João António Mendes da Cruz

Email: j.mendesdacruz@surrey.ac.uk Phone Number: +351 919897069 Nationality: Portuguese Date of Birth: 15/09/1994



Education

OCTOBER 2019-JUNE 2024 (PROSPECTIVE):

MRes+PhD in Economics at the University of Surrey, MRes concluded with Distinction

MRes dissertation supervised by Prof. João Santos Silva and Prof. Jo Blanden: "Intergenerational Income Mobility in the US: A Study using Mixtures"

PhD dissertation supervised by Dr. Federico Martellosio and Prof. João Santos Silva: "Efficient Estimation and Inference with Binary Response Dyadic Regression" and "Penalized Quantile Regression Based on Moments"

SEPTEMBER 2015-DECEMBER 2017:

Master's Degree in Applied Econometrics and Forecasting at ISEG, Universidade de Lisboa (GPA: 18 out of 20)
Dissertation supervised by Prof. João Nicolau: "Structural Changes in Duration of Bull and Bear Markets and their Connection with Business Cycles" (score: 19 out of 20)

SEPTEMBER 2012- JULY 2015:

• Undergraduate Degree in Mathematics Applied to Economics & Management at ISEG, Universidade de Lisboa (GPA: 15 out of 20)

SCHOLARSHIPS:

- · Bolsa de Estudo Fundação Económicas Prémio Excelência
- · FASS Postgraduate Research Scholarship at the University of Surrey

Work Experience

SEPTEMBER 2017- AUGUST 2019:

· Assistant Professor at ISEG, Universidade de Lisboa – Mathematics Department

OCTOBER 2017- MARCH 2018:

· Internship at the Bank of Portugal – Financial Stability Department

FEBRUARY 2017- AUGUST 2017:

· Internship at the Portuguese National Communication Authority (ANACOM) – Research Area

SEPTEMBER 2015- JUNE 2016:

· Tutor of Econometrics, Statistics and Accounting at Centro de Explicações AEISEG

Modules Taught

AT THE UNIVERSITY OF SURREY

Econometrics II, International Trade, Mathematics for Economics, Principles of Microeconomics, and Quantitative Methods

AT ISEG, UNIVERSIDADE DE LISBOA

Data Analysis in Finance, Descriptive Statistics, Econometrics, Econometrics II, Statistics I, and Statistics II

Research Fields

Econometrics, Statistics, Machine Learning, Trade, Market Cycles, Wages, Gender Pay Gap

Works in Progress

- · Efficient Estimation and Inference with Binary Response Dyadic Regression
- · Penalized Quantile Regression Based on Moments

Working Papers

• Cruz, J., Bastos, A., Casaca, S. F., & Proença, I. The Gender Pay Gap in STEM – An Empirical Analysis for Portugal (at a submission process to the International Labour Review)

Publications

- Amaro, F., Bastos, A., Cruz, J., & Proença, I. (2023). Mind the Gap: The Effects of Eliminating the Gender Pay Gap on Income and Poverty. *Journal of Poverty*, 1-19.
- Cruz, J., Nicolau, J., & Rodrigues, P. M. (2021). Structural Changes in the Duration of Bull Markets and Business Cycle Dynamics. *Asia-Pacific Financial Markets*, 28(3), 333-352.

Book Chapters

 Casaca, S. F., Amaro, M. F., Bastos, A., Cruz, J., Perista, H., & Proença, I., (2022). Desigualdades entre mulheres e homens no mercado de trabalho. In N. Simões & N. Crespo (Eds.), *Mercado de Trabalho em Portugal – do Salário Mínimo ao Teletrabalho*. Almedina.

Other Projects and Research

- Participation in a study on the social and economic benefits of equal pay between women and men. Project website at https://genderpaygap-elimination.pt/en/
- Participation in a study on the gender pay gap in Portugal for the International Labour Organization. Available at https://www.ilo.org/wcmsp5/groups/public/---europe/---ro-geneva/---ilo-lisbon/documents/genericdocument/wcms_836145.pdf
- Data analysis for several company gender audits under coordination of SOCIUS Centro de Investigação em Sociologia Económica e das Organizações and CESIS Centro de Estudos para a Intervenção Social

Skills

SOFTWARE:

- · Advanced knowledge in R, Stata, SPSS, TSP, LaTeX & Office
- · Maintainer of 'penppml', an R-package for penalized Poisson Pseudo-Maximum Likelihood estimation

LANGUAGES:

- · Portuguese (native)
- English (fluent)

Volunteering

APRIL 2018-JULY 2018

 Tutor of Mathematics to 7^o, 8^o and 9^o grade children at Centro Cultural e Recreativo das Crianças do Cruzeiro e Rio-Seco

AUGUST 2016-APRIL 2017

· Volunteer at Refood Portugal