Pedro Miguel Teles da Fonseca

Curriculum Vitæ

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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

2016 – 2018 | **Postgraduate degree in Statistical Systems**
Specialization: Central Banks´ Statistics
NOVA Information Management School
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
One course taught in English

2010 – 2014 | **Bachelor's degree in Economics**
ISEG Lisbon School of Economics and Management
Five courses taught in English

EXPERIENCE

2017 – | **FCT - Foundation for Science and Technology**
Research Fellow
Conducting research in order to obtain a PhD. Research field: Bayesian model selection, hypothesis testing and multiplicity adjustment. Working on applications than include fraud detection and bibliometrics.

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 list of entities belonging 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, 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.

2013 | **UECE - Research Unit on Complexity and Economics**
Research Fellow
Project motivated by the 2012 Nobel prize in economics awarded to Alvin Roth and Lloyd Shapley for their theory of stable allocation in two sided matching markets, also known as the stable marriage problem. I integrated a team that investigated the adequacy of matching algorithms used in some Portuguese two sided matching markets, including the assignment of students to public schools.

Publications

Articles

2019 | 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.

2019 | 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 Proceedings

2017 | Carneiro, Inês, Pedro Fonseca, and Rosário Ferreira (2017). Sleep habits and sleep disturbances in a pediatric population of Cabo Verde. *Sleep Medicine* **40**(Suppl 1), e210, e211.

Communications

Workshops Lectured

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

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 attend and present a poster in the O'Bayes 2019 conference (Objective Bayes methodology conference, Warwick - UK).

2019 | **O'Bayes 2019 funding**
Funding institution: CEMAPRE - Center for Applied Mathematics and Economics.
Financial support to attend and present a poster in the O'Bayes 2019 conference (Objective Bayes methodology conference, Warwick - UK).

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.

Complementary Education

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, attended through edX
2017	**Introduction to Python for Data Science**
	Microsoft course, attended through edX
2017	**Programming with R for Data Science**
	Microsoft course, attended through edX
2017	**Introduction to R for Data Science**
	Microsoft course, attended through edX
2013	**Markets with Frictions**
	University of Wisconsin-Madison Online, attended through Coursera
2013	**Introduction to Mathematical Thinking**
	Stanford University Online, attended through Coursera
2013	**Game Theory**
	Stanford University Online, attended through Coursera

Extracurricular Course Units

2018	**Big Data**
	Course from the MSc in Applied Econometrics and Forecasting.
	ISEG Lisbon School of Economics and Management
2016	**Computation**
	Course from the MSc in Quantitative Methods for Decision-making.
	ISEG Lisbon School of Economics and Management

Language Courses

2005	**First Certificate in English**
	British Council

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.