitative Cluster

Trainee, Jun 2018 - Jun 2019

- Stress Test Modelling

Banco BPI, Lisbon, Portugal

Jun 2017 - Aug 2017

Intern, Private Banking

SELECTED WORK IN PROGRESS

The Aggregate Green Elasticity of Substitution (Draft Upon Request)

Abstract: We develop a methodology to estimate the aggregate elasticity of substitution between pollutant and non-pollutant energy. Leveraging variation in US states' energy mixes, we estimate an elasticity of 0.6 - statistically much closer to unity than prior studies - implying subsidies alone are insufficient for a long-run energy transition. A model linking aggregate and sectoral elasticities yields an average end-user elasticity of 0.72. We show that increasing the clean energy share without raising micro-elasticities reduces aggregate elasticity. Finally, the transportation sector significantly constrains overall substitutability in the US.

EDUCATION

Nova School of Business and Economics, Lisbon, Portugal

2016-2019

- GPA 19/20 (A - top 0.01%)
- Exchange Program at Copenhagen University

University of Porto, Porto, Portugal

2013-2016

- GPA 18/20 (A)

TEACHING

Northwestern University, Evanston, IL

2022-2024

Teaching Assistant

- Intermediate Macroeconomics, Prof. Robert Gordon
- International Finance, Prof. Richard Walker
- American Economic History since 1865, Prof. Benjamin Chabot
- American Economic History before 1865, Prof. Benjamin Chabot

Nova School of Business and Economics, Lisbon, Portugal

2018

Teaching Assistant

- Intermediate Macroeconomics, Profs. João Duarte & Pedro Brinca

SCHOLARSHIPS & AWARDS

- PhD Scholarship, Fundação para a Ciência e Tecnologia, 2025-2026
- Nova SBE Novo Banco Master's Scholarship (#1), 2016-2019
- FEP Belgium Trip Award (top 3 cohort students), 2015

SKILLS

Programming Languages: R, Python, Matlab, SQL

Other: \LaTeX , Git, VBA

Languages: English, Portuguese (Fluent); French, Spanish (Conversational)