Pedro Miguel Teles da Fonseca

Curriculum Vitæ

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FORMAL EDUCATION

2017 –

PhD in Applied Mathematics for Economics and Management
ISEG Lisbon School of Economics and Management
Research center: CEMAPRE - Center for Applied Mathematics and Economics
Research field: Bayesian hypothesis testing
Extra curricular course: Big Data

2016 – 2018

Postgraduate degree in Statistical Systems
NOVA Information Management School
Specialization: Central Banks' Statistics
Program fully taught in English

2014 – 2016

Master's degree in Applied Econometrics and Forecasting
ISEG Lisbon School of Economics and Management
Thesis: Digit Analysis Using Benford's Law, a Bayesian Approach
Extra curricular course: Computation
One course taught in English

2010 – 2014

Bachelor's degree in Economics
ISEG Lisbon School of Economics and Management
Five courses taught in English

PROFESSIONAL EXPERIENCE

2016 – 2017

Bank of Portugal
Trainee, Department of Statistics
Compilation of official statistics from the securitization corporations operating in Portugal and from the national financial accounts, for dissemination and reporting purposes. Automation of processes regarding the generation and update of the lists of entities belonging to the Portuguese non-monetary financial sector to be considered in the production of official statistics using VBA, SQL and SAS programming.

2015

BANIF - Banco Internacional do Funchal
Intern, Department of Transformation and Systems
Modelling and extraction of information from BANIF's Data Wharehouse, using SAS Enterprise Guide and SQL programming, and integration with information from other internal sources. Data analysis and data quality management. Exploratory analysis of data from BANIF's help desk. Participation in the AnaCredit project, which consists in the implementation of a detailed database of individual bank loans in the euro area, harmonized across all member states.

TEACHING

2020

Introduction to R programming
12 hours of online workshops. Organization: YES - Young Economics Society

2020

Intermediate R programming
4 hours of online workshops. Organization: YES - Young Economics Society

Publications

Articles	Carneiro, Inês, Rita Ramos, Pedro Fonseca, Teresa Martins, Filomena Pereira and Manuela Braga (2019). Time to diagnosis of pediatric oncologic disease: ten-year experience from level II hospital. *Nascer e Crescer - Birth and Growth Medical Journal* **28**(4), 179–184.
	Carneiro, Inês, Pedro Fonseca and Rosário Ferreira, (2019). Children's Sleep Habits Questionnaire in Two Subpopulations from Cape Verde and Mozambique: Exploratory and Regression Analysis. *Acta Médica Portuguesa* **32**(10), 628–634.
Conference Abstracts	Carneiro, Inês, Pedro Fonseca, and Rosário Ferreira (2017). Sleep habits and sleep disturbances in a pediatric population of Cabo Verde. *Sleep Medicine* **40**(Supplement 1), e210, e211.

Poster Presentations

2019	**Bayesian digit analysis** O'Bayes 2019 – Objective Bayes Methodology Conference University of Warwick, UK
2019	**Asthma, allergic rhinitis and sleep quality in a pediatric population from Mozambique** XXV Jornadas de Pediatria Santa Maria Hospital, Lisbon, Portugal
2017	**Sleep habits and sleep disturbances in a pediatric population of Cape Verde** World Sleep Congress 2017 Prague, Czech Republic

Funding and Scholarships

2019	**O'Bayes 2019 travel grant** Funding institution: University of Warwick. Travel grant to present a poster on Bayesian digit analysis and attend the O'Bayes 2019 conference (Objective Bayes methodology conference).
2019	**O'Bayes 2019 funding** Funding institution: CEMAPRE - Center for Applied Mathematics and Economics. Financial support to present a poster on Bayesian digit analysis and attend the O'Bayes 2019 conference (Objective Bayes methodology conference).
2017	**PhD Scholarship** Funding institution: Foundation for Science and Technology. Full tuition funding + monthly stipend and supplementary support. Duration: Up to 4 years.
2016	**Funding for postgraduate degree in Statistical Systems.** Funding institution: Bank of Portugal. Full tuition.
2012	**Research Fellowship** UTL/Santander Totta Scientific Awards. Scientific field: Game Theory. Topic: Two-sided matching markets in Portugal. Monthly stipend. Duration: Six months.

Awards and Distinctions

2016	**Best master's degree final project** Highest grade in a final project in the Master's in Applied Econometrics and Forecasting since 2013.
2014	**Best student in the statistics II course** Highest grade among 155 undergraduate students.

Summer School

2018	**Laboratory of Experimental Economics** ISEG Lisbon School of Economics and Management
2017	**Introduction to Python with applications to Artificial Intelligence** NOVA Information Management School
2016	**Computational Bayesian Statistics** Faculty of Sciences - University of Lisbon
2014	**MATLAB** ISEG Lisbon School of Economics and Management
2013	**Banking & the Financial Crisis** Nyenrode Business University

Online courses

2018	**Intro to SQL for Data Science**, Datacamp
2018	**Introduction to Shell for Data Science**, Datacamp
2017	**Querying with Transact-SQL**, Microsoft course, edX
2017	**Introduction to Python for Data Science**, Microsoft course, edX
2017	**Programming with R for Data Science**, Microsoft course, edX
2017	**Introduction to R for Data Science**, edX
2013	**Markets with Frictions**, University of Wisconsin-Madison Online, Coursera
2013	**Introduction to Mathematical Thinking**, Stanford University Online, Coursera
2013	**Game Theory**, Stanford University Online, Coursera

Other Certifications

2018	**Tidyverse & Shiny: From data manipulation to the interactive presentation of results in interactive apps** Alambra Consulting
2005	**First Certificate in English** British Council

Computer Skills

Programming	R, SQL, Bash, SAS, VBA, Wolfram, Python, Git and GitHub
Markup	Markdown, R Markdown, LaTeX, Beamer, HTML and CSS
Software	R Studio, Excel, Word, Power Point, Math Type, Solver, Eviews, Stata, MATLAB, Base SAS, SAS Enterprise Guide, SAS Enterprise Miner, SAS Studio, SQL Server, Wolfram Mathematica, VirtualBox, Visual Studio Code, JAGS, Stan.