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## Patrícia A. Filipe

### Professora Associada

BRU-Iscte - Business Research Unit

Department of Quantitative Methods (IBS)



### Contacts

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### Curriculum

Patrícia A. Filipe is an Associate Professor at ISCTE-Instituto Universitário de Lisboa, where she teaches courses in the area of Probability and Statistics. Her main research area is statistical modeling, in particular, it focuses on the study of dynamic models of individual growth, statistical models applied to health data and, more recently, analytical methods in Big Data. She has participated in research projects, and in the dissemination of the work developed in national and international scientific meetings, with the publication of several scientific papers.

### Academic Qualifications

University/Institution	Type	Degree	Period
Universidade de Évora	PhD	Matemática	2011
Faculdade de Ciências da Universidade de Lisboa	M.Sc.	Probabilidades e Estatística	2003
Universidade de Évora	Licenciante	Matemática Aplicada	1999

## Teaching Activities

Teaching Year	Sem.	Course Name	Degree(s)	Coord
2025/2026	2º	Big Data Analytics	Master Degree in Business Analytics;	Yes
2025/2026	2º	Probabilities and Sampling	Bachelor Degree in Data Science;	No
2025/2026	1º	Statistics	Bachelor Degree in Economics;	Yes
2024/2025	2º	Big Data Analytics	Master Degree in Business Analytics;	Yes
2024/2025	2º	Statistics II		No
2024/2025	1º	Statistics	Bachelor Degree in Economics;	Yes
2023/2024	2º	Applied Final Project in Data Science	Bachelor Degree in Data Science;	No
2023/2024	2º	Big Data Analytics	Master Degree in Business Analytics;	Yes
2023/2024	2º	Statistics II		No
2023/2024	1º	Statistics	Bachelor Degree in Economics;	Yes
2022/2023	2º	Big Data Analytics	Master Degree in Business Analytics;	Yes
2022/2023	2º	Statistics II		No
2022/2023	1º	Business Analytics Fundamentals	Post Graduation Program in Data Science;	Yes
2022/2023	1º	Statistics	Bachelor Degree in Economics;	Yes
2021/2022	2º	Big Data Analytics	Master Degree in Business Analytics;	Yes
2021/2022	2º	Statistics II		No
2021/2022	1º	Statistics I	Bachelor Degree in Finance and Accounting;	No
2020/2021	2º	Big Data Analytics	Master Degree in Business Analytics;	Yes
2020/2021	2º	Statistics II		No
2020/2021	2º	Modeling in Marketing Research	Institutional Degree in ISCTE Business School;	Yes
2020/2021	1º	Statistics I		No

## Supervisions

## • Ph.D. Thesis

### - Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Jaime Agostinho Jerónimo	Survival Analysis for women diagnosed with breast cancer in Angola from 2013 to 2017	Portuguese	Developing	Universidade de Évora Instituto de Investigação e Formação Avançada
2	Manuel Ana Mário Alberto	Road accidents in Angola: A Time Series Analysis	Portuguese	Developing	Universidade de Évora Instituto de Investigação e Formação Avançada

### - Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Nelson Tchingui Jamba	Mixed models for individual growth in random environment	English	Universidade de Évora Instituto de Investigação e Formação Avançada	--

## • M.Sc. Dissertations

### - Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Inês Colaço Fortes Alves	Assessment and Improvement of the Quality of Customer Databases in Community Pharmacies: An Exploratory Study to Support Decision-Making	--	Developing	Iscte
2	Marcelle Queiroz	Detecção de Fraudes em Ambientes Corporativos com Machine Learning: Lidando com Desequilíbrio de Classes e Padrões Mutáveis	--	Developing	Iscte
3	Diogo Pinto Santos	Predictive Modeling of Ocean Transit Time: Analysis of Delays	--	Developing	Iscte
4	João Maria Bastos Pacheco Mateus Garcia	Cryptocurrency Price Forecasting Based on News Sentiment Analysis	--	Developing	Iscte
5	Diogo Bandeira Carrilho	Forecasting Hotel Occupancy and Revenue using Data Analytics	--	Developing	Iscte
6	Joana Oliveira Duarte	Caracterização da mobilidade na cidade de Lisboa, com base em dados de comunicações móveis	--	Developing	Iscte

**- Concluded**

	<b>Student Name</b>	<b>Title/Topic</b>	<b>Language</b>	<b>Institution</b>	<b>Concluding Year</b>
1	Jinglu Wang	An Empirical Comparative Study of AI and Human Decision-Making in Candidate Selection	English	Iscte	2025
2	Tiago João do Carmo Vila Nova	Analysis of the type of overnight stays of a hotel chain	Portuguese	Iscte	2025
3	Mariana Marques Carapinha	Customer Segmentation of Community Pharmacies with Application in KNIME Analytics Platform	Portuguese	Iscte	2024
4	Ana Catarina Guerreiro Parrinha	Customer segmentation: a case study in community pharmacy	Portuguese	Iscte	2024
5	João Miguel Grácio Alves	Big Data Analytics in Water Supply Network Management	Portuguese	Iscte	2022
6	Miguel Costa Lima Lobo	Deep Learning algorithms application: Image recognition model and analysis of consumer behaviour in autonomous checkout stores	Portuguese	Iscte	2022
7	Ana Paula Ferrari Januário	Análise estatística da produção de vitelão Mertolengo	Portuguese	Uniyersidade de Évora Escola de Ciências e Tecnologia	2021
8	Marília Bettencourt Silva	Time between the appearance of the first symptoms of tuberculosis and the diagnosis of disease - Survival analysis	Portuguese	Universidade Nova de Lisboa Escola Nacional de Saúde Pública	2012

**• M.Sc. Final Projects**

**- Concluded**

	<b>Student Name</b>	<b>Title/Topic</b>	<b>Language</b>	<b>Institution</b>	<b>Concluding Year</b>
1	Lara Sofia Nunes Rocha	Demand Pattern Analysis for Picking Kit Production	Portuguese	Iscte	2025
2	Ricardo Manuel Sampaio Jorge Rolim	Sales forecast for pharmacy management support	Portuguese	Iscte	2023

**Total Citations**

**Web of Science®**

71

## Publications

### • Scientific Journals

#### - Scientific journal paper

1	Jamba, N.T., Filipe, P. A., Jacinto, G. & Braumann, C. A. (2024). Stochastic differential equations mixed model for individual growth with the inclusion of genetic characteristics. <i>Statistics, Optimization and Information Computing</i> . 12 (2), 298-309
2	Jamba, N. T., Jacinto, G., Filipe, P. A. & Braumann, C. A. (2024). Estimation for stochastic differential equation mixed models using approximation methods. <i>AIMS Mathematics</i> . 9 (4), 7866-7894 - Times Cited Web of Science®: 2 - Times Cited Scopus: 2
3	Jacinto, G., Filipe, P.A. & Braumann, C. A. (2022). Profit optimization of cattle growth with variable prices. <i>Methodology and Computing in Applied Probability</i> . 24 (3), 1917-1952 - Times Cited Web of Science®: 5 - Times Cited Scopus: 4 - Times Cited Google Scholar: 12
4	Jacinto, G., Filipe, P. A. & Braumann, C. A. (2022). Weighted maximum likelihood estimation for individual growth models. <i>Optimization</i> . 71 (11), 3295-3311 - Times Cited Web of Science®: 4 - Times Cited Scopus: 3 - Times Cited Google Scholar: 13
5	Chakma, B., Gomes, D., Filipe, P. A., Soares, P., Sousa, B. De & Nunes, C. (2022). A temporal analysis on patient and health service delays in pulmonary tuberculosis in Portugal: Inter and intraregional differences and in(equalities) between gender and age. <i>BMC Public Health</i> . 22 (1) - Times Cited Web of Science®: 7 - Times Cited Scopus: 6 - Times Cited Google Scholar: 8
6	Jamba, N.T., Jacinto, G., Filipe, P. A. & Braumann, C. A. (2022). Likelihood function through the delta approximation in mixed SDE models. <i>Mathematics</i> . 10 (3) - Times Cited Web of Science®: 2 - Times Cited Scopus: 3 - Times Cited Google Scholar: 7
7	Filipe, P.A., Braumann, C.A. & Carlos, C. (2015). Profit optimization for cattle growing in a randomly fluctuating environment. <i>Optimization</i> . 64 (6), 1393-1407 - Times Cited Web of Science®: 4 - Times Cited Google Scholar: 19
8	Bras AL, Gomes D, Filipe, P.A., de Sousa B & Nunes C (2014). Trends, seasonality and forecasts of pulmonary tuberculosis in Portugal. <i>International Journal of Tuberculosis and Lung Disease</i> . 18 (10), 1202-1210 - Times Cited Web of Science®: 30 - Times Cited Scopus: 26 - Times Cited Google Scholar: 50

9	Filipe, P.A., Braumann, C.A. & Roquete, C.J. (2012). Multiphasic Individual Growth Models in Random Environments. <i>Methodology and Computing in Applied Probability</i> . 14 (1), 49-46 - Times Cited Web of Science®: 7 - Times Cited Scopus: 11 - Times Cited Google Scholar: 26
10	Filipe, P.A., Braumann, C.A., Brites, N.M. & Roquete, C.J. (2010). Modelling animal growth in random environments: An application using nonparametric estimation. <i>Biometrical Journal</i> . 52 (5), 653-666 - Times Cited Web of Science®: 10 - Times Cited Scopus: 12 - Times Cited Google Scholar: 27

## • Books and Book Chapters

### - Book editor

1	Alpizar-Jara, R., Gomes, D., Henriques-Rodrigues, L. & Filipe, P.A. (2021). Book of Abstracts of SPE 2021. Sociedade Portuguesa de Estatística.
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### - Book chapter

1	Sousa, B., Gomes, D., Filipe, P.A., Areias, C., Briz, T., Pires, C....Nunes, C. (2016). STAR Modeling of Pulmonary Tuberculosis Delay-Time in Diagnosis. In <i>Topics in Theoretical and Applied Statistics, Studies in Theoretical and Applied Statistics</i> . - Times Cited Scopus: 1 - Times Cited Google Scholar: 2
2	Filipe, P.A., Braumann, C.A., Clara Carlos & Carlos J. Roquete (2014). Individual Growth in a Random Environment: An Optimization Problem. In <i>New Advances in Statistical Modeling and Applications</i> . - Times Cited Google Scholar: 1
3	Clara Carlos, Braumann, C.A. & Filipe, P.A. (2013). Models of Individual Growth in a Random Environment: Study and Application of First Passage Times. In <i>Advances in Regression, Survival Analysis, Extreme Values, Markov Processes and Other Statistical Applications</i> . - Times Cited Scopus: 5 - Times Cited Google Scholar: 15
4	Filipe, P.A., Braumann, C.A., Nuno M. Brites & Carlos J. Roquete (2012). Prediction for Individual Growth in a Random Environment. In <i>Recent Developments in Modeling and Applications in Statistics</i> . - Times Cited Scopus: 7 - Times Cited Google Scholar: 12

## • Conferences/Workshops and Talks

### - Publication in conference proceedings

1	de Sousa, B., Pires, C., Gomes, D., Filipe, P.A., Costa-Veiga, A. & Nunes, C. (2020). Structured additive Regression Modeling of pulmonary tuberculosis infection. In <i>Proceedings of ISI WORLD STATISTICS CONGRESS 2019 (Vol. 3)</i> . (pp. 225-233).
2	Alberto, M., Gomes D & Filipe, P.A. (2019). Time series analysis of Luanda road accidents, deaths and injureds. In <i>Meira-Machado, L. and Soutinho, G. (Ed.), Proceedings of the 34th International Workshop on Statistical Modelling, Volume II</i> . (pp. 401-404). Guimarães

3	Gomes, D., Bras, A., Filipe, P., Sousa, B. & Nunes, C. (2014). Pulmonary tuberculosis diagnosis analysis through dynamic regression models. In Ruiz, G. and Rojas, I. (Ed.), Proceedings ITISE 2014 International work-conference on Time Series. (pp. 1331-1440). Granada
4	Gomes D, Filipe, P.A., Nunes C & Sousa, B. (2013). Penalized spline smoothing for delay in Pulmonary Tuberculosis diagnosis. In Muggeo, V.M.R. and Capursi, V. and Boscaino, G. and Lovison, G. (Ed.), Proceedings of the 28th International Workshop on Statistical Modelling, Volume II. (pp. 621-625). Palermo
5	Filipe, P.A., Gomes D, Nunes C, Bettencourt-Silva, M., Sousa, B. & Briz, T. (2012). Delay in diagnosis of Pulmonary Tuberculosis in Portugal. In Komarek, A. and Nagy, S. (Ed.), Proceedings of the 27th International Workshop on Statistical Modelling, Volume II . (pp. 501-506). Praga - Times Cited Google Scholar: 5
6	Nunes C, Briz, T., Gomes D & Filipe, P.A. (2011). Pulmonary Tuberculosis and HIV/AIDS: joint space-time clustering under an epidemiological perspective. In Cafarelli, B. (Ed.), Proceedings of the Spatial Data Methods for Environmental and Ecological Processes - 2nd Edition. Foggia e Gargano - Times Cited Google Scholar: 6
7	Braumann, C.A., Filipe, P.A., Carlos, C. & Carlos J. Roquete (2011). Stochastic Differential Equations General Models of Individual Growth in Uncertain Environments and Application to Profit Optimization in Livestock Production. In Bulletin of the International Statistical Institute, Proceedings of the 58th World Statistics Congress 2011 . (pp. 4450-4455). Dublin - Times Cited Google Scholar: 1
8	Braumann, C.A., Filipe, P.A., Carlos, C. & Carlos J. Roquete (2009). Growth of individuals in randomly fluctuating environments. In Vigo-Aguiar, J. (Ed.), Proceedings of the 2009 International Conference in Computational and Mathematical Methods in Science and Engineering. (pp. 201-212). Gijón - Times Cited Google Scholar: 17
9	Filipe, P.A., Braumann, C.A. & Carlos J. Roquete (2008). Modelos multifásicos de crescimento de animais em ambiente aleatório . In Oliveira, I. and Correia, E. and Ferreira, F. and Dias, S. and Braumann, C.A. (Ed.), Estatística - Arte de Explicar o Acaso. (pp. 299-306). Vila Real: Edições SPE.
10	Filipe, P.A. & Braumann, C.A. (2007). Crescimento individual em ambiente aleatório: várias trajectórias. In Hill, M.M. and Ferreira, M.A. and Dias, J.G. and Salgueiro, M.F. and Vicente, P. and Braumann, C.A. (Ed.), Estatística - da Teoria à Prática. (pp. 259-268). Lisboa: Edições SPE. - Times Cited Google Scholar: 6
11	Filipe, P.A., Braumann, C.A. & Carlos J. Roquete (2006). Modelos de crescimento de animais em ambiente aleatório. In Ferrão, M.A. and Nunes, C. and Braumann, C.A. (Ed.), Estatística: Ciência Interdisciplinar. (pp. 401-410). Covilhã: Edições SPE. - Times Cited Google Scholar: 24

#### - Talk

1	Filipe, P.A., Jacinto, G. & Braumann, C.A. (2025). A New Approach to the Delta Approximation Method for Mixed Stochastic Differential Equation Models. XXVII Congresso da Sociedade Portuguesa de Estatística.
2	Jacinto, G., Filipe, P.A., Jamba, N.T. & Braumann, C.A. (2025). Exploring variability in individual growth: introducing a hierarchy of stochastic models. 2nd International Workshop on Mathematics and Physical Sciences.

3	Jacinto, G., Filipe, P.A. & Braumann, C.A. (2025). Individual Growth Models With Stochastic Differential Equations. XXVII Congresso da Sociedade Portuguesa de Estatística.
4	Jacinto, G., Filipe, P.A., Jamba, N.T. & Braumann, C.A. (2024). Exploring variability in individual growth: introducing a hierarchy of stochastic models. 2nd International Workshop on Mathematics and Physical Sciences (MatPhys24), Satellite Conference of the 9th European Congress of Mathematics of the European Mathematical Society.
5	Braumann, C.A., Filipe, P.A., Jacinto, G. & Jamba, N.T. (2024). Sources of Variability in Individual Growth: A hierarchical class of stochastic models. Models in Population Dynamics, Ecology, and Evolution (MPDEE'24).
6	Jamba, N.T., Filipe, P.A., Jacinto, G. & Braumann, C.A. (2024). Stochastic differential equations mixed model for individual growth with inclusion of genetic values. IX Workshop on Computational Data Analysis and Numerical Methods - WCDANM   2024.
7	Jamba, N.T., Filipe, P.A., Jacinto, G. & Braumann, C.A. (2024). Stochastic differential equations mixed model with Inclusion of genetic values. 15th International Conference on Dynamical Systems Applied to Biology and Natural Sciences .
8	Gomes, D., Silva, C. J. & Filipe, P.A. (2023). Classic and deep learning techniques for temporal clustering and mathematical modeling. Encontro Anual do CIMA 2023.
9	Filipe, P.A., Jacinto, G., Jamba, N.T. & Braumann, C.A. (2023). Stochastic differential equations mixed models to describe individual growth. Encontro Anual do CIMA 2023.
10	Alves, J. & Filipe, P.A. (2022). Big Data Analytics in Water Consumption. VIII Workshop on Computacional Data Analysis and Numerical Methods.
11	Lobo, M. & Filipe, P.A. (2022). Retail store object detection using Yolo. VIII Workshop on Computacional Data Analysis and Numerical Methods.
12	Jerónimo, J., Filipe, P.A. & Gomes, D. (2022). Survival analysis of women diagnosed with breast cancer in Angola. VIII Workshop on Computacional Data Analysis and Numerical Methods.
13	Jacinto, G., Filipe, P.A. & Braumann, C.A. (2022). Modelos de crescimento dinâmicos para a raça mertolenga e a raça alentejana. Workshop BovMais (Operational Group GOBovMais).
14	Jacinto, G., Filipe, P.A. & Braumann, C.A. (2022). Individual growth models with stochastic differential equations. Encontro Anual do CIMA.
15	Filipe, P.A., Jacinto, G. & Braumann, C.A. (2022). Weighted maximum likelihood estimation method for SDE individual growth models. III Encontro Português de Biomatemática.
16	Braumann,C.A., Jacinto, G. & Filipe, P.A. (2022). Stochastic differential equation models of animal growth and optimization in cattle raising. International Conference on Mathematical Analysis and Applications in Science and Engineering.
17	Braumann,C.A., Jacinto, G. & Filipe, P.A. (2022). General Stochastic Differential Equation Models of Animal Growth with Application to Optimization in Cattle Raising. SIAM Conference on Life Sciences LS22.
18	Jamba, N.T., Jacinto, G., Filipe, P.A. & Braumann, C.A. (2022). Approximation methods for the likelihood function in parameter estimation for SDE mixed models. VIII Workshop on Computational Data Analysis and Numerical Methods.

19	de Sousa, B., Pires, C., Gomes, D., Filipe, P.A., Costa-Veiga, A. & Nunes, C. (2021). STAR Modeling in the battle against Pulmonary Tuberculosis: risk areas and associated risk factors. 14th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2021).
20	Jamba, N.T., Filipe, P.A., Jacinto, G. & Braumann, C.A. (2021). Mixed models for individual growth in random environment through Laplace and delta method approximation methodologies. XXV Congresso da Sociedade Portuguesa de Estatística.
21	Filipe, P.A., Jacinto, G. & Braumann, C.A. (2021). Weighted maximum likelihood estimation for SDE individual growth models. XXV Congresso da Sociedade Portuguesa de Estatística.
22	Jacinto, G., Filipe, P.A. & Braumann, C.A. (2021). Profit optimization with sensitivity analysis for cattle growth using Gompertz and Bertalanffy-Richards SDE models. XXV Congresso da Sociedade Portuguesa de Estatística.
23	Januário, A.P., Filipe, P.A. & Jacinto, G. (2021). A Classification model for Mertolenga cattle breed. XXV Congresso da Sociedade Portuguesa de Estatística.
24	Braumann,C.A., Jacinto, G. & Filipe, P.A. (2021). Profit optimization for SDE cattle growth models using a general profit structure. XXV Congresso da Sociedade Portuguesa de Estatística.
25	Braumann,C.A., Jacinto, G. & Filipe, P.A. (2021). Profit optimization for a stochastic model of cattle growth and variable price categories. 2nd International Workshop on Stochastic Processes and Their Applications (IWSPA 2021).
26	Braumann,C.A., Jacinto, G. & Filipe, P.A. (2021). Profit Optimization of Cattle Growth with Variable Price Categories. 12th Conference on Dynamical Systems Applied to Biology and Natural Sciences. DSABNS2021 Virtual.
27	Jacinto, G., Filipe, P.A. & Braumann, C.A. (2021). Individual growth modelling with stochastic differential equations. International Conference on Dynamic Control and Optimization, International Conference on occasion of 65thbirthday of Andrey V. Sarychev.
28	Jamba, N.T., Filipe, P.A., Jacinto, G. & Braumann, C.A. (2021). Mixed models for individual growth in random environment through Laplace approximation. V Latin American Conference on Statistical Computing (LACSC2021).
29	Jamba, N.J., Filipe, P.A., Jacinto, G. & Braumann, C.A. (2021). Likelihood function approximation through the delta method in mixed SDE models. XXVIII Jornadas de Classificação e Análise de Dados (JOCLAD2021).
30	Jacinto, G., Filipe, P.A. & Braumann, C.A. (2020). Individual Growth Modelling with Stochastic Differential Equations. VII Workshop on Computational Data Analysis and Numerical Methods.
31	Jerónimo, J., Filipe, P.A. & Gomes D (2019). Análise de sobrevivência de mulheres diagnosticadas com cancro de mama em Angola no período 2013 a 2018. XXIV Congresso da Sociedade Portuguesa de Estatística.
32	Alberto, M., Filipe, P.A. & Gomes D (2019). A Time series analysis of road traffic accidents in Luanda. 13th International Conference on Statistics, Mathematics and Computation.
33	Jerónimo, J., Filipe, P.A. & Gomes D (2019). Análise de sobrevivência de mulheres diagnosticadas com cancro de mama em Angola no período 2013 a 2018. XXIV Congresso da Sociedade Portuguesa de Estatística.

34	Alberto, M., Gomes D & Filipe, P.A. (2019). Time series analysis of Luanda road accidents, deaths and injureds. 34th edition of the International Workshop on Statistical Modelling.
35	Filipe, P.A., Braumann, C.A. & Jacinto, G. (2019). Modelos Mistos de Crescimento Individual em Ambiente Aleatório. III Congresso Luso-Extremadurens de Ciência e Tecnologia.
36	Filipe, P.A., Braumann, C.A. & Jacinto, G. (2019). Individual growth modelling with Stochastic differential equations. XXIV Congresso da Sociedade Portuguesa de Estatística.
37	Alberto, M., Gomes D & Filipe, P.A. (2017). Trends and seasonality of the road accidents in Angola from 2002 to 2015. IV Workshop on Computational Data Analysis and Numerical Methods.
38	Alberto, M., Gomes D & Filipe, P.A. (2017). A sinistralidade rodoviária em Angola de 2002 a 2015. XXIII Congresso Anual da Sociedade Portuguesa de Estatística.
39	Filipe, P.A. & Braumann, C.A. (2017). Multiphasic SDE model: an application to cattle growth. DSABNS 2017 - Eight Workshop Dynamical Systems Applied to Biology and Natural Sciences.
40	Gomes D, Bras AL, Filipe, P.A., Sousa, B. & Nunes C (2014). A dynamic regression analysis of pulmonary tuberculosis incidence. ISCB 2014 - 35th Annual Conference of the International Society for Clinical Biostatistics.
41	Gomes D, Filipe, P.A., Nunes C & Sousa, B. (2013). Penalized spline smoothing for delay in Pulmonary Tuberculosis diagnosis. IWSM2013 - 28th International Workshop on Statistical Modelling.
42	Bettencourt-Silva, M., Filipe, P.A., Gomes D, Areias, C. & Nunes C (2013). A tuberculose pulmonar em crianças e adolescentes em Portugal continental. XXI Congresso Anual da Sociedade Portuguesa de Estatística.
43	Filipe, P.A., Gomes D, Nunes C, Bettencourt-Silva, M. & Sousa, B. (2012). Delay in diagnosis of Pulmonary Tuberculosis in Portugal. IWSM2012 - 27th International Workshop on Statistical Modelling.
44	Gomes D, Filipe, P.A., Sousa, B., Briz, T. & Nunes C (2012). Modelação da Demora no Diagnóstico de Tuberculose Pulmonar em Portugal. XX Congresso Anual da Sociedade Portuguesa de Estatística.
45	Gomes D, Nunes C, Filipe, P.A. & Briz, T. (2011). Controlo da Tuberculose em Portugal: demora entre o início dos primeiros sintomas e o diagnóstico da doença. XIX Congresso Anual da Sociedade Portuguesa de Estatística.
46	Nunes C, Briz, T., Gomes D & Filipe, P.A. (2011). Pulmonary Tuberculosis and HIV/AIDS: joint space-time clustering under an epidemiological perspective. Spatial Data Methods for Environmental and Ecological Processes - 2ª Edição.

## Academic Management Positions

Presidente (2025 - 2028)  
Unit/Area: Ethics Committee

Membro (2023 - 2026)  
Unit/Area: Ethics Committee