



# Pedro Miguel Teles da Fonseca

## *Curriculum Vitae*

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## EDUCATION

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| 2017 –      | <b>PhD in Applied Mathematics for Economics and Management</b><br>ISEG Lisbon School of Economics and Management<br>Research center: CEMAPRE - Center for Applied Mathematics and Economics<br>Research field: Bayesian hypothesis testing |
| 2016 – 2018 | <b>Postgraduate degree in Statistical Systems</b><br>Specialization: Central Banks' Statistics<br>NOVA Information Management School<br>Program fully taught in English  |
| 2014 – 2016 | <b>Master's degree in Applied Econometrics and Forecasting</b><br>ISEG Lisbon School of Economics and Management<br>Thesis: Digit Analysis Using Benford's Law, a Bayesian Approach<br>One course taught in English                        |
| 2010 – 2014 | <b>Bachelor's degree in Economics</b><br>ISEG Lisbon School of Economics and Management<br>Five courses taught in English  |

## WORK EXPERIENCE

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| 2017 –      | <b>FCT - Foundation for Science and Technology</b><br><b>Research fellow</b><br>Conducting research in order to obtain a PhD. Research field: Bayesian model selection, hypothesis testing and multiplicity adjustment. Working on applications that include fraud detection and bibliometrics.  |
| 2016 – 2017 | <b>Bank of Portugal</b><br><b>6 months traineeship, Department of Statistics</b><br>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        | <b>BANIF - Banco Internacional do Funchal</b><br><b>6 months internship, Department of Transformation and Systems</b><br>Modelling and extraction of information from BANIF's Data Warehouse 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        | <b>UECE - Research Unit on Complexity and Economics</b><br><b>Research fellow</b><br>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

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### 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

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### 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

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- 2019 | **O'Bayes 2019 travel grant**  
Funding institution: University of Warwick  
Travel grant to attend and present a poster in the O'Bayes 2019 - 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 - 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

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

## COMPLEMENTARY EDUCATION

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### Summer School

2018	<b>Laboratory of Experimental Economics</b> ISEG Lisbon School of Economics and Management
2017	<b>Introduction to Python with applications to Artificial Intelligence</b> NOVA Information Management School
2016	<b>Computational Bayesian Statistics</b> Faculty of Sciences of the University of Lisbon
2014	<b>MATLAB</b> ISEG Lisbon School of Economics and Management
2013	<b>Banking &amp; the Financial Crisis</b> Nyenrode Business University, Breukelen - Netherlands

### Extracurricular Course Units

2018	<b>Big Data</b> Course from the MSc in Applied Econometrics and Forecasting ISEG Lisbon School of Economics and Management
2016	<b>Computation</b> Course from the MSc in Quantitative Methods for Decision-making in Economics and Business ISEG Lisbon School of Economics and Management

### Online Courses

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

### Language Courses

2005	<b>First Certificate in English</b> British Council
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## COMMUNITY INVOLVEMENT

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### Peer-Reviewer

Since 2019 | **Acta Médica Portuguesa**, the scientific journal of the Portuguese Medical Association (*Ordem dos Médicos*)

### Non-Profit Associations

Since 2018 | **Data-Hub**  
Co-Founder and Instructor  
Data Hub is a Data Science club founded by PhD and MSc students with the mission of raising awareness to the importance of Data Science amongst economics and business students and promoting knowledge and expertise sharing through meetings and workshops in order to provide students with the tools they need to turn data into knowledge and succeed in analytics-oriented tasks.

2010 – 2011 | **AEISEG - ISEG Student's Union**  
Department of Marketing

## WORKSHOPS

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### Organized

2018 | **LaTeX Typesetting Language, an Introductory Tutorial**, ISEG Lisbon School of Economics and Management

2018 | **MATLAB, an Introductory Tutorial**, ISEG Lisbon School of Economics and Management

### Attended

2018 | **Tidyverse & Shiny: From data manipulation to the interactive presentation of results in interactive apps**, 10 hours of workshop, Alambra Consulting

## CONFERENCES ATTENDED

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2019 | **O'Bayes 2019 - Objective Bayes Methodology Conference**, University of Warwick, UK

2018 | **Data Science for Hospitality and Tourism**, Rectorate of the Nova University of Lisbon

2018 | **Insights 2018 - Data Science and Artificial Intelligence Conference**, Rectorate of the Nova University of Lisbon

## SEMINARS ATTENDED

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2018 | **Writing for Publication in Top Journals: Tips and Insights**, NOVA Information Management School

2018 | **Road to Success: a guide for doctoral students and junior faculty members in the behavioral and social sciences**, NOVA Information Management School

2016 | **The Future of Official Statistics: Potentials and Challenges**, Rectorate of the Nova University of Lisbon

## COMPUTER SKILLS

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**Programming** | R, SQL, Bash, SAS, VBA, Wolfram, JAGS, Stan, Python, Git and GitHub

**Markup** | Markdown, R Markdown, LaTeX, Beamer, HTML and CSS

**Software** | R Studio, Excel, Word, Power Point, Teams, Zoom, Math Type, Solver, Eviews, Stata, MATLAB, Base SAS, SAS Enterprise Guide, SAS Enterprise Miner, SAS Studio, SQL Server, Wolfram Mathematica, VirtualBox and Visual Studio Code

**Operating Systems** | MacOS, Ubuntu and Windows