

## Relatório de Progresso

[Relatório de Progresso Lacrado com Sucesso a 30-01-2017]

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### Informação:

Qualquer dúvida relacionada com o preenchimento do Formulário de Relatório de Progresso, por favor consulte o link "Notas e Informações", Relatórios Científicos de Progresso.

### Atenção:

- A sessão expira ao fim de **20 minutos** de inatividade!
- O formato da data a utilizar é **dd-mm-yyyy**

### Nota para Projectos com a referência PEst:

A equipa que figura neste relatório de progresso resulta do cruzamento das equipas atualizadas à data de **31.12.2009** e **31.12.2011** e das alterações (inclusão/exclusão de elementos e alterações de %) solicitadas pelos beneficiários no decurso do ano de 2012. Brevemente será solicitada às instituições de I&D a atualização da equipa nos moldes habituais, motivo pelo qual não é imperativo o preenchimento/atualização dos campos editáveis do formulário de progresso relativos à equipa de investigação.

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## Formulário Relatório de Progresso - Componente Científica

### Relatório de Progresso nº 2

Período a que o relatório diz respeito:

Data de início: 01-01-2016

Data de fim:

### 1. Identificação do Projecto

**Referência do Projecto:** UID/MAT/00006/2013

**Investigador Responsável:** Lisete Maria Ribeiro de Sousa

**Instituição Proponente:** Fundação da Faculdade de Ciências da Universidade de Lisboa, FP (FFC/FC/ULisboa)

**Data de Início:** 01-01-2015    **Data de Fim:** 31-12-2017

**Financiamento Concedido:** € 231.360,00

### 2. Resumo dos Trabalhos Desenvolvidos e Desvios à Proposta aprovada

#### Resumo dos trabalhos

Descreva de forma breve as actividades desenvolvidas **no período em apreço** e os resultados alcançados. Referia-se em concreto às tarefas que tiveram execução no período a que o relatório respeita.

## 1-Introductory remarks

CEAUL's regular activities were resumed at beginning of May 2016, after the result of CEAUL's appeal to the evaluation was known and funding was awarded. Although this situation had a negative impact in the proposed CEAUL's extra activities for 2015 and 2016, CEAUL's researchers tried continuing their regular research activities in their specific field of research. This report includes the research activities of those who were considered as integrated members in 2016. It does not include the research developed by collaborators, in particular CEAUL members who are also members of other FCT research units where they have a higher percentage. A list of those integrated members is included in the document attached to this report, as well as a complete list of publications (international/national: 4/1 chapters of books; 3/1 editions of books, 58/5 articles in journals, 9/12 proceedings), communications (23 seminars by invitation, 5 plenary talks, 41 Invited talks, 63 international contributed talks, 11 national contributed talks), projects and other activities. Part of those publications which in some way reflect the variety of research developed in CEAUL are in section 3 of this report.

In section 4, chapters of books are included in the field reserved for international publications, since there is again not a specific place for them. In communications we do not include all those presented in national or international meetings, but only those that appeared in proceedings and/or were delivered by integrated CEAUL members. They appear with a \* in the list of communications of the attached pdf. In order to attain the strategic objectives, the R&D unit adopted an organizational framework based on two groups and three thematic lines horizontal to the groups.

## 2-Main topics of research developed during 2016

### Group 1: Order Statistics, Extremes, Modelling and Simulation:

Dependence modelling, tail trend estimation and testing, with application to extreme rainfall; Mean-of-order-p reduced-bias extreme value index estimation under a third-order framework; Competitive estimation of the right endpoint; Efficiency and robustness: Non-reduced versus reduced-bias estimation of the extreme value index; Analysis of well-being in OECD countries through STATIS methodology; Stability analysis of Gompertz's logistic growth curves; Extremal models, random growth rate and carrying capacity in population dynamics; Efficient acoustic density estimation methods; Acceptance sampling plans for sensory and chromatography analysis; Inflated Pareto Processes in Statistical Quality Control; Pseudo-p-values and meta-analysis; Time Series in Remote Sensing Data; Hadamard matrices on error detection and correction: useful links to BIBD; Animal movement on point transect sampling abundance estimates; Multivariate control charts.

### Group 2: Statistical Models and Methods for Complex Systems

Adjusting for bias in extremes of continuous time processes observed at discrete Times; Monitoring a changing tail index; Studies on the POT method in extreme value theory; A spatial point process approach for unemployment estimation; A new approach to study the identification of seven day cycles in time series of environmental processes; Fitting generalized linear mixed effects models for longitudinal binary data using different correlation structures.

Thematic line on Environmental Statistics: Spatio-temporal modelling of fire density observed per week day in each county of USA; Detection of anthropogenic Influences on Spatial and Temporal Variation in Fire Activity; spatial modelling of abundance of culex pipiens in Portugal; Spatio-temporal analysis of regional unemployment rates; Assessing reference evapotranspiration estimation from reanalysis weather products.

Thematic line on Biostatistics: Serology and mathematical modelling as joint tools to inform the epidemiology of infectious diseases on the cusp of elimination; Pattern recognition in medical research; The influence of the winter NAO index on hospital admissions through diseases of the circulatory system; Relevance of DNA flow cytometry in the prognosis of breast cancer; Screening and validation in the personalized ICT service for independent living and active ageing; Kidney disease progression and associated factors in hiv patients; Sample size calculators for estimating antimalarial seroconversion rate and its putative changes over time; Statistical analysis to detect Increased frequency of the Autism Broader Phenotype in Mothers Transmitting Etiological CNVs to Sons Affected by Autism Spectrum Disorder. Thematic line on Risk in Financial Extremes: Edition of a special volume of REVSTAT, Statistical Journal, on Special Issue on Risk Analysis—Challenges and Applications; Bootstrap methodology for threshold selection, with algorithms implemented in the R-software; New value-at-risk estimation procedures; Tailoring of heavy truncated tails.

## 3-Advanced training

There were 23 master dissertations and 6 Ph.D theses supervised by members of CEAUL. Besides, members of CEAUL lectured 8 advanced or specialized courses. An advanced course on Computational Bayesian Statistics was organized by CEAUL.

## 4-Organization of events

There were 14 seminars organized by CEAUL; Members of CEAUL were responsible for the organization of

11 meetings out of the 26 participation in scientific and organizing committees. There were 3 international and 1 national books edited with referred and selected papers from organized conferences.

#### 5-Projects and consultancy

During 2016 members of CEAUL were involved in projects, 3 involving FFCUL participation and 25 as team members. Consultancy work was done for 4 entities (3 of them with FFCUL's involvement). They are listed in the attached pdf.

#### 6-Projects evaluation and refereeing services

Some CEAUL members were in panels for evaluating international projects and most members acted as referees for a large diversity of international periodicals.

### **Desvios à Proposta Aprovada**

Se tiver havido desvios à proposta aprovada, quer do ponto de vista científico como financeiro, aponte os desvios e justifique-os. Se teve dificuldades na execução do plano de trabalhos aprovado, identifique-os e indique de que modo pretende ultrapassá-los.

Se no período em apreço tiver informado a FCT sobre alteração orçamental inter-rubricas (necessitem ou não de autorização por parte da FCT), indique aqui o motivo.

#### Scientific

CEAUL established as main objectives for 2015-2020:

a) Develop fundamental research on diverse domains of Statistics, with the aim of extending the frontiers of statistical knowledge and provide statistical tools for experimental sciences, while collaborating with researchers from other domains and scientific areas.

This objective was well accomplished during 2016 although it is recognized that some members showed limited activity during 2016 and this problem needs to be addressed in the nearby future.

b) Participate in national and international projects of an interdisciplinary nature. Some of these objectives were accomplished. However, some of the proposed projects during 2015 were not approved; examples are, among others, the Proposal Reference OC-2015-2-19972, Title: "Quantifying uncertainty for the assessment of interactions between environmental and ecological processes", Proposal Acronym QUBEPP; Daniela Cocchi, coordinator; Open Call Collection OC-2015-1 (Cost Action - Horizon 2020), Proposal Reference OC-2015-1-19437, on "European Network for the Study and Application of Medico-Legal Age Estimation (EURONET-MEDLage)".

c) Participate actively in Society by giving support to Industry, Commerce, Services and Business in the form of consultancy or specialized courses.

This was reasonably accomplished during 2016, despite the fact that only a small number of CEAUL members are available to accept doing consultancy work. Indeed most CEAUL members are overloaded with lecturing time. It is worthwhile considering however that, during 2016, CEAUL became a partner at the international network PT-MATHS-IN, with projects on Health and Medicine, Energy and Water Networks and Logistic-Traffic Models. The delegates are Fernanda Figueiredo from group G1 and Sandra Ramos from group G2.

d) Develop advanced training activities through the involvement in Ph.D. programs of High Education Institutions and the organization of advanced courses in emerging areas of Statistics. Due to the fact that funding was only available in May 2016, CEAUL could not offer, as expected, the program for 2016 regarding courses and seminars offered by international researchers in emerging areas of statistics. Only 5 international researchers came to give seminars at CEAUL. However members of CEAUL were involved in the organization of some international conferences and workshops. Proposals for the organization of advanced courses in 2016 were postponed for 2017 (for instance the one on Bayes X), as well as the organization of a workshop on Survival Analysis and on Statistics and Big Data in Finance. Regarding the Ph.D. program, there is a lack of interest within students from Portugal to follow a Ph.D. program in Statistics, since prospects of finding a job after a PhD, particularly in academic career, are feeble. Hence, the number of Ph.D. students in CEAUL has been decreasing and 2016 was no exception. Also for reasons out of our control, the collaboration with researchers from Brazilian federal universities towards joint research and advanced training/supervision of students in postgraduate studies could not go ahead.

#### Financial

Only during May 2016, CEAUL knew how much financing was going to receive. As a consequence most of the budget allocated for the different items was not used in totality, with exception for the amount

allocated for the budget for missions: the budget for missions was 48000€ but it was spent 48117,15€ due to the fact that some travel expenses for international researchers were paid during 2016 although their missions will be during the first two months of 2017.

### 3. Publicações

Apenas para o período a que respeita o Relatório de Progresso, indique trabalhos apresentadas ou aceites para publicação ou apresentação, e trabalhos submetidos no período a que o relatório respeita.

A informação pretendida neste campo é inserida em formato livre. Para cada publicação deve ser indicada a seguinte informação:

- Descrição, contendo os seguintes elementos:
  - Em livros ou monografias: autor(es), título, número e/ou identificação da edição, número do volume, lugar da publicação, número de páginas;
  - Em revistas científicas: autor(es), título, título da revista, lugar da publicação, número do volume, número da primeira e última página;
  - Em artigos ou abstracts de comunicações científicas ou outras participações de índole científica em congressos internacionais ou nacionais: autor(es), título do artigo ou comunicação, nome da publicação, volume, número de páginas;
- Estado, indicando a situação:
  - Publicado/Apresentado;
  - Aceite para publicação/apresentação;
  - Submetido.

Nos trabalhos aceites para apresentação ou publicação, a data de aceitação deve ser indicada no campo descrição.

**Nota em 22-11-2011:** Para os trabalhos que tenham sido publicados ou apresentados deve ser indicado o URL onde o mesmo possa ser consultado, devendo este URL ser mantido pelo mesmo período do dossier de projecto.

#### Exemplos:

- Aceite - I. Santos, J. Rodrigues, "Non linear control design of a team of autonomous vehicles", aceite (Dezembro de 2008) para apresentação na IEEE Conference on Control Systems, Madrid, Espanha, Maio de 2009. URL: <http://www.xpto.xpto.pt>
- Publicado - A. Silva, P. Oliveira, "Social behaviour of a dog colony in extreme conditions", Journal of Animal Behaviour, Elsevier, Vol. 2, Nº3, pp.373-395, September 2009. URL: <http://www.xpto.xpto.pt>
- Apresentado - V. Santos, J. Rodrigues, "Medical image segmentation for endoscopy applications", Proc. of the International Conference on Medical Imaging, Pittsburgh, USA, March 2009, pp. 304-312. URL: <http://www.xpto.xpto.pt>
- Submetido - M. Santos, P. Oliveira, "Comparative Analysis of Elephant Populations", submetido (Fevereiro de 2009) para apresentação na International Conference on Veterinary Studies, S. Paulo, Brasil, Novembro de 2009.

**Nota em 22-11-2011:** Chama-se a atenção para a necessidade absoluta do cumprimento das **Normas de Informação e Publicidade** disponíveis para consulta em <http://www.fct.pt/apoios/projectos/regulamentos>  
Nessas normas são indicadas frases tipo de publicitação para o caso de artigos científicos e teses.

Bastos HP, Sousa L, Clarke LA & Couto FM (2016). Functional Coherence Metrics in Protein Families. Journal of Biomedical Semantics 7:41.  
DOI: 10.1186/s13326-016-0076-y

Beirlant J, Fraga Alves MI & Gomes MI (2016). Tail fitting for truncated and non-truncated Pareto-type distributions. Extremes 19(3) 429-462.  
DOI: 10.1007/s10687-016-0247-3

Caeiro F, Gomes MI & Henriques-Rodrigues L (2016) A location invariant probability weighted moment EVI estimator. International Journal of Computer Mathematics 93(4), 676–695.  
DOI: 10.1080/00207160.2014.975217

Carvalho V, Polidoro MJ, Magalhães, JP (2016). OwlSight: Platform for Realtime Detection and Visualization of Cyber Threats. In Proc. of the 2nd International Conference on Big Data Security on Cloud, 61-66. <http://ieeexplore.ieee.org/document/7502265/>

Cardoso G, Papoila AL, Tomé G, Killaspy H, King M & Caldas-de-Almeida JM (2016). Living conditions and quality of care in residential units for people with long-term mental illness in Portugal - a cross-sectional study. *BMC Psychiatry* 16:34.  
DOI: 10.1186/s12888-016-0743-7

Cesário C., Santos R, Pestana D & Pereira CP (2016). Medico-Legal Age Estimation in a Sub-adult Portuguese Population: Validation of Atlas Schour and Massler and London, *Journal of Civil & Legal Sciences* 5:4.  
DOI: 10.4172/2169-0170.1000196

Craveiro I, Alves D, Amado M, Santos Z, Fortes A, Delgado A, Correia A, Gonçalves L (2016). Determinants, health problems and food insecurity in urban areas of the largest city in Cape Verde. *International Journal of Environmental Research and Public Health* 13 (1155):1-14.  
DOI: 10.3390/ijerph13111155

de Carvalho M, Turkman MA, Pinto S, Swash M (2016). Modulation of fasciculation frequency in amyotrophic lateral sclerosis. *Journal of Neurology, Neurosurgery and Psychiatry*, 87:226-228.  
DOI:10.1136/jnnp-2014-309686.

Einmahl JHJ, L de Haan & C Zhou (2016). Statistics of heteroscedastic extremes. *Journal of the Royal Statistical Society, Series B*, 78, 31-51.  
DOI: 10.1111/rssb.12099/abstract

Figueiredo F & Gomes MI (2016). The total median statistic to monitor contaminated normal data. *Quality Technology and Quantitative Management* 13(1), 78-87.  
DOI: 10.1080/16843703.2016.1139840

Frasier KE, Wiggins SM, Harris D, Marques TA, Thomas L & Hildebrand JA (2016). Delphinid echolocation click detection probability on near-seafloor sensors. *The Journal of the Acoustical Society of America*. 140: 1918-1930.  
DOI: 10.1121/1.4962279

Goela PC, Cordeiro C, Danchenko S, Icely J, Cristina S & Newton A. (2016). Time series analysis of data for Sea Surface Temperature and Upwelling components from the Southwest Coast of Portugal. *Journal of Marine Systems*, Volume 163, 12-22, November 2016.  
DOI: 10.1016/j.jmarsys.2016.06.002

Gomes MI, Brilhante MF & Pestana D (2016). New reduced-bias estimators of a positive extreme value index. *Communications in Statistics: Simulation and Computation* 45, 1-30.  
DOI: 10.1080/03610918.2013.875567

Gouveia-Reis D, Guerreiro Lopes, L. & Mendonça S (2016). A dependence modelling study of extreme rainfall in Madeira Island. *Physics and Chemistry of the Earth* 94: 85-93.  
DOI: 10.1016/j.pce.2015.11.006

Jolliffe IT & Cadima J (2016). Principal component analysis: a review and recent developments. *Philosophical Transactions of the Royal Society A*, 374 (Theme issue on Adaptive data analysis: theory and applications).  
DOI: 10.1098/rsta.2015.0202.

Marques TA (2016). A comment on Horcajada-Sánchez and Barja: a cautionary tale about left truncation and density gradients in distance sampling. *Annales Zoologici Fennici* 53:52-54.  
DOI: 10.5735/086.053.0204

Martins R, Silva GL & Andreozzi V (2016). Bayesian joint modeling of longitudinal and spatial survival AIDS data. *Statistics in Medicine*, 35, 3368-3384.  
DOI: 10.1002/sim.6937/abstract

Oliveira A, Oliveira TA & Seijas-Macias A (2016). Skewness into the product of two normally distributed variables and the risk consequences. *REVSTAT, Statistical Journal, Special Issue on Risk Analysis: Challenges and Applications* 14:2, 119-138.  
<https://www.ine.pt/revstat/pdf/rs160202.pdf>

Paíga P, Santos LH, Ramos S, Jorge S, Silva JG, Delerue-Matos C (2016). Presence of pharmaceuticals in the Lis river (Portugal): Sources, fate and seasonal variation. *Science of The Total Environment*, 573, 164-177.  
DOI:10.1016/j.scitotenv.2016.08.089

Rocha JL, Taha A-K. & Fournier-Prunaret D. (2016). Dynamical Analysis and Big Bang Bifurcations of 1D and 2D Gompertz's Growth Functions, *International Journal of Bifurcation & Chaos*, 26(11), 1630030 (22). DOI: 10.1142/S0218127416300305

Santos R, Felgueiras M & Martins JP (2016). Pseudo-convex Mixtures Generated by Shape-extended Stable Distributions for Extremes, *Journal of Statistical Theory and Practice*. 357-374. DOI: 10.1080/15598608.2016.1146929

Silva C, Freitas A, Roque S & Sousa L (2016). Arrow Plot and CA Maps for Visualizing the Effects of Background Correction and Normalization Methods on Microarray Data. In M. Elloumi, C. S. Iliopoulos, J. T. L. Wang, A. Y. Zomaya (eds.), *Pattern Recognition in Computational Molecular Biology: Technologies and Approaches*, John Wiley & Sons, pp.. 394-416. ISBN-10:1118893689. DOI: 10.1002/9781119078845.ch21/summary

Sousa Pedro M, Barriopedro D, Trigo R, Ramos AM, Gimeno NL, Turkman KF, Liberato MLR (2016). Impact of Euro-Atlantic blocking patterns in Iberia precipitation using a novel high resolution dataset. *Clim Dyn*. 46: 2573. DOI: 10.1007/s00382-015-2718-7

Sepúlveda N, Morais CG, Mourão LC, Freire MF, Fontes CJ, Lacerda MV, Drakeley CJ, Braga ÉM (2016). Allele-specific antibodies to Plasmodium vivax merozoite surface protein-1: prevalence and inverse relationship to haemoglobin levels during infection. *Malar J*. 15(1):559. DOI:10.1186/s12936-016-1612-z

Torres MO & Neves MM (2016). A preliminary spatial-temporal study of some soil characteristics in the calcareous massif of Sicó, Portugal. *Geospatial Health*, 11:342, 70-74. DOI: 10.4081/gh.2016.342

#### 4. Indicadores de Realização Física

Neste quadro deve indicar os valores referentes ao período a que corresponde o Relatório de Progresso.

Neste quadro deve apenas indicar concretizações efectivas. Não indique publicações submetidas para publicação, nem teses que ainda não tenham sido discutidas.

Indicadores	Quantidade realizada
<b>A - Publicações</b>	
Livros	2
Artigos em revistas internacionais	62
Artigos em revistas nacionais	6
<b>B - Comunicações</b>	
Comunicações em encontros científicos internacionais	87
Comunicações em encontros científicos nacionais	30
<b>C - Relatórios</b>	11
<b>D - Organização de seminários e conferências</b>	51
<b>E - Formação avançada</b>	
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Teses de Mestrado	23
Outras	9
<b>F - Modelos</b>	0
<b>G - Aplicações computacionais</b>	0
<b>H - Instalações piloto</b>	0
<b>I - Protótipos laboratoriais</b>	0
<b>J - Patentes</b>	0
<b>L - Outros</b>	

### 5. Ficheiros Anexos (opcional)

Neste item poderá incluir, apenas se entender como estritamente necessário, ficheiros com formato PDF, que tenham sido referidos no relatório, por exemplo, gráficos, esquemas, fotografias. O conjunto dos ficheiros (em número máximo de cinco) ou o arquivo comprimido a submeter não poderão ultrapassar 10MB.

Nome	Ponto do RP	Descrição
<a href="#">CEAULPublicações2016.pdf</a>	2	CEAUL_Lista_de_Publicações_2016



Centro de Estatística e Aplicações  
Universidade de Lisboa

## Centre of Statistics and its Applications

CEAUL

### Annex to the 2016 report

#### List of the members considered for this report

##### Group1 - Order Statistics, Extremes, Modelling and Simulation

###### Principal Researcher:

Maria Ivette Leal de Carvalho Gomes

###### Integrated:

Dinis Duarte Ferreira Pestana  
Maria Manuela Costa Neves Figueiredo  
Luísa da Conceição S. Canto e Castro Loura  
Maria Isabel Fraga Alves  
Rita Maria C. e Sá Fernandes de Vasconcelos  
Amílcar Manuel do Rosário Oliveira  
Ana Maria Santos Ferreira Gorjão Henriques  
Clara Maria Henrique Cordeiro  
Cláudia Margarida Pedrosa Neves  
Cristiana Maria Palmela Pereira  
Délia Canha Gouveia Reis  
Fernanda Otilia de Sousa Figueiredo  
Maria de Fátima Almeida Brilhante  
Sandra Maria Freitas Mendonça  
Teresa Paula Costa Azinheira Oliveira  
Maria Marise Simões de Almeida  
Tiago André Lamas Oliveira Marques  
José Leonel Linhares da Rocha



Sandra Maria da Silva Figueiredo Aleixo  
João Paulo Oliveira Martins  
Miguel Martins Felgueiras  
Paula Cristina Martins dos Reis  
Paulo José Araújo dos Santos  
Rui Filipe Vargas de Sousa Santos

## **Group2 - Statistical Models and Methods for Complex Systems**

### **Principal Researcher:**

Maria Antónia Amaral Turkman

### **Integrated:**

Kamil Feridun Turkman  
Carlos Daniel Paulino  
Jorge Filipe Campinos Landerset Cadima  
Lisete Maria Ribeiro de Sousa  
Maria Lucília Salema e Carvalho  
Maria Salomé Esteves Cabral  
Ana Luísa Trigo da Silva  
Giovani Loiola da Silva  
Luzia Augusta Pires Gonçalves  
Maria Helena Neves Queirós Gonçalves  
Marília Cristina de Sousa Antunes  
Patrícia Cortés de Zea Bermudez  
Valeska Andreozzi  
Laurens de Haan  
Carina Soares da Silva  
Maria da Conceição Rodrigues Ribeiro  
Maria João Fernandes Pereira Polidoro  
Paula Cristina Sequeira Pereira  
Ricardo Miguel Vieira de São João  
Sandra Cristina Faria Ramos  
Ivone Maria Ribeiro Figueiredo da Silva Rosa  
Nuno Sepúlveda

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## PUBLICATIONS 2016

(Members of CEAUL underlined)

### BOOKS INTERNATIONAL

#### CHAPTER OF BOOKS INTERNATIONAL

(4)

Fraga Alves, M.I. & Neves, C. (2016). Extreme Value Theory: An Introductory Overview. In F. Longin (ed.), *Extreme Events in Finance: A Handbook of Extreme Value Theory and its Applications*. Handbook Series in Financial Engineering and Econometrics (Ruey Tsay Adv.Ed.). John Wiley & Sons, pp. 53-95.

<http://eu.wiley.com/WileyCDA/WileyTitle/productCd-1118650190.html#>

Gomes, M.I., Caeiro, F., Henriques-Rodrigues, L. & Manjunath, B.G. (2016). Bootstrap methods in statistics of extremes. In F. Longin (ed.), *Extreme Events in Finance: A Handbook of Extreme Value Theory and its Applications*. Handbook Series in Financial Engineering and Econometrics (Ruey Tsay Adv.Ed.). John Wiley & Sons, Chapter 6, pp. 117-138. <http://eu.wiley.com/WileyCDA/WileyTitle/productCd-1118650190.html#>

Pestana, D. & Sequeira, F. (2016). The Ways of Probable Truth. In O. Pombo & G. Santos (eds.), *Philosophy of Science in the 21st Century—Challenges and Tasks*, Documenta, CFCUL, 91-111.

<http://www.google.pt/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&ved=0ahUKEwi1iO6en9TRAhUDfRokHRibAXoQFggbMAA&url=http%3A%2F%2Fwww.ceaui.fc.ul.pt%2Fgetfile.asp%3Fwhere%3Dnotas%26id%3D352&usq=AFQjCNGd5wS0ZsIrl-nTBQWhsuwNTqeUQ&sig2=pR0ZSUJG46pRqWvbqwr0A>

Silva, C., Freitas, A., Roque, S. & Sousa, L. (2016). Arrow Plot and CA Maps for Visualizing the Effects of Background Correction and Normalization Methods on Microarray Data. In M. Elloumi, C. S. Iliopoulos, J. T. L. Wang, A. Y. Zomaya (eds.), *Pattern Recognition in Computational Molecular Biology: Technologies and Approaches*, John Wiley & Sons, pp. 394-416. (ISBN-10:1118893689)

<http://onlinelibrary.wiley.com/doi/10.1002/9781119078845.ch21/summary>

### BOOKS (EDITOR) INTERNATIONAL

(3)

Bozeman, J.R., Oliveira, T.A. & Skiadas, C.H. (2016)<sup>#</sup>. *Stochastic and Data Analysis Methods and Applications in Statistics and Demography*. Copyright © 2016 by ISAST. 720pgs. ISBN (print): 978-618-5180-18-8; ISBN (e-book): 978-618-5180-19-5. URL:

<http://www.asmda.es/asmdabooks.html>

<sup>#</sup> Listed as a book in the point 4 of the report.

**Oliveira, T.A.**, Mejza, S., Kitsos, C., **Oliveira, A.**, Nata, A. & Grilo, L. (2016): *Book of Abstracts of 10th Workshop on Statistics, Mathematics and Computation and 5<sup>th</sup> Portuguese–Polish Workshop on Biometry*. Editora: IPT-Instituto Politécnico de Tomar; Published and Printed by INE- Instituto Nacional de Estatística, 214pgs. ISBN: 978-989-8840-00-4. Depósito Legal N<sup>o</sup>: 410112/16.  
[http://media.wix.com/ugd/447163\\_edafffcfab7a4b0a8c316dd67354a6c3.pdf](http://media.wix.com/ugd/447163_edafffcfab7a4b0a8c316dd67354a6c3.pdf)

**Oliveira, T.A., Oliveira, A.**, Mahmoudvand, R., Ravishankar, N. & Banks, D. (2016). *Book of Abstracts - ISBIS 2016 Meeting on Statistics in Business and Industry*. Editora: e-Book published by Universidade Aberta de Lisboa. 79pages. ISBN (print): 978-972-674-795-6.  
<https://repositorioaberto.uab.pt/handle/10400.2/5732>.

## PUBLICATIONS INTERNATIONAL

(58)

Alfarroba, S., Rodrigues, F., **Papoila, A.L.**, Santos, A.F. & Morais, L. (2016). Pulmonary rehabilitation in COPD according to global initiative for Chronic Obstructive Lung Disease categories. *Respiratory Care* **61**(10), 1331-1340.  
[DOI:10.4187/respcare.04414](https://doi.org/10.4187/respcare.04414)

Bastos, H.P., **Sousa, L.**, Clarke, L.A. & Couto, F.M. (2016). Functional coherence metrics in protein families. *Journal of Biomedical Semantics* **7**:41.  
<https://jbiomedsem.biomedcentral.com/articles/10.1186/s13326-016-0076-y>

Beirlant, J., **Fraga Alves, M.I.** & **Gomes, M.I.** (2016). Tail fitting for truncated and non-truncated Pareto-type distributions. *Extremes* **19**(3) 429-462.  
<http://dx.doi.org/10.1007/s10687-016-0247-3>

Brito-Costa, A., Pereira-da-Silva, L., **Papoila, A.L.**, Alves, M., Mateus, E., Nolasco, F. & Barroso, E. (2016). Factors associated with changes in body composition shortly after orthotopic liver transplantation: the potential influence of immunosuppressive agents. *Transplantation* **100**(8), 1714-1722.  
[DOI:10.1097/TP.0000000000001202](https://doi.org/10.1097/TP.0000000000001202)

Cairo, F., **Gomes, M.I.**, Beirlant, J. & de Wet, T. (2016). Mean-of-order-p reduced-bias extreme value index estimation under a third-order framework. *Extremes* **19**(4), 561-589.  
<http://dx.doi.org/10.1007/s10687-016-0261-5>

Cairo, F., **Gomes, M.I.** & Henriques-Rodrigues, L. (2016). A location invariant probability weighted moment EVI estimator. *International Journal of Computer Mathematics* **93**(4), 676–695.  
<http://dx.doi.org/10.1080/00207160.2014.975217>

Cardoso, G., **Papoila, A.L.**, Tomé, G., Killaspy, H., King, M. & Caldas-de-Almeida, J.M. (2016). Living conditions and quality of care in residential units for people with long-term mental illness in Portugal - a cross-sectional study. *BMC Psychiatry* **16**:34.  
[DOI:10.1186/s12888-016-0743-7](https://doi.org/10.1186/s12888-016-0743-7)

Cardoso, G., Graça, J., Klut, C., Trancas, B. & **Papoila, A.L.** (2016). Depression and anxiety symptoms following cancer diagnosis: a cross-sectional study. *Psychology, Health & Medicine* **21**(5), 562-570.

[DOI:10.1080/13548506.2015.1125006](https://doi.org/10.1080/13548506.2015.1125006)

Canton, G.C., Bertolazi, A.A., Cogo, A.J., Eutrópico, F.J., Melo, J., de Souza, S.B., A Krohling, A.C., Campostrini, E., da Silva, A.G., Façanha, A.R., **Sepúlveda, N.**, Cruz, C., Ramos, A.C. (2016). Biochemical and ecophysiological responses to manganese stress by ectomycorrhizal fungus *Pisolithus tinctorius* and in association with *Eucalyptus grandis*. *Mycorrhiza* **26**, 475-87.

[DOI:10.1007/s00572-016-0686-3](https://doi.org/10.1007/s00572-016-0686-3)

Carreiro-Martins, P., Gomes-Belo, J., **Papoila, A.L.**, Caires, I., Palmeiro, T., Gaspar-Marques, J., Leiria-Pinto, P., Mendes, A., Teixeira, J.P., Botelho, M.A. & Neuparth, N. (2016). Chronic respiratory diseases and quality of life in elderly nursing home residents. *Chronic Respiratory Disease* **13**(3), 211-219

[DOI:10.1177/1479972316636990](https://doi.org/10.1177/1479972316636990)

Carreiro-Martins, P., **Papoila, A.L.**, Caires, I., Azevedo, S., Cano, M.M., Virella, D., Leiria-Pinto, P., Teixeira, J.P., Rosado-Pinto, J., Annesi-Maesano, I. & Neuparth, N. (2016). Effect of indoor air quality of day care centers in children with different predisposition for asthma. *Pediatric Allergy Immunology* **27**(3), 299-306.

[DOI:10.1111/pai.12521](https://doi.org/10.1111/pai.12521)

Castagliola, P., Maravelakis, P.E. & **Figueiredo, F.** (2016). The EWMA median chart with estimated parameters. *IIE Transactions* **48**:1, 66-74.

[DOI:10.1080/0740817x.2015.1056861](https://doi.org/10.1080/0740817x.2015.1056861)

Cesário, C., **Santos, R.**, **Pestana, D.** & **Pereira, C.P.** (2016). Medico-legal age estimation in a sub-adult Portuguese population: validation of Atlas Schour and Massler and London. *Journal of Civil & Legal Sciences* **5**:4.

[DOI:10.4172/2169-0170.1000196](https://doi.org/10.4172/2169-0170.1000196)

Charters de Azevedo, F., **Oliveira, T.A.** & **Oliveira, A.** (2016). Modeling non-life insurance price for risk without historical information. *REVSTAT, Statistical Journal, Special Issue on Risk Analysis: Challenges and Applications* **14**:2, 171-192.

<https://www.ine.pt/revstat/pdf/rs160205.pdf>

Craveiro, I., Alves, D., Amado, M., Santos, Z., Fortes, A., Delgado, A., Correia, A., **Gonçalves, L.** (2016). Determinants, health problems and food insecurity in urban areas of the largest city in Cape Verde. *International Journal of Environmental Research and Public Health* **13** (1155):1-14

[DOI:10.3390/ijerph13111155](https://doi.org/10.3390/ijerph13111155)

Cristina, S., **Cordeiro, C.**, Lavender, S., Goela, P., Icely, I. & Newton, A. (2016). MERIS phytoplankton time series products from the SW Iberian Peninsula (Sagres) using seasonal-trend decomposition based on Loess. *Remote Sensing* **8**:6, 449.

[DOI:10.3390/rs8060449](https://doi.org/10.3390/rs8060449)

de Carvalho, M., **Turkman, A.**, Pinto, S. & Swash, M. (2016). Modulation of fasciculation frequency in amyotrophic lateral sclerosis. *Journal of Neurology, Neurosurgery and Psychiatry*, **87**:226-228  
[DOI:10.1136/jnnp-2014-309686](https://doi.org/10.1136/jnnp-2014-309686).

**de Haan, L.**, Mercadier, C. & Zhou, C. (2016). Adapting extreme value statistics to financial time series: dealing with bias and serial dependence. *Finance and Stochastics*, **20**, 321-354.  
<http://link.springer.com/article/10.1007/s00780-015-0287-6>

Einmahl, J.H.J., **de Haan, L.** & Zhou, C. (2016). Statistics of heteroscedastic extremes. *Journal of the Royal Statistical Society, Series B*, **78**, 31-51.  
<http://onlinelibrary.wiley.com/doi/10.1111/rssb.12099/abstract>

Dias, F.S., Miller, D.L., **Marques, T.A.**, Marcelino, J., Caldeira, M.C., Cerdeira, J.O. & Bugalho, M.N. (2016). Conservation zones promote oak regeneration and shrub diversity in certified Mediterranean oak woodlands. *Biological Conservation* **195**: 226-234.  
[DOI:10.1016/j.biocon.2016.01.009](https://doi.org/10.1016/j.biocon.2016.01.009)

Faleiro, F., **Marques, T.A.**, Bispo, R., Dionísio, G., Faria, A.M., Machado, J., Peck, M.A., Pörtner, H., Pousão-Ferreira, P., Gonçalves, E.J. & Rosa, R. (2016). Foraging behaviour, swimming performance and malformations of early stages of commercially important fishes under ocean acidification and warming. *Climatic Change* **137**: 495-509.  
[DOI:10.1007/s10584-016-1682-5](https://doi.org/10.1007/s10584-016-1682-5)

**Figueiredo, F.** & **Gomes, M.I.** (2016). The total median statistic to monitor contaminated normal data. *Quality Technology and Quantitative Management* **13**(1), 78-87.  
<http://dx.doi.org/10.1080/16843703.2016.1139840>

Frasier, K.E., Wiggins, S.M., Harris, D., **Marques, T.A.**, Thomas, L. & Hildebrand, J.A. (2016). Delphinid echolocation click detection probability on near-seafloor sensors. *The Journal of the Acoustical Society of America*. **140**: 1918-1930.  
[DOI:10.1121/1.4962279](https://doi.org/10.1121/1.4962279)

Goela, P.C., **Cordeiro, C.**, Danchenko, S., Icely Cristina, S. & Newton, A. (2016). Time series analysis of data for Sea Surface Temperature and Upwelling components from the Southwest Coast of Portugal. *Journal of Marine Systems*, Volume 163, 12-22, November 2016.  
[DOI:10.1016/j.jmarsys.2016.06.002](https://doi.org/10.1016/j.jmarsys.2016.06.002).

**Gomes, M.I.** & Henriques-Rodrigues, L. (2016). Competitive estimation of the extreme value index. *Statist. and Probab. Letters* **117**, 128-135.  
<http://dx.doi.org/10.1016/j.spl.2016.05.012>

**Gomes, M.I.**, **Brilhante, M.F.** & **Pestana, D.** (2016). New reduced-bias estimators of a positive extreme value index. *Communications in Statistics: Simulation and Computation* **45**, 1-30.  
<http://dx.doi.org/10.1080/03610918.2013.875567>

**Gomes, M.I.**, Henriques-Rodrigues, L. & Manjunath, B.L. (2016). Mean-of-order-p location-invariant extreme value index estimation. *Revstat* **14**:3, 273-296.  
<https://www.ine.pt/revstat/pdf>

**Gouveia-Reis, D.**, Guerreiro Lopes, L. & **Mendonça, S.** (2016). A dependence modelling study of extreme rainfall in Madeira Island. *Physics and Chemistry of the Earth* **94**: 85-93. DOI:10.1016/j.pce.2015.11.006

Henning, E., Tondo, G.H., Chechin, R.J., Hackenberg, A.M. & **Oliveira, T.A.** (2016). *Aplicação do DOE no conforto térmico e edificações*. TMQ- Número Especial – Técnicas Avançadas da Qualidade, *REVISTA TMQ-Techniques, Methodologies and Quality*. Editors: Nuno Costa, António Ramos Pires, Margarida Saraiva & Álvaro Rosa. ISSN: 2183-0940.  
<http://publicacoes.apq.pt/tmq-numero-especial-tecnicas-avancadas-qualidade/>

Jolliffe, I.T. & **Cadima, J.** (2016). Principal component analysis: a review and recent developments. *Philosophical Transactions of the Royal Society A*, **374** (Theme issue on Adaptive data analysis: theory and applications).  
DOI:10.1098/rsta.2015.0202.

Kidney, D., Rawson, B. M., Borchers, D.L., Thomas, L., **Marques, T.A.** & Stevenson, B. (2016). An efficient acoustic density estimation method with human detectors applied to gibbons in Cambodia. *PLoS One*. **11**: e0155066.  
DOI:10.1371/journal.pone.0155066

Leiva, V., Ferreira, M., **Gomes, M.I.** & Lillo, C. (2016). Extreme value Birnbaum-Saunders regression models applied to environmental data. *SERRA: Stochastic Environmental Research and Risk Assessment* **30**(3),1045-1058.  
<http://dx.doi.org/10.1007/s00477-015-1069-6>

Luís, R. & **Mendonça, S.** (2016). A note on the bifurcation point of a randomized Fibonacci model. *Chaotic Modeling and Simulations (CMSIM)* **4**, 445-458.  
[http://www.cmsim.eu/papers\\_pdf/october\\_2016\\_papers/4.Luis\\_Mentonca\\_445-458.pdf](http://www.cmsim.eu/papers_pdf/october_2016_papers/4.Luis_Mentonca_445-458.pdf)

Mendes, A., **Papoila, A.L.**, Carreiro-Martins, P., Bonassi, S., Caires, I., Palmeiro, T., Aguiar, L., Pereira, C., Neves, P., Mendes, D., Botelho, M.A., Neuparth, N. & Teixeira, J.P. (2016). The impact of indoor air quality and contaminants on respiratory health of older people living in long-term care residences in Porto. *Age and Ageing* **45**(1), 136-142.  
DOI:10.1093/ageing/afv157

Marques-Vieira, C.M.A., Sousa, L.M.M., Severino, S., **Sousa, L.** & Caldeira, S. (2016). Cross-cultural validation of the falls efficacy scale international in elderly: Systematic literature review. *Journal of Clinical Gerontology and Geriatrics*. **7**(3),72-76.  
[http://www.e-jcgg.com/article/S2210-8335\(16\)00003-4/pdf](http://www.e-jcgg.com/article/S2210-8335(16)00003-4/pdf)

Marques-Vieira, C.M.A., Sousa, L.M.M., **Sousa, L.**, & Caldeira, S. (2016). The nursing diagnosis 'Impaired Walking' in elderly: systematic literature review. *Revista Texto & Contexto Enfermagem* **25**(3).  
[http://www.scielo.br/scielo.php?script=sci\\_arttext&pid=S0104-07072016000300321](http://www.scielo.br/scielo.php?script=sci_arttext&pid=S0104-07072016000300321)



**Marques, T.A.** (2016). A comment on Horcajada-Sánchez and Barja: a cautionary tale about left truncation and density gradients in distance sampling. *Annales Zoologici Fennici* **53**:52–54.

<http://www.bioone.org/doi/abs/10.5735/086.053.0204>

Martins, R., **Silva, G.L.** & **Andreozzi, V.** (2016). Bayesian joint modeling of longitudinal and spatial survival AIDS data. *Statistics in Medicine*, **35**, 3368-3384.

<http://onlinelibrary.wiley.com/doi/10.1002/sim.6937/abstract>

**Oliveira, A., Oliveira, T.A.** & Seijas-Macias, A. (2016). Skewness into the product of two normally distributed variables and the risk consequences. *REVSTAT, Statistical Journal, Special Issue on Risk Analysis: Challenges and Applications* **14**:2, 119-138.

<https://www.ine.pt/revstat/pdf/rs160202.pdf>

Paíga, P., Santos, L.H., **Ramos, S.**, Jorge, S., Silva, J.G., Delerue-Matos, C. (2016). Presence of pharmaceuticals in the Lis river (Portugal): Sources, fate and seasonal variation. *Science of The Total Environment*, **573**, 164–177.

<https://www.ncbi.nlm.nih.gov/pubmed/27560998>

**Penalva, H.**, Nunes, S. & **Neves, M.M.** (2016). Extreme value analysis - A brief overview with an application to flow discharge rate data in a hydrometric station in the north of Portugal. *REVSTAT, Statistical Journal, Special Issue on Risk Analysis: Challenges and Applications* **14**:2, 193-215.

<https://www.ine.pt/revstat/pdf/rs160206.pdf>

Ravenhall, M., Benavente, E.D., Mipando, M., Jensen, A.T., Sutherland, C.J., Roper, C., **Sepúlveda, N.**, Kwiatkowski, D.P., Montgomery, J., Phiri, K.S., Terlouw, A., Craig, A., Campino, S., Ocholla, H. & Clark, T.G. (2016). Characterizing the impact of sustained sulfadoxine/pyrimethamine use upon the Plasmodium falciparum population in Malawi. *Malar J.* **15**(1):575.

<https://malariajournal.biomedcentral.com/articles/10.1186/s12936-016-1634-6>

Rede, D., Santos, L., **Ramos, S.**, Teles, L.O., Antão, C., Sousa, S. & Delerue-Matos, C. (2016). Ecotoxicological impact of two soil remediation treatments in Lactuca sativa seeds. *Chemosphere*, **159**, pp. 193–198.

[DOI:10.1016/j.chemosphere.2016.06.002](https://doi.org/10.1016/j.chemosphere.2016.06.002)

Rivadeneira, F.J., Figueiredo, A.M., **Figueiredo, F.**, Carvajal, S.M. & Rivadeneira, R.A. (2016). Analysis of well-being in OECD countries through STATIS methodology. *Holos* **7**, 335-350.

[DOI:10.15628/holos.2016.5003](https://doi.org/10.15628/holos.2016.5003)

**Rocha, J.L.** (2016). Stability analysis of Gompertz's logistic growth equation under strong, weak and no Allee effects. *WSEAS Transactions on Mathematics*, **15**, 578-587.

<http://www.wseas.org/multimedia/journals/mathematics/2016/b085806-084.pdf>

**Rocha, J.L.**, Taha, A-K. & Fournier-Prunaret, D. (2016). Dynamical analysis and Big Bang bifurcations of 1D and 2D Gompertz's growth functions. *International Journal of Bifurcation & Chaos*, **26**(11), 1630030 (22).

<http://www.worldscientific.com/doi/pdf/10.1142/S0218127416300305>

**Rocha, J.L.**, Taha, A-K. & Fournier-Prunaret, D. (2016). Big Bang bifurcation analysis and Allee effect in generic growth functions. *International Journal of Bifurcation & Chaos*, **26**(6), 1650108 (20).

<http://www.worldscientific.com/doi/pdf/10.1142/S021812741650108X>

**Rocha, J.L.**, Taha, A-K. & Fournier-Prunaret, D. (2016). Von Bertalanffy's dynamics under a polynomial correction: Allee effects and Big Bang bifurcation. *Journal of Physics: Conference Series*, **692**, 012007 (10).

<http://iopscience.iop.org/article/10.1088/1742-6596/692/1/012007>

**Rocha, J.L.**, Taha, A-K. & Fournier-Prunaret, D. (2016). Big Bang bifurcation in von Bertalanffy's dynamics with strong and weak Allee effects. *Nonlinear Dynamics*, **84**(2), 607-626.

<http://link.springer.com/article/10.1007/s11071-015-2510-6>

**Santos, R.**, **Felgueiras, M.** & **Martins, J.P.** (2016). Pseudo-convex mixtures generated by shape-extended stable distributions for extremes. *Journal of Statistical Theory and Practice*. 357-374.

[DOI:10.1080/15598608.2016.1146929](https://doi.org/10.1080/15598608.2016.1146929)

**Sepúlveda, N.**, Morais, C.G., Mourão, L.C., Freire, M.F., Fontes, C.J., Lacerda, M.V., Drakeley, C.J. & Braga, É.M. (2016). Allele-specific antibodies to Plasmodium vivax merozoite surface protein-1: prevalence and inverse relationship to haemoglobin levels during infection. *Malar J.* **15**(1):559.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5112628/>

Soto, K., Campos, P., Pinto, I., Rodrigues, B., Frade, F., **Papoila, A.L.** & Devarajan, P. (2016). The risk of chronic kidney disease and mortality are increased after community-acquired acute kidney injury. *Kidney International* **90**(5), 1090-1099.

[DOI:10.1016/j.kint.2016.07.018](https://doi.org/10.1016/j.kint.2016.07.018)

Sousa, P.M., Barriopedro, D., Trigo, R.M., Ramos, A.M., Nieto, R., Gimeno, L., **Turkman, F.** & Liberato, M.L.R. (2016). Impact of Euro-Atlantic blocking patterns in Iberia precipitation using a novel high resolution dataset. *Clim Dyn.* **46**: 2573.

[DOI:10.1007/s00382-015-2718-7](https://doi.org/10.1007/s00382-015-2718-7)

Torres, M.O. & **Neves, M.M.** (2016). A preliminary spatial-temporal study of some soil characteristics in the calcareous massif of Sicó, Portugal. *Geospatial Health*, **11**:342, 70-74.

<http://dx.doi.org/10.4081/gh.2016.342>

Ullah, K., Khan, N.H., **Sepúlveda, N.**, Munir & A., Wahid, S. (2016). Assessing incidence patterns and risk factors for cutaneous leishmaniasis in Peshawar region, Khyber Pakhtunkhwa, *Pakistan. J Parasitol.* **102**(5):501-506.

[DOI:10.1645/0022-3395-102.6.664](https://doi.org/10.1645/0022-3395-102.6.664)

Valente, A.M., **Marques, T.A.**, Fonseca, C. & Torres, R.T. (2016). A new insight for monitoring ungulates: Density Surface Modelling of roe deer in a Mediterranean habitat. *European Journal of Wildlife Research*. **62**: 577–587

[DOI:10.1007/s10344-016-1030-0](https://doi.org/10.1007/s10344-016-1030-0)

Vandewalle, B., **Andreozzi, V.**, Almeida, J. & Félix, J. (2016). Pharmacoeconomics of ruxolitinib therapy in patients with myelofibrosis. *Journal of Medical Economics*. 2016 Apr; **19**(4):424-31.

[DOI:10.3111/13696998.2015.1133430](https://doi.org/10.3111/13696998.2015.1133430).

Wahid, S., Stresman, G.H., Kamal, S.S., **Sepúlveda, N.**, Kleinschmidt, I., Bousema, T. & Drakeley, C. (2016). Heterogeneous malaria transmission in long-term Afghan refugee populations: a cross-sectional study in five refugee camps in northern Pakistan. *Malar J.* **15**:245.

[DOI:10.1186/s12936-016-1305-7](https://doi.org/10.1186/s12936-016-1305-7)

**PUBLICATIONS INTERNATIONAL  
(IN PRESS, accepted up to the end of 2016)**

**(18)**

Almendra, R., Santana, P., Vasconcelos, J., **Silva, G.L.**, Gonçalves, F. & Ambrizzi, T. (2016+). The influence of the winter North Atlantic Oscillation index on hospital admissions through diseases of the circulatory system in Lisbon, Portugal. *International Journal of Biometeorology*.

[DOI:10.1007/s00484-016-1214-z](https://doi.org/10.1007/s00484-016-1214-z)

Batuca, J.R., Amaral, M.C., Favas, C., Paula, F.S., Ames, P.R., **Papoila, A.L.** & Delgado Alves, J. (2016+). Extended Release-Niacin increases anti-ApoA-I antibodies that block the anti-oxidant effect of HDL-C: the EXPLORE clinical trial. *British Journal of Clinical Pharmacology* [Epub ahead of print].

[DOI:10.1111/bcp.13198](https://doi.org/10.1111/bcp.13198)

Borchers, D.L. & **Marques, T.A.** (2016+). From distance sampling to spatial capture-recapture. *Advances in Statistical Analysis*.

[DOI:10.1007/s10182-016-0287-7](https://doi.org/10.1007/s10182-016-0287-7)

**Cabral, M.S.** & **Gonçalves, M.H.** (2016+). On fitting generalized linear mixed effects models for longitudinal binary data using different correlation Structures (accepted for publication in *REVSTAT—Statistical Journal*).

Carteiro, D., Caldeira, S., **Sousa, L.**, Costa, D. & Mendes, C. (2016+). Clinical validation of the nursing diagnosis of sexual dysfunction in pregnant women. *International Journal of Nursing Knowledge*, published online, 5th April 2016.

<http://onlinelibrary.wiley.com/doi/10.1111/2047-3095.12139/full>

Curveira-Santos, G., **Marques, T.A.**, Björklund, M. & Santos-Reis M. (2016+). Mediterranean mesocarnivores in spatially structured managed landscapes: community organisation in time and space. *Agriculture, Ecosystems and Environment*. **237**: 280-289

[DOI:10.1016/j.agee.2016.12.037](https://doi.org/10.1016/j.agee.2016.12.037)

**Figueiredo, F., Gomes, M.I.** & Henriques-Rodrigues, L. (2016+). Value-at-risk estimation and the PORT mean-of-order-p methodology. *Revstat—Statistical Journal* (Accepted June, 2016, for the special volume of 2017).

**Fraga Alves, M.I., Neves, C.** & Rosário, P. (2016+). A general estimator for the right endpoint with an application to supercentenarian women's records. *Extremes*, 1-39. First online: 22 June 2016. IF: 1.33.  
<http://link.springer.com/article/10.1007/s10687-016-0260-6>

Fragata, I., Canhão, P., Alves, M., **Papoila, A.L.** & Canto-Moreira, N. (2016+). Evolution of diffusion tensor imaging parameters after acute subarachnoid haemorrhage: a prospective cohort study. *Neuroradiology* [Epub ahead of print].  
[DOI:10.1007/s00234-016-1774-y](https://doi.org/10.1007/s00234-016-1774-y)

**Martins, J.P., Felgueiras, M. & Santos, R.** (2016+). Estimation through array based group tests, *REVSTAT - Statistical Journal*. Accepted.  
[https://www.ine.pt/revstat/pdf/Estimation throughArrayBased group tests.pdf](https://www.ine.pt/revstat/pdf/Estimation%20throughArrayBased%20group%20tests.pdf)

Martins, D.S., Paredes, P., Razinei, T., Pires, C., **Cadima, J.** & Pereira, L.S. (2016+). Assessing reference evapotranspiration estimation from reanalysis weather products. An application to the Iberian Peninsula. *International Journal of Climatology* (accepted for publication). [DOI:10.1002/joc.4852](https://doi.org/10.1002/joc.4852).

**Oliveira, A., Oliveira, T.A.** & Seijas-Macias, A. (2016+). The uniform distribution product: an approach to the (Q,r) inventory model using R. *Journal of Applied Statistics* (accepted, December 2016).  
<http://www.tandfonline.com/doi/abs/10.1080/02664763.2016.1275531>

Pavlovic, S., **Pereira, C.P. & Santos, R.** (2016+). Age estimation in Portuguese population: the application of the London atlas of tooth development, *Forensic Science International* (accessible online after January 17, 2017).  
[DOI:10.1016/j.forsciint.2017.01.011](https://doi.org/10.1016/j.forsciint.2017.01.011)

**Pereira, S., Turkman, K.F.** & Correia, L. (2016+) Spatio-temporal analysis of regional unemployment rates: A comparison of model based approaches. *Revstat: Statistical Journal* (accepted).

Pinto, A.E., Pereira, T., **Silva, G.L.** & André, S. (2016+). Relevance of DNA flow cytometry in the prognosis of breast cancer revisited: the 25-year experience at Portuguese Institute of Oncology of Lisbon. *Oncology Letters* (in Press).

Rego, I., Russo, G., **Gonçalves, L.**, Prelman, J. & Barros, P.P. (2016+). Economic crisis and Portuguese National Health Service Physicians: findings from descriptive study of their perceptions and reactions from health care units in the Greater Lisbon area (in press, *Acta Médica*).

Santos, A.I., Violante, L., Carmona, S., Prata, A., Victor, M.R., Santos, J.G., Sequeira, J.A., Alves, M., **Papoila, A.L.** & Piepsz, A. (2016+). Interobserver agreement on cortical tracer transit in 99mTc-MAG3 renography applied to congenital hydronephrosis. *Nuclear Medicine Communications* [Epub ahead of print].  
[DOI:10.1097/MNM.0000000000000620](https://doi.org/10.1097/MNM.0000000000000620)

Vacquié-Garcia, J., Lydersen, C., **Marques, T.A.**, Aars, J. H. Ahonen, M. SkernMauritzen, N. Øien & K. M. Kovacs (2016+). Late summer distribution and abundance of ice-associated whales in the Norwegian High Arctic. *Endangered Species Research*.  
[DOI:10.3354/esr00791](https://doi.org/10.3354/esr00791)

## JOURNAL (EDITOR) INTERNATIONAL

(7)

**Gomes, M.I.** (Editor-in-Chief) & **Amaral Turkman, M.A.** (Co-Editor) *REVSTAT—Statistical Journal* (<https://www.ine.pt/revstat/eboard.html>); **Fraga Alves, M.I.**, **Paulino, C.D.**, **Pestana, D.** & **Turkman, K.F.**: Associated editors from CEAUL.

**Gomes, M.I.**: Member of the Reviewers Board, "*Selected Papers in Statistics*" and of the Editorial Board, "*Springer Book Series*", Springer.

**Gomes, M.I.** & **de Haan, L.**: Associate Editors of "*Extremes*".

**Gomes, M.I.** & **Pestana, D.**: Associate Editors of "*CMSIM: Chaotic Modeling and Simulation*".

**Gomes, M.I.** & **Turkman, K.F.**: Associate Editors of "*JSTP: Journal of Statistical Theory and Practice*".

Kitsos, C., **Oliveira, T.A.** & Stehlík, M. (2016). Guest Editors. *REVSTAT, Statistical Journal*, Special issue on "*Risk Analysis: Challenges and Applications*", Volume 14, Nº2, April 2016. ISSN 1645-6726.  
<https://www.ine.pt/revstat/tables.html>

**Silva, G.**: Associate editor of the *Brazilian Journal of Probability and Statistics*  
<http://www.imstat.org/bjps/>

## PROCEEDINGS INTERNATIONAL

(9)

**Brilhante, M.F.**, **Gomes, M.I.** & **Pestana, D.** (2016). Modelos extremais em dinâmica de populações. In M.J. Villamayor, S.P. Díaz & M.I. Santiago Pérez (eds.), *Proceedings II Encontro Galaico-Portugués de Biometría*, 346-349.  
[http://biometria.sgapeio.es/descargas/Libro Actas BIOAPP2016.pdf](http://biometria.sgapeio.es/descargas/Libro_Actas_BIOAPP2016.pdf)

Cabral, I., Caeiro, F. & **Gomes, M.I.** (2016)\*. Reduced-bias Hill estimators. *International Conference of Computational Methods in Sciences and Engineering 2016 (ICCMSE 2016)*. *AIP Conference Proceedings* **1790**, 080006-1–080006-4; doi: 10.1063/1.4968687  
<http://scitation.aip.org/content/aip/proceeding/aipcp/10.1063/1.4968687>

Carvalho, V., **Polidoro, M.J.** & Magalhães, J.P. (2016)\*. OwlSight: Platform for Realtime Detection and Visualization of Cyber Threats. In Proc. of the 2nd IEEE International Conference on Big Data Security on Cloud, pp. 61-66, New York, USA.

<http://ieeexplore.ieee.org/document/7502265/>

Dziedzic, K., Bierma-Zeinstra, S., Vliet Vlieland, T., Roos, E.M., Skou, S.T., Hagen, K.H., Osteras, N., Pais, S., **Cordeiro, C.**, Duffy, H. & Hughes, R. (2016)\*. Joint implementation of guidelines for osteoarthritis in Western Europe: JIGSAW-E. The 4th *European Congress of the ER-WCPT*, Volume 102, Supplement 1, Pages e138–e139.

<https://doi.org/10.1016/j.physio.2016.10.158>

**Gomes, M.I.**, **Penalva, H.**, Caeiro, F. & **Neves, M.M.** (2016). Non-reduced versus reduced-bias estimators of the extreme value index—efficiency and robustness. In A. Colubi, A. Blanco & C. Gatu (eds.) *COMPSTAT 2016—22<sup>nd</sup> International Conference on Computational Statistics*, The International Statistical Institute/International Association for Statistical Computing, 279-290.

[http://www.compstat2016.org/docs/COMPSTAT2016\\_proceedings.pdf?20160807205859](http://www.compstat2016.org/docs/COMPSTAT2016_proceedings.pdf?20160807205859)

Grilo, L.M., Silva, D.S., Nogueira, I.M., Grilo, H.L. & **Oliveira, T.A.** (2016)\*. Individual Control Charts in Paperboard Industry. *12<sup>th</sup> International Conference of Computational Methods in Sciences and Engineering (ICCMSE 2016)*, AIP Conf. Proc. 1790, 140009;

<http://dx.doi.org/10.1063/1.4968738>.

Icely, I., **Cordeiro, C.**, Cristina, S., Lavender, S., Goela, P. & Newton, A. (2016)\*. Temporal variability in MERIS water constituents modelled by STL decomposition in SW Iberian Peninsula: Sagres. *Proceedings of LIVING PLANET SYMPOSIUM 2016*.

[http://www.spacebooks-online.com/product\\_info.php?cPath=104&products\\_id=17659](http://www.spacebooks-online.com/product_info.php?cPath=104&products_id=17659)

Jorge, P.A., Shaffer, J.W., **Marques, T.A.**, Mouriño, H., Thomas, & Moretti, D.J. (2016)\*. *Estimating Blainville's Beaked Whales Abundance Cover Time: Improving Dive Counting Methods*. In M.J. Villamayor, S.P. Díaz & M.I. Santiago Pérez (eds.), *Proceedings II Encontro Galaico-Português de Biometria*, 109-111.

[http://biometria.sgapeio.es/descargas/Libro\\_Actas\\_BIOAPP2016.pdf](http://biometria.sgapeio.es/descargas/Libro_Actas_BIOAPP2016.pdf)

Prata Gomes, D., **Gouveia-Reis, D.** & **Neves, M.M.** (2016)\*. “*Modelação espacial aplicada a dados de precipitação extrema na Ilha da Madeira*”. In M.J. Villamayor, S.P. Díaz & M.I. Santiago Pérez (eds.), *Proceedings II Encontro Galaico-Português de Biometria*, 257-260. [http://biometria.sgapeio.es/descargas/Libro\\_Actas\\_BIOAPP2016.pdf](http://biometria.sgapeio.es/descargas/Libro_Actas_BIOAPP2016.pdf)

## BOOKS NATIONAL

### CHAPTER OF BOOKS NATIONAL

#### (1)

**Pestana, D.** & **Brilhante, M.F.** (2016). *Ciência Sem Estatística?* In Pombo, O. & R. Santos (eds.), *Afinal o que é a Ciência*, Ciência Viva, CFCUL, ISBN: 978-989-8247-70-4, pp.33-64.

## BOOKS (EDITOR) NATIONAL

(1)

**Cordeiro, C., Ribeiro, C.,** Silva, M.E, Sousa, C., **Gonçalves, M.H.** & Antunes, N. (2016)<sup>#</sup>. “Estatística: Progressos e Aplicações”, Livro de Atas do XXII Congresso da Sociedade Portuguesa de Estatística, Edições SPE, ISBN: 978-972-8890-38-4, Depósito Legal: 417937/16. Online version: ISBN: 978-972-8890-39-1, Depósito Legal: 417937/16.  
<http://www.spestatistica.pt/index.php/232-atas-do-xxii-congresso-da-spe-2015>

## PUBLICATIONS NATIONAL

(5)

Barata, P., Santos, F., Mesquita, G., Cardoso, A., Custódio, M.P., Alves, M., **Papoila, A.L.**, Barbosa, A. & Lawlor, P. (2016). Associação da intensidade da dor no tempo até à morte dos doentes oncológicos referenciados aos Cuidados Paliativos. *Acta Médica Portuguesa* **29**(11), 694-701.  
[DOI:10.20344/amp.7557](https://doi.org/10.20344/amp.7557)

Carteiro, D., **Sousa, L.** & Caldeira, S. (2016). Indicadores clínicos de disfunção sexual em mulheres grávidas: revisão integrativa de literatura. *Revista Brasileira de Enfermagem (REBEn)*, **69**(1): 153-161.  
[http://www.scielo.br/pdf/reben/v69n1/en\\_0034-7167-reben-69-01-0165.pdf](http://www.scielo.br/pdf/reben/v69n1/en_0034-7167-reben-69-01-0165.pdf)

Ramalhinho, I., **Cordeiro, C.** & Cabrita, J. (2016). Adesão à terapêutica antibiótica no Algarve. *Revista Portuguesa de Farmacoterapia*.  
<http://revista.farmacoterapia.pt/index.php/rpf/article/view/114/93>

Rodrigues, F., **Papoila, A.L.**, Ligeiro, D., Gomes, M.J.M. & Trindade, H. (2016). Acute exercise amplifies inflammation in obese patients with COPD. *Revista Portuguesa de Pneumologia* **22**(6), 315-322.  
[DOI:10.1016/j.rppnen.2016.05.005](https://doi.org/10.1016/j.rppnen.2016.05.005)

Rodrigues, F., Grafino, M., Faria, I., Pontes da Mata, J., **Papoila, A.L.** & Félix, F. (2016). Surgical risk evaluation of lung cancer in COPD patients—A cohort observational study. *Revista Portuguesa de Pneumologia* **22**(5), 266-272.  
[DOI:10.1016/j.rppnen.2016.02.010](https://doi.org/10.1016/j.rppnen.2016.02.010)

## PROCEEDINGS NATIONAL

(12)

Abreu, A.M. & **Gouveia-Reis, D.** (2016). Análise de Sobrevivência e Valores Extremos em R. In C. Cordeiro C., C. Ribeiro, C. Sousa, M.H. Gonçalves, N. Antunes & M.E. Silva (eds.), *Estatística: Progressos e Aplicações*, Atas do XXII Congresso da Sociedade Portuguesa de Estatística, UAlg and SPE editions, 1-14.  
[http://www.spestatistica.pt/images/spe/LivroAtas\\_XXII.pdf](http://www.spestatistica.pt/images/spe/LivroAtas_XXII.pdf)

<sup>#</sup> Listed as a book in the point 4 of the report.



Cabral, I., Caeiro, F. & **Gomes, M.I.** (2016). Redução do viés do estimador de Hill: uma nova abordagem. In C. Cordeiro C., C. Ribeiro, C. Sousa, M.H. Gonçalves, N. Antunes & M.E. Silva (eds.), *Estatística: Progressos e Aplicações*, Atas do XXII Congresso da Sociedade Portuguesa de Estatística, UAlg and SPE editions, 73-84.

[http://www.spestatistica.pt/images/spe/LivroAtas\\_XXII.pdf](http://www.spestatistica.pt/images/spe/LivroAtas_XXII.pdf)

Ferreira, S. & **Santos, R.** (2016). O papel das estruturas geométricas na Estatística. In C. Cordeiro C., C. Ribeiro, C. Sousa, M.H. Gonçalves, N. Antunes & M.E. Silva (eds.), *Estatística: Progressos e Aplicações*, Atas do XXII Congresso da Sociedade Portuguesa de Estatística, UAlg and SPE editions, 111-122.

[http://www.spestatistica.pt/images/spe/LivroAtas\\_XXII.pdf](http://www.spestatistica.pt/images/spe/LivroAtas_XXII.pdf)

Figueiredo, A. & **Figueiredo, F.** (2016). Aplicação do coeficiente RV em Controlo Estatístico da Qualidade. In C. Cordeiro C., C. Ribeiro, C. Sousa, M.H. Gonçalves, N. Antunes & M.E. Silva (eds.), *Estatística: Progressos e Aplicações*, Atas do XXII Congresso da Sociedade Portuguesa de Estatística, UAlg and SPE editions, 123-135.

[http://www.spestatistica.pt/images/spe/LivroAtas\\_XXII.pdf](http://www.spestatistica.pt/images/spe/LivroAtas_XXII.pdf)

**Figueiredo, F.**, Figueiredo, A. & **Gomes, M.I.** (2016). Distribuição de Pareto inflacionada em Controlo Estatístico da Qualidade. In C. Cordeiro C., C. Ribeiro, C. Sousa, M.H. Gonçalves, N. Antunes & M.E. Silva (eds.), *Estatística: Progressos e Aplicações*, Atas do XXII Congresso da Sociedade Portuguesa de Estatística, UAlg and SPE editions, 137-150.

[http://www.spestatistica.pt/images/spe/LivroAtas\\_XXII.pdf](http://www.spestatistica.pt/images/spe/LivroAtas_XXII.pdf)

**Gonçalves, L.** (2016). Dados, ética e investigação em saúde tropical: constrangimentos e desafios. In "Estatística: progressos e aplicações" (Cordeiro, C., Ribeiro, C., Sousa, C., Gonçalves, M.H., Antunes, N., Silva, M.E., eds). Edições SPE, Lisbon, p. 165-173.

[http://www.spestatistica.pt/images/spe/LivroAtas\\_XXII.pdf](http://www.spestatistica.pt/images/spe/LivroAtas_XXII.pdf)

**Polidoro, M.J.** & Magalhães, F. (2016). "Uma aplicação da distribuição *a priori* árvore de Pólya no estudo da adequabilidade do modelo exponencial". In "Estatística: progressos e aplicações" (Cordeiro, C., Ribeiro, C., Sousa, C., Gonçalves, M.H., Antunes, N., Silva, M.E., eds). Edições SPE, Lisbon, p. 175-185.

[http://www.spestatistica.pt/images/spe/LivroAtas\\_XXII.pdf](http://www.spestatistica.pt/images/spe/LivroAtas_XXII.pdf)

**Polidoro, M.J.**, Magalhães, F. & **Amaral Turkman, M.A.** (2016). "Abordagem bayesiana não paramétrica para o estudo da adequação de modelos". Boletim da Sociedade Portuguesa de Matemática. Número Especial Maio 2016. Actas do Encontro Nacional da SPM, julho 2014. Probabilidades e Estatística, Pag.117-120

**Santos, R.**, **Felgueiras, M.** & **Martins, J.P.** (2016). Estimação em misturas pseudo-convexas. In C. Cordeiro C., C. Ribeiro, C. Sousa, M.H. Gonçalves, N. Antunes & M.E. Silva (eds.), *Estatística: Progressos e Aplicações*, Atas do XXII Congresso da Sociedade Portuguesa de Estatística, UAlg and SPE editions, 211-222.

[http://www.spestatistica.pt/images/spe/LivroAtas\\_XXII.pdf](http://www.spestatistica.pt/images/spe/LivroAtas_XXII.pdf)



**Semblano, P., Brilhante, M.F., Pestana, D.** & Sequeira, F. (2016). Pseudo-valores-p e meta análise. In C. Cordeiro C., C. Ribeiro, C. Sousa, M.H. Gonçalves, N. Antunes & M.E. Silva (eds.), *Estatística: Progressos e Aplicações*, Atas do XXII Congresso da Sociedade Portuguesa de Estatística, UAlg and SPE editions, 235-246.

[http://www.spestatistica.pt/images/spe/LivroAtas\\_XXII.pdf](http://www.spestatistica.pt/images/spe/LivroAtas_XXII.pdf)

**Sepúlveda, N.** & Drakeley, C.D. (2016). A few notes on using prevalence of infection in a malaria elimination setting. In “Estatística: progressos e aplicações” (Cordeiro, C., Ribeiro, C., Sousa, C., Gonçalves, M.H., Antunes, N., Silva, M.E., eds). SPE, Lisbon, p. 247-258.

[http://www.spestatistica.pt/images/spe/LivroAtas\\_XXII.pdf](http://www.spestatistica.pt/images/spe/LivroAtas_XXII.pdf)

Sousa, R., **Santos, R., Felgueiras, M. & Martins, J.P.** (2016). Metodologias de classificação baseadas em testes compostos: um estudo comparativo via simulação. In C. Cordeiro C., C. Ribeiro, C. Sousa, M.H. Gonçalves, N. Antunes & M.E. Silva (eds.), *Estatística: Progressos e Aplicações*, Atas do XXII Congresso da Sociedade Portuguesa de Estatística, UAlg and SPE editions, 271-282.

[http://www.spestatistica.pt/images/spe/LivroAtas\\_XXII.pdf](http://www.spestatistica.pt/images/spe/LivroAtas_XXII.pdf)

## SEMINARS BY INVITATION

(23)

**Aleixo, S.** (2016). “*An Extension of Gompertzian Growth Dynamics: Weibull and Fréchet Models*”, Faculdade Ciências Universidade de Lisboa, Bloco C/6, Piso 4, July 13, 2016.

**Aleixo, S.** (2016). “*An Extension of Gompertzian Growth Dynamics: Weibull and Fréchet Models*”, Faculty of Mathematics and Physics of the University of Ljubljana, May 26, 2016.

**Amaral Turkman, M.A.** (2016). “*Anthropogenic Influences on Spatial and Temporal Variation in Fire Activity*”. CEAUL seminar, September 28, 2016.

**Antunes, M.** (2016). “*Detection of Infectious Disease Outbreak by an Optimal Bayesian Alarm System*”, Departamento de Matemática, Universidade de Aveiro, September 28, 2016.

**Antunes, M.** (2016). “*A Non-homogeneous Markov Spatial Temporal Model for Dengue Epidemics*”, CEAUL – Seminário no âmbito do Mestrado em Bioestatística, November 12, 2016.

**de Haan, L.** (2016). “*On the P.O.T. Method in Extreme Value Theory*”. Seminar at IST Lisbon (P), November 8, 2016.

**Ferreira, A.** (2016). “*The Block Maxima and POT methods and, an extension of POT to integrated stochastic processes*”, Probability and Statistics Seminar, DM-IST, May 25, 2016.

**Gomes, M.I.** (2016). *“Generalized Means and PORT VaR-estimation”*, The Hague University of Applied Sciences, The Hague, The Netherlands, October 26, 2016.

**Gomes, M.I.** (2016). *“Gestão e Controlo Estatístico da Qualidade em Indústria e Serviços”*, Instituto de Investigação Científica Bento da Rocha Cabral, Ciclo de Conferências Ferreira de Mira, December 19, 2016.

**Gonçalves, L.** (2016). *“Planeamento e Recolha de Dados em Contextos Africanos”*. Universidade de Aveiro, January 27, 2016. <http://www.ua.pt/dmat/page/18635>

**Paulino, C.D.** (2016). *“Dosimetria Citogenética: uma Abordagem Paramétrica Integralmente Bayesiana”*, November 30, 2016, CEAUL/FCUL.

**Pereira, C.P.** (2016). *“Medicina Dentária Forense”*. Seminário convidado no Curso de Pós-Graduação em Medicina Legal e Ciências Forenses da Universidade do Algarve, September, 2016.

**Pereira, C.P.** (2016). *“Medicina Dentária Forense”*. Seminário convidado no Curso de Pós-Graduação Estudos Forenses da Faculdade de Ciências Sociais e Políticas, UL, November, 2016.

**Pereira, S.** (2016). *“Unemployment Estimation—a Spatial Point Process Approach”*, Seminar at CEAUL, November 9, 2016.

**Pestana, D.** (2016). *“Apresentação Crítica da Obra de José Rocha”*, Universidade dos Açores, May, 2016.

**Pestana, D.** (2016). *“Uma Viagem pelo Mundo da Meta Análise”* (joint work with **M.F. Brilhante**), Bento da Rocha Cabral, Ciclo de Conferência Mira Fernandes, May, 2016.

**Pestana, D.** (2016). *“Passagem da Rita Vasconcelos”*. Universidade da Madeira, Workshop em Honra de Rita Vasconcelos, June, 2016.

**Pestana, D.** (2016). *“An Introduction to Meta Analysis and its Use in Life Sciences”* (joint work with **M.F. Brilhante**), ISAMB | Instituto de Saúde Ambiental” (joint work with M.F. Brilhante), Faculdade de Medicina da Universidade de Lisboa, November 2, 2016.

**Pestana, D.** (2016). *“Sem Razões para Ensinar Estatística (e Uma para Ensinar Ortografia)”*, Escola Secundária de Cascais, December, 2016.

**Santos, R.** (2016). *“Análises Clínicas e Probabilidade Condicionada”*, Escola Secundária Francisco Rodrigues Lobo, Leiria.

**Santos, R.** (2016). *“Estatística Aplicada à Enfermagem”*, Escola Superior de Enfermagem de Vila Real, Universidade de Trás-os-Montes e Alto Douro.

**Sepúlveda, N.** (2016). *“Concepts about Population and Sampling”*. 8/12/2016, Universidade de Cabo Verde, Cidade da Praia, Cabo Verde.

**Turkman, K.F.** (2016). *“Statistics for Wildfires: A Decade of Collaboration with José Pereira”*. CEAUL seminar, April 6, 2016.

## **PARTICIPATION in CONFERENCES**

### **Plenary talks**

**(5)**

**Amaral Turkman, M.A.** (2016). *“Religion, Fire and Statistics: Meeting Point”*. JOCLAD 2016, Évora, Portugal, March 31-April 2, 2016.

**Antunes, M.** (2016). *“Pattern Recognition in Medical Research”*. World Congress of the International Society for Biophysics and Imaging of the Skin, Lisbon, Portugal, May 31-June 3, 2016.

**Gomes, M.I.** (2016). *“Estatística de Extremos e Possível Previsão de Terramotos”* (joint work with **D. Pestana**). Sessão: À Conversa sobre o Terramoto de 1755, Academia das Ciências de Lisboa, November 2, Lisbon, Portugal.

**Marques, T.A.** (2016). *“Estimating Cetacean Abundance from Stationary Passive Acoustic Monitoring Devices”* (joint work with Oedekoven, Harris, Thomas). Listening for Aquatic Mammals in Latin America, Natal, Brazil.

**Sousa, L.** (2016). *“Bioestatística na FCUL: de Curso de Especialização ... a Rede de Bioestatísticos”*. Plenary session at 1.º Encontro da Rede de Bioestatísticos Portugueses e da Secção de Biometria da SPE, June 9, Lisbon, Portugal.

### **Invited talks**

**(41)**

Alves, D., Santos, Z., Amado, M., Craveiro, I., Delgado A., Correia, A. & **Gonçalves, L.** (2016). *“O Excesso de Peso e a Adequação da Ingestão Alimentar às Recomendações de Residentes de Áreas Urbanas da Cidade da Praia, Cabo Verde”*. 2.º Congresso Nacional de Nutrição e 2.º Encontro de Nutricionistas 9-11 de novembro de 2016, Nampula, Mozambique.

**Antunes, Marília & Patrícia de Zea Bermudez** (invited speaker) (2016). *“Modelação da Abundância de Culex pipiens em Portugal”*. Workshop em Modelação e Previsão Ambiental em Saúde, September 21-22, Instituto de Higiene e Medicina Tropical, Lisbon, Portugal.

**Antunes, M.** (2016). *“A Non-homogeneous Markov Spatial Temporal Model for Dengue Occurrence”*. Workshop em Modelação e Previsão Ambiental em Saúde, IHMT, Portugal September 21-22, 2016, Lisbon, Portugal.

Caeiro, F. (2016). *“Improving the Asymptotically Unbiased Extreme Value Index Estimation”* (joint work with I. Cabral & **M.I. Gomes**), 10th Workshop on Statistics, Mathematics and Computation and 5th Portuguese-Polish Workshop on Biometry, Tomar, Portugal, May 26-28, 2016.

**Cordeiro, C.** (invited speaker), Cristina, S., Goela, P., Danchenko, S., Icely, I., Lavender, S. & Newton, A. (2016). *“Time Series in Remote Sensing Data”*. Presentation at the Thematic Session of Applications of Statistics in Biological Sciences, in XXIII Jornadas de Classificação e Análise de Dados (JOCLAD 2016), held from March 31-April 2, 2016, Évora, Portugal.

**de Haan, L.** (2016). *“Monitoring a Changing Tail Index”*. International Society for Nonparametric Statistics Conference. Avignon, France, 11-16 June, 2016.

**de Haan, L.** (2016). *“On Peaks-over threshold and Block Maxima Methods in Extreme Value Theory”*. Workshop “Extreme values” Lorentz center university of Leiden (NL), September 12, 2016.

**de Haan, L.** (2016). *“On the P.O.T. Method in Extreme Value Theory”*. Workshop “Extreme values” university of Tilburg (NL), December 7, 2016

**Ferreira, A.** (2016). *“Comparisons on Block Maxima and POT methods; PWM Estimators”*, Workshop on Uncertainty and Causality Assessment in Modeling Extreme and Rare Events, National Center of Atmospheric Research (NCAR) Boulder, Colorado, April 25-28, 2016.

**Figueiredo, F.** (2016). *“Acceptance Sampling Plans for Sensory and Chromatography Analyses”* (joint work with A.M. Figueiredo & **M.I. Gomes**). 10th Workshop on Statistics, Mathematics and Computation and 5th Portuguese-Polish Workshop on Biometry, Tomar, Portugal, May 26-28, 2016.

Francisco, C. (2016). *“Qr Codes Structures: Algorithms, Connections and Applications”* (joint work with **T.A. Oliveira**). Invited talk at *International Symposium on Business and Industrial Statistics* (ISBIS 2016), June 8-10, Universitat Politècnica de Catalunya, Barcelona, Spain.

Henning, E. (2016). *“Application of Factorial Designs with Computer Simulation in the Process of Motors Calibration”* (joint work with Freitas Zappelino, B. **Oliveira, T.A.**, Carvalho, O.M. & Walter, F.). Invited talk at *International Symposium on Business and Industrial Statistics* (ISBIS 2016), June 8-10, Universitat Politècnica de Catalunya, Barcelona, Spain.

**Gomes, M.I.** (2016). *“Non-reduced Versus Reduced-bias Estimators of the Extreme Value Index: Efficiency and Robustness”* (joint work with **H. Penalva**, F. Caeiro & **M.M. Neves**). Invited talk at CMStatistics session on “Advances on computational statistics and data analysis”, organized by Erricos Kontoghiorghes at the 22nd *International Conference on Computational Statistics* (COMPSTAT 2016), August 23-26, Oviedo, Spain.

**Gomes, M.I.** (2016). *“Inflated Pareto Processes in Statistical Process Control”* (joint work with **F. Figueiredo** & A.M. Figueiredo). Invited talk at International Symposium on Business and Industrial Statistics (ISBIS 2016), June 8-10, Universitat Politècnica de Catalunya, Barcelona, Spain.

**Gonçalves, L.** (2016). *“O Papel da Estatística nas Ciências da Saúde: Reflexões sobre a Situação Actual e Novos Desafios”*, na mesa redonda sobre: “El papel de la Estadística en las CC. de la Salud, la Ecología y el Medioambiente: Reflexiones sobre la situación actual y nuevos retos”, II Galician-Portuguese Meeting of Biometry with applications to the Health Sciences, Ecology and Environmental Sciences, Santiago de Compostela, Spain, June 30-July 2, 2016.

<http://biometria.sgapeio.es/>.

**Gonçalves, L.**, Amado, M., Alves, D., Santos, Z., Delgado A., Correia, A., Craveiro I. (2016). *“Cidade da Praia: o Planeamento Urbano e alguns Aspetos da Segurança Alimentar”*. 2º Congresso Nacional de Nutrição e 2º Encontro de Nutricionistas, November 6-9, 2016, Nampula, Mozambique.

Inácio, M.J. (2016). *“The Effect of using an Incorrect Model on the Performance of Risk-adjusted Control Charts”* (joint work with P. Infante & **F. Figueiredo**). 10th Workshop on Statistics, Mathematics and Computation, 26-28 May 2016, Tomar, Portugal.

**Neves, C.** (2016). *“Extreme Value Statistics for Non-stationary Outcomes”*. One-day meeting on Statistics in Weather and Climate, 21st March 2016, University of Reading, UK.

**Neves, C.** (2016). *“On Tail Trend Estimation and Testing with Application to Extreme Rainfall”*. 9<sup>th</sup> International conference of the ERCIM WG 2016, 9-11 December, Seville, Spain.

**Neves, M.M.** (2016). *“Extreme Precipitation Data in the North of Portugal: A Spatial Analysis Application”* (joint work with D. Prata Gomes & E. Moreira). 9th International Conference of the ERCIM WG on Computational and Methodological Statistics, Seville. 9-11 Dec. 2016, in the session *Rare and extreme events in climatology*, organized by Ivette Gomes.

**Oliveira, A.** (2016). *“The role of np-Charts for Attribute Control based on Life Distributions”*. Co-author: **Teresa A. Oliveira**. International Workshop on Engineering Statistics, East China Normal University, Shanghai, China, December 18, 2016.

**Oliveira, A.** (2016). *“Np-charts for Attribute Control”* (joint work with V. Leiva). Invited talk at *International Symposium on Business and Industrial Statistics (ISBIS 2016)*, June 8-10, Universitat Politècnica de Catalunya, Barcelona, Spain.

**Oliveira, A. & Oliveira, T.A.** (2016). *“p-Charts and np-Charts for Attribute Control based on Life Distributions”*. III Workshop on Computational Data Analysis and Numerical Methods, Portalegre, Portugal, 2016. <http://iiiwcdanm2016.yolasite.com/>

**Oliveira, T.A.** (2016). "*p-Charts for Attribute Control considering life distributions and Using R*". Co-author **Amílcar Oliveira**. Invited Lecture at the International Workshop on Engineering Statistics, East China Normal University, Shanghai, China, December 18, 2016.

**Oliveira, T.A.** (2016). "*Experimental Design in Health Sciences*". Co-authors **A. Oliveira**; Joana A. Oliveira; Guilherme A. Oliveira; Lecture presented at the Invited Session: Advances in Applied Statistical Methods, organized and chaired by Professor Mei-Ling Ting Lee. The 10th ICSA International Conference on Global Growth of Modern Statistics in the 21st Century, Shanghai Jiao Tong University, Shanghai, China, December 19-22, 2016.

**Oliveira, T.A.** (2016). "*Topics on Problem-Based Learning in e-Learning*". Co-authors: **A. Oliveira**, Nunes, S. III Workshop on Computational Data Analysis and Numerical Methods, Portalegre - Portugal, 2016.  
<http://iiwcdanm2016.yolasite.com/>

**Oliveira, T.A.** (2016). "*Problem-based Learning – a brief review*". Co-authors: Sandra Nunes & **Amílcar Oliveira**. ICNAAM 2016, 19-25 September 2016, Rodos Palace Hotel, Rhodes, Greece.  
[http://history.icnaam.org/icnaam\\_2016/index.html](http://history.icnaam.org/icnaam_2016/index.html)

**Oliveira, T.A.** (2016). "*Item Response Theory - a first approach*". Co-authors: Sandra Nunes & **Amílcar Oliveira**. ICNAAM 2016, 19-25 September 2016, Rodos Palace Hotel, Rhodes, Greece.  
[http://history.icnaam.org/icnaam\\_2016/index.html](http://history.icnaam.org/icnaam_2016/index.html)

**Oliveira, T.A.** (2016). "*Mathematical Modeling: Fire Blow-Up*". Co-authors: Carla Francisco and Steve Cumming. ICNAAM 2016, 19-25 September 2016, Rodos Palace Hotel, Rhodes, Greece.  
[http://history.icnaam.org/icnaam\\_2016/index.html](http://history.icnaam.org/icnaam_2016/index.html)

**Oliveira, T.A.** (2016). "*Multivariate Control Chart: Exploring Hotelling's  $T^2$  test*". Co-authors: Amitava Mukherjee & **Amílcar Oliveira**. ICNAAM 2016, 19-25 September 2016, Rodos Palace Hotel, Rhodes, Greece.  
[http://history.icnaam.org/icnaam\\_2016/index.html](http://history.icnaam.org/icnaam_2016/index.html)

**Oliveira, T.A.** (2016). "*Confidence Intervals for Variance Components in Gauge Capability Studies*". Co-authors: Dário Ferreira, Sandra Ferreira, Célia Nunes & J.T. Mexia. ICNAAM 2016, 19-25 September 2016, Rodos Palace Hotel, Rhodes, Greece.  
[http://history.icnaam.org/icnaam\\_2016/index.html](http://history.icnaam.org/icnaam_2016/index.html)

**Oliveira, T.A.** (2016). "*P-charts for Attribute Control*" (joint work with V. Leiva). Invited talk at *International Symposium on Business and Industrial Statistics (ISBIS 2016)*, June 8-10, Universitat Politècnica de Catalunya, Barcelona, Spain.  
<http://www2.stat.duke.edu/~banks/barcelona/index.html>

**Oliveira, T.A.** (2016). “*Pattern Recognition and QR Codes*”, Co-authors: Carla Francisco & **Amílcar Oliveira**. E-MATH 2016, 5-6 May, UNED-Madrid, Spain.

<https://sites.google.com/site/8emath2016madrid/home>

**Papoila, A.L.** (2016). “*Cancro Colo Retal e do Estômago: Estudo Espaço-temporal*”. Workshop de Epidemiologia do Cancro. Reitoria da Universidade NOVA de Lisboa, Campus de Campolide, Portugal, 8 de Janeiro de 2016.

**Pereira, C.P.** (2016). “*European Network for Age Estimation*”, IALM (International Academy of Legal Medicine) 2016 Intersocietal Symposium, Italy.

**Prata Gomes, D.** (2016). “*Revisiting the choice of block size for resampling in the extremal index estimation*” (joint work with **M.M. Neves**). *The 5th Portuguese-Polish Workshop on Biometry (PPWB5) and the 10th Workshop on Statistics, Mathematics and Computation (WSMC10)*, 26-28 May, 2016, Tomar, Portugal, in the session *Statistical Distributions and Applications*.

**Santos, R.** (invited speaker) **Felgueiras, M.** & **Martins, J.P.** (2016). “*Random Polygonal Lines Iteratively Generate on the Plane*”, 10th Workshop on Statistics, Mathematics and Computation, 5th Portuguese-Polish Workshop on Biometry, Organized Session on Statistical Distributions and Applications, Polytechnic Institute of Tomar, Portugal.

**São João, R.** (2016). “*Epidemiologia dos Cancros Colorectal e do Estômago no Sul de Portugal: um Contributo da Modelação Estatística em Dados Oncológicos*”. 4.º WORKSHOP da Universidade Nova de Lisboa/Direção Geral de Saúde de EPIDEMIOLOGIA: CANCRO (II), 21 outubro 2016 na Escola Nacional de Saúde Pública, Lisbon, Portugal.

[https://www.ensp.unl.pt/ensp/noticias-2/Programa%20-%20Resumos\\_WorkshopNOVA.DGSEpidemiologia.Cancroll.pdf](https://www.ensp.unl.pt/ensp/noticias-2/Programa%20-%20Resumos_WorkshopNOVA.DGSEpidemiologia.Cancroll.pdf)

**Sepúlveda, N.** (2016). “*In the Realm of Malaria Genetics*”. Genomic Epidemiology of Infectious Diseases. March 2016, Bangkok, Thailand.

**Sepúlveda, N.** (2016). “*Serology and Mathematical Modelling as Joint Tools to inform the Epidemiology of Infectious Diseases on the Cusp of Elimination*”. Mathematical modelling workshop: Current and Future Perspectives of micro- and macro modelling of infectious diseases: from system biology to control and dynamics. January 2016, Riga, Latvia.

**Turkman, K. F.** (2016). “*Adjusting for Bias in Extremes of Continuous Time Processes observed at Discrete Times*”. Workshop on New Developments in Econometrics and Time Series. Universidade Carlos III de Madrid, Spain, October 6-7, 2016.



## CONTRIBUTED TALKS and POSTERS in 2016

### International

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**Aleixo, S.** (2016)\*. "A Relationship between Synchronization and Allee Effect in von Bertalanffy's Models" (joint work with A. Caneco). ICMA-MU 2016, International Conference in Mathematics and Applications, Bangkok, Thailand, 2016, December, 18.

Alves Daniela, Lurdes Guerra, Blanca Polo, Sara Valle, Manuel Neves, Helena Martins, Inês Conde, João Lacerda, J. Alves do Carmo, Sónia Matos, Daniel Viriato, **Marília, A.** (2016). "Cross-sectional Analysis of Portuguese Patients Diagnosed with Primary Myelofibrosis". 7th International Conference on Myeloproliferative Neoplasms. October 27 - October 29, 2016 - Estoril, Portugal.

<http://www.esh.org/conference/7th-international-conference-on-myeloproliferative-neoplasms/>

Alves dos Reis, T., **Papoila, A.L.** & Gusmão, R. (2016). "Changes in Prescribing Patterns of Benzodiazepines after Training of General Practitioners". 24th European Congress of Psychiatry, Madrid –Spain, 12-15 March 2016. (Poster presented by Alves dos Reis, T.)

Asif, M., Conceição, I.C., Kwiatkowska. K., Rasga. C., **Sousa, L.**, Oliveira, G., Couto, F. & Vicente, A.M. (2016). "Increased Frequency of the Autism Broader Phenotype in Mothers Transmitting Etiological CNVs to Sons Affected by Autism Spectrum Disorder (ASD)". The European Human Genetics Conference 2016, May 21-24, Barcelona, Spain. (Speaker: Vicente. A.M.)

**Amaral Turkman, M. A.** & **Turkman, K. F.** (2016)\*. "Anthropogenic Influences on Spatial and Temporal Variation in Fire Activity". 26th Annual Conference of The International Environmetrics Society, Jul 18-22, 2016. Edinburgh Conference Centre, Heriot-Watt University, Riccarton, Edinburgh, Scotland.

<http://www.ed.ac.uk/files/atoms/files/abstracts.pdf>

**Antunes Marília, Antónia Turkman, Feridun Turkman**, Stephanie Jansen-Kosterink, Javier Solana, Enrique Gómez, Amelia Rauter, Miriam Vollenbroek (2016)\*. "Screening and Validation in PERSSILAA – the Personalized ICT Service for Independent Living and Active Ageing". 23 NKG 2016, 19-22 Junho 2016. (Poster, financed by PERSSILAA project.) <http://23nkg.fi/>

**Brilhante, M.F.** (2016)\*. "Random Growth Rate and Carrying Capacity in Verhulst Population Dynamics" (joint work with **Pestana, D.** & Rocha, M.L.). 9th International Conference of the ERCIM WG on Computational and Methodological Statistics (CFE-CMSTATISTICS 2016), Sevilla, December 9-11, 2016.

Caneco, A. (2016). "Chaotic Synchronization of von Bertalanffy's Systems" (joint work with **Aleixo S.** & **Rocha, L.**). ICMA-MU 2016, International Conference in Mathematics and Applications, Bangkok, Thailand, 2016, December, 18.



**Canto e Castro, L.** (2016)\*. *“Predicting the Number of Students in the Portuguese Education System after Extending to Twelve Years the Compulsory Education”* (joint work with P. Martins). International Symposium on Forecasting (ISF), Santander, Spain, June 19-22, 2016.

Cartaxo, L., **Santos, R.**, & **Pereira, C.P.** (2016)\*. *“Application of Cheiloscopy for Medical-legal Identification in a Portuguese Population”*, Poster presented at IALM (International Academy of Legal Medicine) 2016 Intersocietal Symposium, Italy.

Carteiro, D., Caldeira, S. & **Sousa, L.** (2016). *“Sexuality and Pregnancy: Pregnant Perspective”*. 5th European Midwives Association Conference, December 2-3, London, UK. (Speaker – Carteiro, D.)

**de Zea Bermudez, P.**, **Antunes, M.**, Proença, M.C., Rebelo, M.T., Osório, H. & Alves, M.J. (2016)\*. *“Spatial Modelling of the Abundance of Culex pipiens in Portugal - A Bayesian Approach”*, II Galician-Portuguese Meeting of Biometry with applications to the Health Sciences, Ecology and Environmental Sciences, Santiago de Compostela, Spain, June 30-July 2, 2016, p. 364-365. (Poster presented by de Zea Bermudez, P.)  
[http://biometria.sgapeio.es/descargas/Libro\\_Actas\\_BIOAPP2016.pdf](http://biometria.sgapeio.es/descargas/Libro_Actas_BIOAPP2016.pdf)

**Felgueiras, M.** (2016)\*. *“A Preliminary Test for Variance Equality in a Two Components Gaussian Mixture”* (joint work **Santos, R.**, **Martins, J.P.**). 13th Applied Statistics 2016 International Conference, Ribno (Bled), Slovenia.

Fernandes, J., **Antunes, M.**, **Amaral Turkman, M.A.**, **Turkman F.**, Jansen-Kosterink, S., Solana J., Gomez, E., O’Caoimh, R., Rauter A., Vollenbroek, M. (2016)\*. *“Screening Steps in PERSSILAA the Personalized ICT Service for Independent Living and Active Ageing: a Comparative Study”*. II Galician-Portuguese Meeting of Biometry with applications to the Health Sciences, Ecology and Environmental Sciences, Santiago de Compostela, Spain, 30th June to 2nd July, 2016 (poster, financed by PERSSILAA project). p. 350.  
[http://biometria.sgapeio.es/descargas/Libro\\_Actas\\_BIOAPP2016.pdf](http://biometria.sgapeio.es/descargas/Libro_Actas_BIOAPP2016.pdf)

Ferraz Patrícia, Marta Gomes, Marisol Guerra, Ana Carvalho, Margarida Inácio, Manuel Cunha, Daniel Viriato, **Marília, A.** (2016). *“Clinical and Therapeutic Characterization of a Portuguese Sample of Patients with Myelofibrosis”*. 7th International Conference on Myeloproliferative Neoplasms. October 27 - October 29, 2016 - Estoril, Portugal.

**Ferreira, A.** (2016)\*. *“Maximum Likelihood Estimators under Block Maxima”* (joint work with C. Dombry). 9th International Conference of the ERCIM WG on Computational and Methodological Statistics (CFE-CMSTATISTICS 2016), Sevilla, Spain, December 9-11, 2016.

**Figueiredo, F.**, Figueiredo, A. & **Gomes, M.I.** (2016)\*. *“Acceptance Sampling Plans for Sensory and Chromatography Analysis”*. In Oliveira et al. (eds.), *Book of Abstracts of 10th Workshop on Statistics, Mathematics and Computation and 5th Portuguese-Polish Workshop on Biometry*, 102-103. Instituto Politécnico de Tomar, Portugal.

**Fraga Alves, M.I.** (2016)\*. "Tailoring Heavy Tails for a Truncated Scenari". Concluding International "RARE"Conference: Risk Analysis, Ruin theory & Extremes. La Baule, France, July 3-8, 2016.

Francisco, C. (2016). "Hadamard Matrices on Error Detection and Correction: Useful links to BIBD" (joint work with **Oliveira, T.A.** & **Oliveira, A.**). The 25th International Workshop on Matrices and Statistics (IWMS'2016), Funchal, Madeira Island, Portugal 2016.

[http://www.iwms.ipt.pt/?page=sientific\\_programme](http://www.iwms.ipt.pt/?page=sientific_programme).

Francisco, C. & **Oliveira, T.A.** (2016)\*. "Qr Codes structures: Algorithms, connections and applications". In Oliveira, T.A., Oliveira, A., Mahmoudvand, R., Ravishankar, N. & Banks, D., *ISBIS 2016: Abstracts*, Univ. Aberta de Lisboa. pp. 27-28.

[https://repositorioaberto.uab.pt/bitstream/10400.2/5732/1/last\\_ISBIS\\_FINAL-FF-UAb.pdf](https://repositorioaberto.uab.pt/bitstream/10400.2/5732/1/last_ISBIS_FINAL-FF-UAb.pdf)

Freitas Zappelino, B. Henning, E., **Oliveira, T.A.**, Carvalho, O.M. & Walter, F. (2016)\*. "Application of Factorial Designs with Computer Simulation in the Process of Motors Calibration". In Oliveira, T.A., Oliveira, A., Mahmoudvand, R., Ravishankar, N. & Banks, D., *ISBIS 2016: Abstracts*, Univ. Aberta de Lisboa. pp. 29-30.

[https://repositorioaberto.uab.pt/bitstream/10400.2/5732/1/last\\_ISBIS\\_FINAL-FF-UAb.pdf](https://repositorioaberto.uab.pt/bitstream/10400.2/5732/1/last_ISBIS_FINAL-FF-UAb.pdf)

**Gomes, M.I.** (2016)\*. "Control Charts for Monitoring the Parameters of a Logistic Distribution" (joint work with **Figueiredo, F.** & A. Mukherjee). 9th International Conference of the ERCIM WG on Computational and Methodological Statistics (CFE-CMSTATISTICS 2016), Sevilla, Spain, December 9-11, 2016.

**Gomes, M.I., Figueiredo, F.** & Figueiredo, A. (2016)\*. "Inflated Pareto Processes in Statistical Quality Control". In Oliveira, T.A., Oliveira, A., Mahmoudvand, R., Ravishankar, N. & Banks, D., *ISBIS 2016: Abstracts*, Univ. Aberta de Lisboa. pp. 24-25.

[https://repositorioaberto.uab.pt/bitstream/10400.2/5732/1/last\\_ISBIS\\_FINAL-FF-UAb.pdf](https://repositorioaberto.uab.pt/bitstream/10400.2/5732/1/last_ISBIS_FINAL-FF-UAb.pdf)

Gonzalez, R.P., **Marques, T.A.** & Thomas, L. (2016). "Animal Movement on Point Transect Sampling Abundance Estimates". International Statistical Ecology Conference, Seattle, USA.

Henning, E. (2016). "Application of Factorial Designs with Computer Simulation in the Process of Motors Calibration" (joint work with Bruna de Freitas Zappelino, **T.A. Oliveira**, Olga Maria Carvalho Formigoni Walter). *ISBIS2016*, Barcelona, Spain, 2016.

<http://www2.stat.duke.edu/~banks/barcelona/index.html>.

Icely, I., **Cordeiro, C.**, Cristina, S., Lavender, S., Goela, P. & Newton, A. (2016). "Temporal Variability in MERIS Water Constituents Modelled by STL Decomposition in SW Iberian Peninsula: Sagres". Poster presented at the European Space Agency Living Planet Symposium 2016. Praga, Czech Republic, 9 -13 May 2016.

Icely, I., Fragoso, B., Goela, P., Cristina, S., **Cordeiro, C.**, Danchenko, S. & Newton, A. (2016). "Ocean Colour Contribution to the Management of Offshore Aquaculture at Sagres, SW Portugal in an ERA of Climate Change". Poster presented at the Colour and Light in the Ocean from Earth Observation (CLEO) Workshop, ESA-ESRIN, Frascati, Rome, Italy, 6-8 September 2016.

Inácio, M.J., Infante, P. & **Figueiredo, F.** (2016). “*The Effect of using an Incorrect Model on the Performance of Risk-adjusted Control Charts*”. In Oliveira et al. (eds.), *Book of Abstracts of 10th Workshop on Statistics, Mathematics and Computation and 5th Portuguese-Polish Workshop on Biometry*, 104-105. Instituto Politécnico de Tomar, Portugal.

Jorge, P.A., Shaffer, J.W., **Marques, T.A.**, Mouriño, H., Thomas, & Moretti, D.J. (2016). “*Estimating Blainville’s Beaked Whales Abundance Cover Time: Improving Dive Counting Methods*”, II Galician-Portuguese Meeting of Biometry with applications to the Health Sciences, Ecology and Environmental Sciences, Santiago de Compostela, Spain, June30 – July 2, 2016.

Luz, F.V., **Santos, R.** & **Pereira, C.P.** (2016)\*. “*Application of Cheiloscopy for Medical-legal Identification: Sexual Dimorphism in a Portuguese Population*”, Poster presented at IALM (International Academy of Legal Medicine), 2016 Intersocietal Symposium, Italy.

**Martins, J.P.** (speaker), **Santos, R.** & **Felgueiras, M.** (2016)\*. “*Enzyme Immunoassays Tests for Screening C. Difficile: A Meta-analysis Study*”, 13th Applied Statistics 2016 International Conference, Ribno (Bled), Slovenia.

Moretti, D., **Marques, T.A.**, Thomas, L., Watwood, S., DiMarzio, N., Dolan, K., Morrissey, R., Shaffer, J., Monteiro, J.F. & Jarvis, S. (2016). “*Marine Mammal Passive Acoustics applied to the Monitoring of Long-term Trends in Beaked Whale Abundance and to the Derivation of a Behavioral Risk Function for Exposure to Mid-frequency Active Sonar*”. 172th Meeting of the Acoustical Society of America, Hawaii, US.

Nunes, S. (2016). *An Introduction to Item Response Theory*. III Workshop on Computational Data Analysis and Numerical Methods, Portalegre, Portugal, 2016. Co-authors: **Oliveira, T.A.** & **Oliveira, A.**  
<http://iiiwcданm2016.yolasite.com/>

**Oliveira, A.** (2016)\*. (work presented by **Teresa A. Oliveira**). “*p-Charts for Attribute Control considering life distributions and Using R*”. International Workshop on Engineering Statistics, East China Normal University, Shanghai, China, December 18, 2016.

**Oliveira, A.** (2016)\*. “*Risk Estimation of Failing a Course using e-learning Data*” (joint work with **Teresa A. Oliveira**). E-MATH 2016, UNED-Madrid, Spain, May 5-6, 2016.  
<https://sites.google.com/site/8emath2016madrid/home>.

**Oliveira, T.A.** (2016)\*. “*Problem-based Learning – a Brief Review*” (joint work with **A. Oliveira** & Sandra Nunes). ICNAAM 2016, Rhodes, Greece, September 19-25, 2016.  
[http://history.icnaam.org/icnaam\\_2016/index.html](http://history.icnaam.org/icnaam_2016/index.html)

**Oliveira, T.A.** (2016)\*. “*Item Response Theory - a First Approach*” (joint work with **A. Oliveira** & Sandra Nunes). ICNAAM 2016, Rhodes, Greece, September 19-25, 2016.  
[http://history.icnaam.org/icnaam\\_2016/index.html](http://history.icnaam.org/icnaam_2016/index.html)

**Oliveira, T.A.** (2016)\*. “Multivariate Control Chart: Exploring Hotelling’s  $T^2$  test” (joint work with **A. Oliveira** & Amitava Mukherjee). ICNAAM 2016, Rhodes, Greece, September 19-25, 2016.

[http://history.icnaam.org/icnaam\\_2016/index.html](http://history.icnaam.org/icnaam_2016/index.html)

**Oliveira, T.A.** (2016)\*. “Features of QR Codes in E-Learning, Mathematics and Statistics” (joint work with A. **Oliveira**). E-MATH 2016, 5-6 May, UNED-Madrid, Spain, May 5-6, 2016.

<https://sites.google.com/site/8emath2016madrid/home>

**Oliveira, A.** & Leiva, V. (2016)\*. “Np-charts for Attribute Control”. In Oliveira, T.A., Oliveira, A., Mahmoudvand, R., Ravishankar, N. & Banks, D., *ISBIS 2016: Abstracts*, Univ. Aberta de Lisboa. pp. 26-27.

[https://repositorioaberto.uab.pt/bitstream/10400.2/5732/1/last\\_ISBIS\\_FINAL-FF-UAb.pdf](https://repositorioaberto.uab.pt/bitstream/10400.2/5732/1/last_ISBIS_FINAL-FF-UAb.pdf)

**Oliveira, T.A.** & Leiva, V. (2016)\*. “P-charts for Attribute Control”. In Oliveira, T.A., Oliveira, A., Mahmoudvand, R., Ravishankar, N. & Banks, D., *ISBIS 2016: Abstracts*, Univ. Aberta de Lisboa. pp. 25-26.

[https://repositorioaberto.uab.pt/bitstream/10400.2/5732/1/last\\_ISBIS\\_FINAL-FF-UAb.pdf](https://repositorioaberto.uab.pt/bitstream/10400.2/5732/1/last_ISBIS_FINAL-FF-UAb.pdf)

Pereira, J.A. (2016). “Monte Carlo Methods Applied in Health Research” (joint work with Luzia Mendes, Antonio Costa, & **Teresa A. Oliveira**). 4th Stochastic Modeling Techniques and Data Analysis International Conference and Demographics Workshop. University of Malta, Valletta, Malta, June 1-4, 2016.

<http://www.smta.net/>

**Pereira, P., Amaral Turkman, M.A., Turkman, K.F., Pereira, J.M.C** & Oom, D. (2016)\*. “Modelling Fire Density Observed per Week Day in each County of USA”. 26th annual conference of the international environmetrics society (TIES2016), Edimburgh, Scotland, 18-22 July (poster).

<http://www.ed.ac.uk/files/atoms/files/abstracts.pdf>

**Pereira, P. & Ribeiro, C.**, (speaker) (2016)\*. “Modelação Espaço-Temporal de Dados de Crimes em Portugal”. BIOAPP2016, II Galician-Portuguese Meeting of Biometry with applications to the Health Sciences, Ecology and Environmental Sciences, Santiago de Compostela, Spain, 30th June to 2nd July, 2016, p. 175-176.

[http://biometria.sgapeio.es/descargas/Libro\\_Actas\\_BIOAPP2016.pdf](http://biometria.sgapeio.es/descargas/Libro_Actas_BIOAPP2016.pdf)

**Pereira, P. & Ribeiro, C.**, (speaker) (2016)\*. “Spatio-Temporal Modelling of Criminal Data in Portugal”. LGM2016, Fifth Workshop on Bayesian Inference for Latent Gaussian Models with Applications, Bath, UK, September 14-16, 2016.

**Pereira S., Turkman K.F., Correia L.** (2016)\*. “Unemployment Estimation - Spatio-temporal Point Process Approach”, Small Area Estimation Conference 2016, Maastricht, Netherlands, August 17-19, 2016 (Poster), p 60-61.

<https://drive.google.com/file/d/0B7mqp78bQOUwRUVEQWtoRTNoS0l2M3hTUTFKdWg2eERoUFNR/view>

**Pestana, D.** (2016)\*. “Modelos Extremais em Dinâmica de Populações” (joint work with **Brilhante, M.F., Gomes, M.I.**). Poster presented at II Galician-Portuguese Meeting of Biometry with applications to the Health Sciences, Ecology and Environmental Sciences, Santiago de Compostela, Spain, June 30-July 2, 2016.

**Pestana, D.** (2016)\*. *“Partially Reduced-Bias Value-at-risk Estimators”* (joint work with **M.I. Gomes**, F. Caeiro, **F. Figueiredo** & L. Henriques-Rodrigues). CFE-CMSTATISTICS 2016, Sevilla, Spain, December 9-11, 2016.

Prata Gomes, D. (presenter), **Gouveia-Reis, D.** & **Neves, M.M.** (2016). *“Modelação Espacial Aplicada a Dados de Precipitação Extrema na Ilha da Madeira”*. Poster presented at II Galician-Portuguese Meeting of Biometry with applications to the Health Sciences, Ecology and Environmental Sciences, Santiago de Compostela, Spain, 30th June to 2nd July, 2016.

Proença, R., Vicente, A., Santos, B.O., Cunha, J.P., Alves, M., **Papoila, A.L.**, Abegão Pinto, L. & Tavares Ferreira, J. (2016). *“Choroidal Thickness in Diabetic Patients without Diabetic Retinopathy”*. XIX Congress of the European Association for Vision and Eye Research (EVER), Nice, France, 5 - 8 October 2016. Presented by Proença, R.

**Ramos Sandra** (speaker), **Antónia Amaral Turkman** & **Marília Antunes** (2016)\*. *“O Problema de Triagem Bayesiano do Ponto de Vista Médico”*. BIOAPP2016, II Galician-Portuguese Meeting of Biometry with applications to the Health Sciences, Ecology and Environmental Sciences, Santiago de Compostela, Spain, 30th June to 2nd July, 2016, p. 153-154. [http://biometria.sgapeio.es/descargas/Libro\\_Actas\\_BIOAPP2016.pdf](http://biometria.sgapeio.es/descargas/Libro_Actas_BIOAPP2016.pdf)

Ribeiro, H., Ferreira, L. & **Santos, R.** (2016)\*. *“Percorrendo a Fila: uma Abordagem Descritiva para o Ensino Secundário”*, *Atas da Conferência Internacional de Investigação, Práticas e Contextos em Educação*, 8-9 May, 2016, Escola Superior de Educação e Ciências Sociais, Leiria, Portugal, p. 464. ISBN 978-989-8797-08-7. (poster) <http://sites.ipleiria.pt/ipce2016/en/livro-de-atas-2016/>

**Rocha, J.L.** (2016)\*. *“Stability Analysis of Gompertz's Logistic Growth Equation Under Strong, Weak and No Allee Effects”*. 21th International Conference on Applied Mathematics, AMATH'16, Berna, Swizerland, December 17-19, 2016.

**Santos, R.** (2016)\*. *“A Visão do Cálculo de Probabilidades de José de Sousa Pinto”*, 2º Encontro Ibérico de História da Matemática, Coimbra, Portugal.

Seijas-Macias, A. (2016). *“The Uniform Distribution Product as approach to the (Q,r) inventory model using Software R”* (joint work with **Oliveira, A.**). X<sup>th</sup> Workshop on Statistics, Mathematics and Computation and V<sup>th</sup> Portuguese-Polish Workshop on Biometry. IPT, Tomar, Portugal, May 26-28, 2016. <http://conferencesstat.wixsite.com/wsmc10ppwb5>

**Sepúlveda, N.**(2016)\*. *“Current Statistical Approaches to Antibody Data Analysis of Infectious Diseases on the Brink of Elimination”*, BIOAPP2016: II Galician-Portuguese Meeting of Biometry with applications to the Health Sciences, Ecology and Environmental Sciences, Santiago de Compostela, Spain, 30th June to 2nd July, 2016, p. 167-168. [http://biometria.sgapeio.es/descargas/Libro\\_Actas\\_BIOAPP2016.pdf](http://biometria.sgapeio.es/descargas/Libro_Actas_BIOAPP2016.pdf)

**Sepúlveda, N., Paulino, C.D.** & Drakeley, C. (2016)\*. “Sample Size Calculators for Estimating Antimalarial Seroconversion Rate and its Putative Changes over Time”. BIOAPP2016, II Galician-Portuguese Meeting of Biometry with applications to the Health Sciences, Ecology and Environmental Sciences , Santiago de Compostela, Spain, 30th June to 2nd July, 2016. p. 294.

[http://biometria.sgapeio.es/descargas/Libro\\_Actas\\_BIOAPP2016.pdf](http://biometria.sgapeio.es/descargas/Libro_Actas_BIOAPP2016.pdf)

**Silva, G.L.**, Almendra, R., Santana, P., Vasconcelos, J., Gonçalves, F. & Ambrizzi, T. (2016)\*. “The influence of the Winter North Atlantic Oscillation Index on Hospital Admissions through Diseases of the Circulatory System in Lisbon”. II Galician-Portuguese Meeting of Biometry with applications to the Health Sciences, Ecology and Environmental Sciences, Santiago de Compostela, Spain, June 30-July 2, 2016, p. 243-244. [http://biometria.sgapeio.es/descargas/Libro\\_Actas\\_BIOAPP2016.pdf](http://biometria.sgapeio.es/descargas/Libro_Actas_BIOAPP2016.pdf)

**Silva, C.**, Carvalho, S. & **Sousa, L.** (2016)\*. “Spirometry Reference Equations for Vila Franca de Xira Population”. BIOAPP2016, II Galician-Portuguese Meeting of Biometry with applications to the Health Sciences, Ecology and Environmental Sciences , Santiago de Compostela, Spain, June 30 - July 2, 2016, p. 181.

[http://biometria.sgapeio.es/descargas/Libro\\_Actas\\_BIOAPP2016.pdf](http://biometria.sgapeio.es/descargas/Libro_Actas_BIOAPP2016.pdf)

Simões, P. (presenter), Natário, I., **Aleixo, S.** & Gomes, S. (2016). "A Spatial Econometric Analysis of the Calls to a National Healthline to Assess Hospital Savings", X World Conference of Spatial Econometrics Association -SEA2016 – Università Cattolica del Sacro Cuore, Rome, June 13-15, 2016.

Soto, K.F., Cunha, L., Pinto, I., **Papoila, A.L.** & Devarajan, P. (2016). “Kidney Disease Progression and Associated Factors in Hiv+ Patients”. Kidney-Week, Chicago – USA, November 14-19, 2016 (poster presented by Karina Soto).

Valcheva, P. (2016). “Latin Squares and Related Structures in Design of experiment: a Statistical Perspective” (joint work with **Teresa A. Oliveira**).. 4th Stochastic Modeling Techniques and Data Analysis International Conference and Demographics Workshop. University of Malta, Valletta, Malta, June 1-4, 2016.

<http://www.smta.net/>

Valente, A.M., **Marques, T.A.**, Fonseca, C. & Torres, R.T. (2016). “Métodos para Estimar el Tamaño Poblacional de Corzo”, IV Simpósio sobre el corzo en la Pensínsula Ibérica, Madrid, Spain.

## National (11)

Alves, D., Santos, Z., Craveiro, I., Amado, M., Delgado A., Correia, A. & **Gonçalves, L.** (2016). “Projeto UPHI-STAT: Hábitos Alimentares em Contexto Urbano – o Caso da Capital de Cabo Verde”. Congresso Internacional Nutrição e Segurança Alimentar (CINSA), 21-23 de outubro de 2016, Tábua, Portugal.



Alves, D., Guerra, L., Polo, B., Conde, I., Neves, M., Martins, H., Lopes, C., Valle, S., Matos, S., Santos, S., Lacerda, J., Martins, C., Lourenço, F., Moreno, R., Viriato, D., **Antunes, M.** & Raposo, R. (2016). "Mielofibrose Primária (MFP): Caracterização Dos Doentes Tratados Num Único Centro". Reunião Anual da Sociedade Portuguesa de Hematologia. 17-19 Novembro. Espinho, Portugal.

Baptista, R., **Silva, C.** & dos Reis, C.S. (2016). "Mamografia com Contraste. Carcaterização das Práticas". XIII Congresso Nacional de Radiologia, Algarve, Portugal.

Carteiro, D., Caldeira, S. & **Sousa, L.** (2016). "Disfunção Sexual em Grávidas no Terceiro Trimestre de Gravidez". V Congresso de Investigação em Enfermagem Iberoamericano e de Países de Língua Oficial Portuguesa, 7-8 de junho, Escola Superior de Enfermagem, Coimbra, Portugal (presented by D. Carteiro).

<https://www.esenfc.pt/event/event/home/index.php?target=home&event=168&defLang=1>

Carteiro, D., Caldeira, S. & **Sousa, L.** (2016). "Propriedades Psicométricas do Female Sexual Function Index em Grávidas". V Congresso de Investigação em Enfermagem Iberoamericano e de Países de Língua Oficial Portuguesa, 7-8 de junho, Escola Superior de Enfermagem, Coimbra, Portugal (presented by D. Carteiro).

<https://www.esenfc.pt/event/event/home/index.php?target=home&event=168&defLang=1>

Inácio, M.J., Infante, P. & **Figueiredo, F.** (2016). "A Importância do Modelo no Desempenho de Cartas de Controlo com Risco Ajustado". Oral communication at XXI JOCLAD, April 1, 2016, Évora, Portugal.

Marques-Vieira, C.M.A., Antunes, N., Sousa, L.M.M., Severino, S., **Sousa, L.** & Caldeira, S. (2016). "Validação Transcultural da Falls Efficacy Scale International em Idosos: Revisão Sistemática de Literatura". II Congresso Internacional de Enfermagem de Reabilitação "A pessoa, função e autonomia: reabilitar nos processos de transição no ciclo de vida", 10-12 de Março, Coimbra, Portugal (Speaker – Antunes, N.)

Pereira da Silva, L., Nóbrega, S., Rosa, M.L., Alves, M., Pita, A., Virella, D., **Papoila, A.L.**, Serelha, M. & Cordeiro-Ferreira, G. (2016). "Parenteral Nutrition-associated Cholestasis and Triglyceridemia in Surgical Term and Near-term Neonates: RCT of two Intravenous Lipid Emulsion Mixtures". Apresentado em XLV Jornadas Nacionais de Neonatologia, Lisboa – Portugal, 17 e 18 de novembro de 2016 (presented by L. Pereira da Silva).

**São João, R.** (2016)\*. "Investigação em Qualidade de Vida, Inovação e Tecnologia" na ESDRM-IPS, a 11 de fevereiro de 2016, subordinado a temática "Cancro colo retal e do estômago: impacto económico, modelação e projecção da incidência".

<http://www.ipsantarem.pt/arquivo/11128>

Tavares Ferreira, J., Alves, M., Proença, R., Dias-Santos, A., Santos, B.O., Cunha, J.P., **Papoila, A.L.** & Abegão Pinto, L. (2016). "Caracterização da Retina e Coróide de Doentes Diabéticos sem Retinopatia Diabética – Estudo de Coorte Prospetivo". 59º Congresso da Sociedade Portuguesa de Oftalmologia, Coimbra, Portugal, December 8-10, 2016 (presented by J. Tavares Ferreira).

Tavares Ferreira, J., Alves, M., Vicente, A., Proença, R., Dias-Santos, A., Costa, L., Santos, B.O., Cunha, J.P., **Papoila, A.L.** & Abegão Pinto, L. (2016). "*Neurodegeneração Retiniana em Doentes Diabéticos sem Retinopatia Diabética*". 59º Congresso da Sociedade Portuguesa de Oftalmologia, Coimbra, Portugal, December 8-10, 2016 (presented by J. Tavares Ferreira).

## MASTER DISSERTATIONS

(23)

**Antunes, M.** (supervisor): Joana Horta Fernandes, Mestrado em Gestão de Informação, DEIO, FCUL, "*Statistical Analysis of the Data from PERSSILAA - Personalized ICT Supported Service for Independent Living and Active Ageing*". October, 2016.

**Antunes, M.** (supervisor): Alberto Miguel Oliveira Santos. Mestrado em Bioestatística. "*Aplicação de Redes Bayesianas na Ciência Forense*". January 7, 2016.

**Cadima, J.** (co-supervisor): Tobias Winkler, Master of Science in Viticulture & Enology (joint diploma EuroMaster Vinifera, awarded by Institut National d'Études Supérieures Agronomiques de Montpellier, France, and Instituto Superior de Agronomia of Lisbon University), "*Empirical Models for Grape vine Leaf Area Estimation on cv. Trincadeira*". Completed: September 30, 2016

**Diamantino, F.** (supervisor) & **Papoila, A.L.** (co-supervisor): Inês Rodrigues Mendonça, Mestrado em Bioestatística, na Faculdade de Ciências da Universidade de Lisboa, "*Estimação da creatinina sérica basal através de modelos GAMLSS*", December, 2016.

Figueiredo, A. & **Figueiredo, F.** (supervisors): Fabricio Javier Rivadeneira Zambrano, "*Analysis of OECD Countries Well-being through Statis Methodology*" — Mestrado em Análise de Dados e Sistemas de Apoio à Decisão (MADSAD) da FEP, Universidade do Porto.

**Fraga Alves, M.I.** (supervisor): Jessica Silva Lomba, "*Extreme Value Analysis of Competitive Freediving Records*" — Dissertação de mestrado de Estatística e Investigação Operacional do DEIO-FCUL, July 2016.

Grenha, A. & **Cordeiro, C.** (supervisors): Jorge Pontes, "*Chitosan/dextran Sulphate Nanoparticles: Stability Evaluation and Assessment of the Effect of Different Acidic Media on Nanoparticle Preparation*", Mestrado integrado em Ciências Farmacêuticas, Faculdade de Ciências e Tecnologia da Universidade do Algarve.

**Mendonça, S.** (supervisor): Duarte Nuno da Silva Sousa, "*A Classe de Distribuições de Panjer e a Modelação do Risco Coletivo*", Mestrado em Matemática, Universidade da Madeira, September 27, 2016.

Mouriño H. (supervisor), **Papoila, A.L.** (co-supervisor): Luís António Garcez Duarte da Costa Ferreira. Mestrado em Bioestatística, na Faculdade de Ciências da Universidade de Lisboa, "*P propensity Scores: An Application in Interventional Cardiology*". November, 2016.



**Oliveira, A.** (supervisor): Adriano Arcanjo Monteiro, “*Análise Conjunta de Regressões Lineares: Revisão e Desenvolvimentos Computacionais em R*”, Mestrado em Estatística, Matemática e Computação – área de especialização em Estatística Computacional, Universidade Aberta.

**Oliveira, T.A.** (supervisor): José António Ferreira Lobo Pereira, “*Modelação do Risco de Perda Dentária por Doença Periodontal*”, Mestrado em Bioestatística e Biometria, Universidade Aberta, March 4, 2016.

**Oliveira, T.A.** (supervisor): Élio José Taero, “*Modelação do Risco de Perda Dentária por Doença Periodontal*”, Mestrado em Estatística, Matemática e Computação, Universidade Aberta, September 30, 2016.

**Oliveira, T.A.** (supervisor): Jorge Manuel Nunes Xavier, “*Análise e Previsão de Séries Temporais com Modelos ARIMA e Análise Espectral Singular*”, Mestrado em Bioestatística e Biometria, Universidade Aberta, November 25, 2016.

**Oliveira, T.A.** (supervisor): Raquel Escribano Tello, “*Árboles de Regresión. Aplicaciones*”, Máster Universitario en Matemáticas Avanzadas de la UNED. Especialidad Estadística e Investigación Operativa, UNED-Facultad de Ciencias Universidad Nacional de Educación a Distancia, October 7, 2016.

**Pereira, C.P. & Santos, R.** (supervisors): Strahinja Pavlovic, Erasmus Mundus Masters in Forensic Science, a cooperation of University of Cordoba (Spain), Instituto de Ciências da Saúde Egas Moniz (Portugal) e University of Lincoln (UK), “*A Contribution for Medico-legal Estimation of Age in Portuguese Population*”.

**Pereira, C.P. & Santos, R.** (supervisors): Ana Catarina Ramalho Anastácio, Mestrado Integrado em Medicina Dentária da Faculdade de Medicina Dentária da Universidade de Lisboa, “*Estimativa Médico-Legal da Idade pela Proporção Polpa/Dente numa População Portuguesa: Validação do Método de Cameriere em Pré-molares Inferiores*”.

**Pereira, C.P. & Santos, R.** (supervisors): Bárbara Oliveira de Menezes, Mestrado Integrado em Medicina Dentária da Faculdade de Medicina Dentária da Universidade de Lisboa, “*Estimativa Médico-Legal da Idade pela Proporção polpa/dente numa População Portuguesa: Validação do Método de Cameriere em Incisivos Centrais Superiores*”.

**Pereira, C.P. & Santos, R.** (supervisors): Cristina Martins Serras, Mestrado Integrado em Medicina Dentária da Faculdade de Medicina Dentária da Universidade de Lisboa, “*Estimativa Médico-Legal da Idade pela Proporção Polpa/Dente numa População Portuguesa: Validação do Método de Cameriere em Pré-Molares Superiores*”.

**Pereira, C.P. & Santos, R.** (supervisors): Mariana Latas Rodrigues, Mestrado Integrado em Medicina Dentária da Faculdade de Medicina Dentária da Universidade de Lisboa, “*Estimativa Médico-Legal da Idade pela Proporção Polpa/Dente numa População Portuguesa: Validação do Método de Cameriere em Caninos Superiores*”.

Ramos, M.R. & **Oliveira, A.** (supervisors): “*Modelos Autorregressivos com Valores Inteiros não Negativos: Aplicação em Séries Económicas de Cabo Verde*”. Mestrado em Estatística, Matemática e Computação – área de especialização em Estatística Computacional, Universidade Aberta.

Pesquita, C. & **Sousa, L.** (supervisors): Ana Cristina Antunes da Silva, “*Análise por Prospecção de Dados de Registos Eletrónicos de Saúde de Pacientes com Cancro do Pulmão*”, Mestrado em Gestão de Informação (Gestão e Análise de Dados), FCUL, march 11, 2016.

**Sousa, L.** & Morais, N. (supervisors): Maria Teresa Proença Mendes Maia, “*Analysis of the Contribution of Alternative Splicing to Glioma Subtype Definition*”, Mestrado em Bioinformática e Biologia Computacional, FCUL, October 18, 2016.

**Sousa, L.** & Figueiredo, L.M. (supervisors): Daniel Pinto de Oliveira Gonçalves Neves, “*Post-transcriptional Circadian Gene Expression Regulation in Trypanosoma brucei*”, Mestrado em Bioinformática e Biologia Computacional, FCUL, October 24, 2016.

## PH.D. THESES

(7)

**Antunes, M.** (supervisor): Cláudio Timm Marques. “*Sistema De Alarme Bayesiano Ótimo Para Dados Epidemiológicos Espaciais*”. Doutoramento em Estatística e Investigação Operacional, Especialidade em Bioestatística e Bioinformática. September 15, 2016

**Brilhante, M.F., D. Pestana** & F. Sequeira (supervisors): **Paulo José Figueira Semblano**, “*Estudo Crítico dos Valores de Prova*”, Doutoramento em Estatística, Faculdade de Ciências da Universidade de Lisboa, November 27, 2016.

**Cadima, Jorge** (co-supervisor) Fernando José do Nascimento Sebastião's PhD Thesis in Mathematics and Statistics, Instituto Superior de Agronomia of Lisbon University. Completed: February 3, 2016. Thesis title: “*Técnicas Multivariadas de Redução de Dados: Comparação, Aplicabilidade e Convergência de Resultados*”.

Caldeira, S. & **Sousa, L.** (supervisors): Dora Maria Honorato Carteiro, “*Validação do Diagnóstico de Enfermagem Disfunção Sexual (00059) em Grávidas*”, IX Doutoramento em Enfermagem, Universidade Católica Portuguesa, October 11, 2016.

**Gomes, M.I.** (member of the monitoring committee): Ricardo Pinto Moura got the degree in 2016, FCT, Universidade Nova de Lisboa. Thesis title: “*Likelihood-Based Inference for Multivariate Regression Models using Synthetic Data*” (co-supervision of Carlos Agra Coelho & Bimal K. Sinha).

**Papoila, A.L.** (co-supervisor): Marco Paulo Dutra Medeiros. "*Estudo de Prevalência, Incidência e Progressão da Retinopatia Diabética e Edema Macular Diabético na Região de Lisboa e Vale do Tejo: Dexametasona no Edema Macular Diabético*" Tese de Doutoramento em Medicina, na especialidade de Investigação Clínica, na Faculdade de Ciências Médicas da Universidade Nova de Lisboa. November, 2016 (supervisor João Filipe Raposo).

**Papoila, A.L.** (co-supervisor): Maria de Fátima Miguel Rodrigues. "*A Doença Pulmonar Obstrutiva Crónica e o Exercício: Impacto da Doença no Declínio Funcional e Importância do Treino de Exercício nos Benefícios para a Saúde*". Tese de Doutoramento em Medicina, na especialidade de Medicina Clínica (Pneumologia), na Faculdade de Ciências Médicas da Universidade Nova de Lisboa, May, 2016 (Supervisor Maria João Marques Gomes).

## PROJECTS RUNNING in 2016

(28)

**Cadima, J.** (team member) OpenSpat, Open Tools for Analysis of Spatial Data in Life Sciences, Projecto Erasmus+ 2015-1-BE01-KA204-013222; Beginning: October 2015; duration: 36 months; Entities: Université de Liège (coord), Supagro-Montpellier, and Instituto Superior de Agronomia.

**Cordeiro, C.** (CEAUL team member) - JIGSAWE, EIT Health- Call 2015- Innovation. Project full title: "*Joint Implementation of Guidelines for oSteoArthritis in Western Europe*" (JIGSAWE) ". JIGSAWE is funded via the West Midlands AHSN by EIT- Health. Portuguese Coordinator: Sandra Pais (UAlg), (11/2015-11/2016).

<http://wmahsn.org/programmes/view/joint-implementation-of-guidelines-for-osteoarthritis-oa-in-western-europe-jigsaw-e>

**Ferreira, A.** (CEAUL team member) — MODEXTREME. Project full title: "*Modelling vegetation response to extreme events*", EU FP7. Portuguese Coordinator at Instituto Superior de Agronomia: Prof. João Paulo de Melo e Abreu, (11/2013-10/2016).

[http://cordis.europa.eu/project/rcn/110453\\_en.html](http://cordis.europa.eu/project/rcn/110453_en.html)

**Gomes, M.I.** (CEAUL member of the Managing Committee) — COST (European Cooperation in Science and Technology) Action IC1408: "*Computationally-intensive methods for the robust analysis of non-standard data*", Coordinator: Erricos Kontoghiorghes, April 2015-Abril 2018.

[http://www.cost.eu/COST\\_Actions/ict/IC1408](http://www.cost.eu/COST_Actions/ict/IC1408)

**Gomes, M.I. & M.M. Neves** — Members of the Committee funded by ANR (Agence Nationale de Recherche) and designed for the preparation of an H2020 Project on "*Rare and Extreme Events in Climatology*", 2014-2017.

**Gonçalves, L.** (team member) - Project HATTool - Projeto HAITool - A Toolkit to Prevent, Manage and Control Healthcare-Associated. EEA Grant.

**Gonçalves, L.** (team member) *Uso de mosquitos geneticamente modificados na prevenção da Dengue e da febre de Chikungunya – factos atuais, literacia e opiniões públicas. Dengue prevention using genetically modified mosquitoes –current facts, literacy and public opinions (PTDC/IVC-ESCT/2486/2014). project funded by FCT. Principal Investigator (PI): Carla Sousa (IHMT-UNL).*

**Marques, T.A.**, PI, *“Preparation of the Survey Design for the Distance Sampling based Survey Design of Polar Bears in East Greenland”*, Greenland Institute of Natural Resources, GRO; *“Support on the Design and Analysis of a Beluga Whale Survey”* and *“Support on the Analysis of Cetacean Data from the Northern Barents Sea”*, Norwegian Polar Institute, NOR; *“Survey design for the Distance Sampling Survey of the polar Bear Beaufort Sea Sub-populations”*, Yukon Government, Canada.

**Marques, T.A.** (co-PI with S. Buckland), *“Extension for Data Analysis of the Joint Norwegian Russian 2015 Polar Bear Survey”* and *“Joint Norwegian Russian 2015 polar bear survey”*, Norwegian Polar Institute, NOR.

**Marques, T.A.** (co-PI with L. Thomas; M. Johnson, P. Arranz & N. A. de Soto), *“Estimating Beaked Whale Density from Passive Acoustic Recordings”*, Office of Naval Research, USA.

**Marques, T.A.** (co-PI with C. Booth), *“Long Term Fixed Acoustic Monitoring of Marine Mammals throughout the Life Cycle of an Offshore E&P Field Development”*, Joint Industry Program, USA.

**Marques, T.A.** (co-PI with L. Thomas & D. Moretti), DECAF-TEA: *“Density Estimation for Cetaceans from Acoustic Fixed sensors in Testing and Evaluation Areas”*, Living Marine Resources program, US.

**Marques, T.A.** (co-PI with L. Thomas, D. Moretti & J. Shaffer), *“Beaked whale group deep dive behaviour from passive acoustic monitoring”*, Office of Naval Research, US.

**Marques, T.A.** (co-PI jointly with L. Thomas), *“Low Visibility Real-time Monitoring Techniques Review”*, Joint Industry Program, US.

**Oliveira, T.A.** — Membro do Projeto: *Soluções Tecnológicas para a Adequação da Paisagem Rural ao Código Florestal Brasileiro*. Sigla: SOLCOF; *Technologies solutions for implementing the new Brazilian Environmental Law*. Programa de Financiamento / Entidade Financiadora: Departamento de Transferencia de Tecnologia Código:SEG: 05.13.25.008.00.00, Data de Início: 2014/05/01, Data de Fim: 2018/04/30. Orçamento Total / UAb: 1.277.100,00 (reais)/ 0  
<https://www.infoteca.cnptia.embrapa.br/infoteca/bitstream/doc/1016666/1/FolderSementes.pdf>

**Papoila, A.L.**, (team member) *“Lesão tubular renal em doentes VIH: progressão e interacção”*, Programa Gilead GÉNESE, Refª - PGG/032/2015 - Projeto Científico. Financiado com 10.000,00 €. Miriam Karina Soto Rios (investigadora principal)

**Pereira, C.P.** *“A Contribution for Medico-legal Estimation of aAge in Portuguese Population”*. Instituto de Ciências da Saúde Egas Moniz (Portugal) and University of Lincoln (UK).

**Pereira, C.P.** “*Estimativa Médico-Legal da Idade pela Proporção Polpa/Dente numa População Portuguesa: Validação do Método de Cameriere em Pré-molares Inferiores*”, “*Estimativa Médico-Legal da Idade pela Proporção polpa/dente numa População Portuguesa: Validação do Método de Cameriere em Incisivos Centrais Superiores*” and “*Estimativa Médico-Legal da Idade pela Proporção Polpa/Dente numa População Portuguesa: Validação do Método de Cameriere em Pré-Molares Superiores*”, Faculdade de Medicina Dentária da Universidade de Lisboa.

**Ribeiro, C.** (team member) MILAGE: Interactive Mathematics by implementing a Blended-Learning model with Augmented Reality and Game books, Erasmus Project, 2015-1-PT01-KA201-012921, 1/09/2015 to 31/08/2018, Countries: Portugal, Spain, Norway and Turkey, coordinator: Mauro Figueiredo from University of Algarve

**São João, R.** (team member) "Indicadores de saúde do Concelho de Santarém".  
[http://si.essaude.ipsantarem.pt/essaude\\_si/web\\_base.gera\\_pagina?p\\_pagina=1343932](http://si.essaude.ipsantarem.pt/essaude_si/web_base.gera_pagina?p_pagina=1343932)

**São João, R.**, (team member)"Incluir – Oficinas para todos e para cada um".  
<http://www.hds.min-saude.pt/index.php/2016/11/1>

**São João, R.**, (CEAUL team member) Concurso de Projetos de Investigação Científica e Desenvolvimento Tecnológico em Institutos e Escolas Politécnicas 2016, SAICT-POL/24111/2016, Volta Já: Programa de Intercâmbio Sénior, Instituto Politécnico de Santarém (IPSantarém)6/incluir-oficinas-para-todos-e-para-cada-um/

**Sepúlveda, N.** (Statistician). HaMEC – An international consortium for Haiti Malaria Elimination. Funding body: Bill & Melinda Gates Foundation, USA.

**Sepúlveda, N.** (Co-PI). Zika: Zika virus surveillance in human and mosquito populations in Cape Verde. Funding body: Medical Research Council, United Kingdom

**Sepúlveda, N.** (Co-PI). Feasibility of a serological assay for malaria elimination certification. Funding body: Bill & Melinda Gates Foundation, USA.

**Sousa, L.** (CEAUL team member) Smlax - “Semantic Mining with Linked Data”, project funded by FCT, ref: PTDC/EEI-ESS/4633/2014 (01/07/2016 - 30/06/2019), PI: Cátia Pesquita (DI-FCUL).

**Turkman, K.F., Amaral Turkman, M.A. & Antunes, M.** (CEAUL team members) - PERSSILAA, SEVENTH FRAMEWORK PROGRAMME. Project full title: "*PERSONALISED ICT SUPPORTED SERVICE FOR INDEPENDENT LIVING AND ACTIVE AGEING*", Grant agreement no: 610359, Call (part) Identifier FP7-ICT-2013-10. Portuguese Coordinator: Amélia Pilar Rauter (FCUL), (11/2013-11/2016).  
<https://persilaa.com/>

**Turkman, K.F., Amaral Turkman, M.A. & Pereira, P.** (CEAUL team members) Fire in the Rural-Urban Interface: characterization, risk mapping, and fuel break design, PTDC/AGR-FOR/2586/2014. Members. KF Turkman is responsible for Probabilistic models for fire risk in the RUI. Principal Investigator: J.M. Pereira, CEAUL collaborator.

## ORGANIZATION of INVITED SESSIONS, SEMINARS and CONFERENCES

### *Seminars organized directly by CEAUL*

(14)

Titulo	Orador/Instituição	Local	Data
SEMINÁRIO (conjunto) CEAUL/Mestrado em Bioestatística "Integrating Biological Information through Differential Shrinkage in a Bayesian Joint Model: Improving the Analysis of Genetic Association Studies"	Prof. Miguel Pereira - National Heart and Lung Institute - Imperial College London -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30 - 14:30h	21-Dez-2016
SEMINÁRIO (conjunto) CEAUL/Mestrado em Bioestatística: "Bayesian Joint Modeling of Longitudinal and Time-to- event Data"	Prof.a Carmen Armero - Department of Statistics and Operations Research, Universitat de València -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30 - 14:30h	14-Dez-2016
SEMINÁRIO (conjunto) CEAUL/Mestrado em Bioestatística: "Dosimetria Citogenética: uma Abordagem Paramétrica Integralmente Bayesiana"	Prof. Carlos Daniel Paulino - CEAUL e IST, Universidade de Lisboa -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30 - 14:30h	30-Nov-2016
SEMINÁRIO (conjunto) CEAUL/Mestrado em Bioestatística "A Non- homogeneous Markov Spatial Temporal Model for Dengue Epidemics"	Prof.a. Marília Antunes - CEAUL/DEIO - Universidade de Lisboa -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30 - 16:00h	21-Nov-2016
SEMINÁRIO (conjunto) CEAUL/Mestrado em Bioestatística "Modelação do Efeito do Frio Extremo na Saúde da População de Lisboa: Contributos para um Sistema de Vigilância e Alerta"	Dr.ª. Susana Das Neves Pereira Da Silva - Instituto Nacional de Saúde Dr. Ricardo Jorge -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30 - 14:30h	16-Nov-2016
SEMINÁRIO: Unemployment Estimation: a Spatial Point Process Approach	Dr.ª Soraia Pereira - FCUL/CEAUL -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30 - 14:30h	9-Nov-2016

SEMINÁRIO (conjunto) CEAUL/Mestrado em Bioestatística "Statistics for Human Systems Neuroscience and Neuropsychiatry"	Dr.ª Diana Prata - Instituto de Medicina Molecular, Faculdade de Medicina da Universidade de Lisboa -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30 - 14:30h	19-Out-2016
SEMINÁRIO: Anthropogenic Influences on Spatial and Temporal Variation in Fire Activity	Profª Maria Antónia Amaral Turkman - Centro Estatística e Aplicações/Faculdade de Ciências da Universidade de Lisboa -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30 - 14:30h	28-Set-2016
SEMINÁRIO: An Extension of Gompertzian Growth Dynamics: Weibull and Fréchet Models	Prof.ª Sandra Aleixo - Instituto Superior de Engenharia de Lisboa -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30 - 14:30h	13-Jul-2016
SEMINÁRIOS: 1) Diagnostic and Treatment for Linear Mixed Models - 2) Uma Introdução à Teoria de Resposta ao Item (TRI)	1) Prof. Júlio M. Singer - Departamento Estatística - IME/Universidade São Paulo - Brasil 2) Prof. Dalton Andrade - Departamento de Informática e Estatística/Universidade Federal Santa Catarina - Brasil -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30 - 14h - 16h 30m	6-Jul-2016
SEMINÁRIO: The Choice of Block Size for Resampling in the Extremal Index Estimation	Prof.ª Dora Gomes - CMA e Departamento de Matemática, FCT - Universidade Nova de Lisboa -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30 - 14:30h	22-Jun-2016
SEMINÁRIO: INteger-Valued APARCH Processes	Prof.ª Maria da Conceição Costa - Departamento de Matemática e CIDMA, Universidade de Aveiro -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30 - 14:30h	8-Jun-2016
SEMINÁRIOS: 1) Risk Measure in Practice: how to Choose it, how to Test it - 2) Distribution-Free Shewhart-Lepage Type Fuzzy Control Schemes for Simultaneous Monitoring of Location and Scale	1) Prof.ª Marie Kratz - ESSEC Business School, CREAR, France - 2) Prof. Amitava Mukherjee - Xavier School of Management, Production, Operations and Decision Sciences Area, Jamshedpur, India -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30 - 15h - 17h 30m (coffee	3-Jun-2016



		break 16h)	
SEMINÁRIO: Análise de Sobrevivência na Presença de Riscos Competitivos	Prof.ª Laetitia Teixeira - ICBAS - Universidade do Porto -	FCUL - Campo Grande - Bloco C8 Piso 2 - Sala: 8.2.10 - 14:30h	24-Mai-2016

## Organized directly by CEAUL members

(11)

Domingues, T. (Organizer) & **Amaral Turkman, M.A.** (co-organizer) "*Comemorações do Dia Europeu da Estatística*", October 20, 2016, Anfiteatro da FFCUL.  
<http://european-statistics-day-2016.mozello.com/>

**Figueiredo, F.** (Organizer). "*Joint Retrospective Analysis of Subgroup Location and Scale Based on a Single Statistic*", Seminar by Amitava Mukherjee XLRI — Xavier School of Management, Production, Operations and Decision Sciences Area Jamshedpur-831001, India, Faculdade de Economia da Universidade do Porto, June 1, 2016.

**Figueiredo, F.** (Organizer and Chair). "*Statistical Quality Control: Theory and Practice*". Invited thematic session at the international workshop WSMC10, Tomar 2016.

**Gomes, M.I.** (Organizer and Chair). "*Rare and Extreme Events in Climatology*". Invited Session to the 9th *International Conference of the ERCIM WG on Computational and Methodological Statistics* (ERCIM 2016), Sevilla, Spain, December 9-11. *Speakers:* Davide Faranda, Jorge Freitas, Ana Cristina Moreira de Freitas, Philippe Naveau (presented by Patricia Tencaliec) and **M.M. Neves**.

**Neves, M.M.** (Organizer and Chair). "*Aplicações da Estatística em Ciências Biológicas*". Thematic Session with 4 speakers at *XXIII Jornadas de Classificação e Análise de Dados*, March 31 - April 2 2016, Universidade de Évora.

**Neves, M.M.** (Organizer and Chair). "*Statistics and Applications in Life Sciences*". Thematic session with 4 speakers at *5th Portuguese-Polish Workshop on Biometry (PPWB5) and the 10th Workshop on Statistics, Mathematics and Computation (WSMC10)*, 26 -- 28 May, 2016, Tomar.

**Oliveira, T.A.** (Organizer and Chair). "*Statistical Modelling and Applications*". Invited Session at the V<sup>th</sup> Portuguese-Polish Workshop on Biometry. 26- 28th May of 2016, at IPT - Tomar, Portugal. <http://conferencessat.wixsite.com/wsmc10ppwb5>

**Oliveira, T.A.** (Organizer and Chair). "*Data Analysis Methods*". Special Session at SMTDA2016, 4th Stochastic Modeling Techniques and Data Analysis International Conference and Demographics Workshop. University of Malta, Valletta, Malta, June 1-4, 2016. <http://www.smta.net/>



**Oliveira, T.A.** (Organizer and Chair). “Quality Control and Risk”. CRA-ISI Special Session at ISBIS 2016 - Meeting on Statistics in Business and Industry, June 8-10, Hosted at the Universitat Politècnica de Catalunya, Barcelona TECH, Barcelona, Spain.

<http://www2.stat.duke.edu/~banks/barcelona/barprog2.pdf>

**Oliveira, T.A.** (Organizer and Chair). “Statistical Models, Methodologies and Applications”. Symposium at “ICNAAM 2016, 19-25 September 2016, Rhodes, Greece.

[http://history.icnaam.org/icnaam\\_2016/index.html](http://history.icnaam.org/icnaam_2016/index.html)

**Silva, G.** Responsible for the Seminars and Short Courses of Center of Statistics and Applications, University of Lisbon, 2016.

## Scientific and Organizing committees

(26)

**Amaral Turkman, M.A.** President of the Portuguese Scientific Committee, II Galician-Portuguese Meeting of Biometry with applications to the Health Sciences, Ecology and Environmental Sciences, Santiago de Compostela, Spain, 30th June to 2nd July, 2016.

<http://biometria.sgapeio.es/index.php/en>

**Cadima, J. & Neves, M.** Members of the Scientific Committee of the *23rd Edition of the Jornadas de Análise e Classificação de Dados, JOCLAD*, University of Évora, March 31 to April 2, 2016.

<http://www.joclad2016.uevora.pt/index.php?/event/Organizacao/Comissao-Cientifica>

**de Zea Bermudez, P.** Chair of the Portuguese Organizing Committee, II Galician-Portuguese Meeting of Biometry with applications to the Health Sciences, Ecology and Environmental Sciences, Santiago de Compostela, Spain, 30th June to 2nd July, 2016.

<http://biometria.sgapeio.es/index.php/en>

**Figueiredo, F., Gomes, M.I., Neves, M.M., Oliveira, A., Oliveira, T.A. & Pestana, D.** CEAUL members in the Scientific Committee, *X<sup>th</sup> Workshop on Statistics, Mathematics and Computation and V<sup>th</sup> Portuguese-Polish Workshop on Biometry*. IPT-Tomar, Portugal, May 26-28, 2016.

<http://conferencesstat.wixsite.com/wsmc10ppwb5>

**Gomes, M.I.** CEAUL member of the Scientific Program Committee The 9th *International Conference of the ERCIM WG on Computational and Methodological Statistics* (CMStatistics 2016), Seville, Spain, December 9-11, 2016.

<http://cmstatistics.org/CMStatistics2016/committees.php>

**Gomes, M.I.** CEAUL member (ex-officio) of the Scientific Programme Committee *ISI 2017: 61<sup>th</sup> World Statistics Congress*. Marrakech, Morocco, July 16-21, 2017

<http://www.isi2017.org/index.php/isi2017/committees/scientific-prog-committee>

**Gomes, M.I.** (co-chair), **Oliveira, A.** & **Oliveira, T.A.**. CEAUL members in the Scientific Committee, *SMTDA 2016, 4<sup>th</sup> Stochastic Modeling Techniques and Data Analysis International Conference* and *5th Demographics 2016 Workshop*, June 1-4, 2016, Valletta, Malta. <http://www.smta.net/committees.html>

**Gomes, M.I.**, **M.M. Neves**, **A. Oliveira** & **T.A. Oliveira.**, CEAUL members in the Scientific Committee, *XLVI International Biometrical Colloquium*, September, Lublin (Poland), September 5-7, 2016.  
[http://cb46.up.lublin.pl/komnauk\\_en.php](http://cb46.up.lublin.pl/komnauk_en.php)

**Gomes, M.I.** & **Pestana, D.** members of the International Scientific Committee, *CHAOS 2016*, London, UK, May 23-26. CEAUL:  
<http://www.cmsim.org/committees2016plenary.html>

**Gomes, M.I.** & **Pestana, D.** CEAUL members of the Scientific Committee, *CONFMET 2016—As Medições num Mundo Dinâmico*, November 17-18, Évora  
<http://www.spmet.pt/confmet2016.html>

**Oliveira, T.A.** Organizer of the 2016 *Seminars on Mathematics at AbERTA* (9 Seminars).

**Oliveira, T.A.** member of the Organizing Committee, *ICNAAM 2016*, September 19-25, 2016, Rhodes, Greece.  
[http://history.icnaam.org/icnaam\\_2016/index.html](http://history.icnaam.org/icnaam_2016/index.html)

**Oliveira, T.A.** CEAUL member of Program Committee, *4<sup>th</sup> International Conference Technological Ecosystems for Enhancing Multiculturality – TEEM'16* and Member of Track 5 Scientific Committee “Learning analytics: Needs and opportunities”, Research Institute for Educational Sciences, University of Salamanca, Spain, November 2-4, 2016.  
<https://2016.teemconference.eu/>

**Oliveira, A.** & **Oliveira, T.A.** CEAUL members of the Scientific, Cultural and Artistics Comission of *MAE-ENCONTRO Arte e Educação com os Artenautas do Brincar*, Museu do Brincar, Vagos, Aveiro, Portugal, March 28 – April 2, 2016.  
<https://www.facebook.com/amilcar.martins.583/posts/10154134942339078>

**Oliveira, A.** & **Oliveira, T.A.** (co-chair). CEAUL members in the Organizing Committee, *X<sup>th</sup> Workshop on Statistics, Mathematics and Computation* and *V<sup>th</sup> Portuguese-Polish Workshop on Biometry*. IPT-Tomar, Portugal, May 26-28, 2016.  
<http://conferencessstat.wixsite.com/wsmc10ppwb5>

**Oliveira, A.** & **Oliveira., T.A.** CEAUL members of Scientific Committee, *8th International Workshop on Mathematical E-Learning*, E-MATH 2016, UNED, Madrid, Spain, May 5-6, 2016.  
<https://sites.google.com/site/8emath2016madrid/home>.

**Oliveira, A.** & **Oliveira, T.A.** CEAUL members of the Scientific Program Committee, *ISBIS 2016-Meeting on Statistics in Business and Industry*, Universitat Politècnica de Catalunya, Barcelona TECH, Barcelona, Spain, June 8-10, 2016.  
<http://www2.stat.duke.edu/~banks/barcelona/index.html>

**Oliveira, A. & Oliveira, T.A.** CEAUL members of the Scientific Program Committee, 1ª *Conferência Internacional de Sustentabilidade e Inovação – CISI 2016*, Universidade Federal de Santa Maria–Santa Maria–RS–Park Hotel Morotin–Brasil, August 9-12, 2016.  
<http://www.empreend.pt/cisi2016/>

**Oliveira, A. & Oliveira, T.A.** CEAUL members of the Scientific Committee , CIEM 2016 - 6<sup>th</sup> *Conferência Ibérica de Empreendedorismo*, Universidade da Corunha, Espanha, October 27-28, 2016.  
<http://www.empreend.pt/conferencia2016/>

**Oliveira, A. & Oliveira, T.A.** CEAUL members of the Scientific Committee, III *Workshop on Computational Data Analysis and Numerical Methods (WCDANM 2016)*, Instituto Politécnico de Portalegre, Portalegre, Portugal, November 18, 2016.  
<http://iiiwcdanm2016.yolasite.com/>

**Paulino, C.D.:** Member of the Scientific Committee, II Galician-Portuguese Meeting of Biometry with applications to the Health Sciences, Ecology and Environmental Sciences, Santiago de Compostela, Spain, 30th June to 2nd July, 2016.  
<http://biometria.sgapeio.es/index.php/en>

**Pereira, C.P.** 4<sup>th</sup> CEAUL member of the Scientific Committee and ChairPresident, International Meeting on Forensic Sciences and Criminal Behaviour, May 6-7, 2016.  
<http://meetingfscb16.wixsite.com/4thimfs>

**Pereira, C.P.** CEAUL member and ChairPresident, IALM (*International Academy of Legal Medicine*) 2016 *Intersocietal Symposium*, 21-24 June, Venice, Italy.  
<https://sistemacongressi.fervetopus.net/en/sistemacongressi/ialm-2016-venice/website/iofos-international-organization-for-forensic-odonto-stomatology/>

**Silva, C.** Member of the Scientific Committee of the Computational and Applied Statistics (CAS 2016), Beijing, China, July 4-7, 2016.  
<http://cas20160.webnode.pt/>

**Silva, G.** Member of the Organizing Committee, II Galician-Portuguese Meeting of Biometry, with applications to Health Sciences, Ecology and Environmental Sciences, Santiago de Compostela - Spain, June 30 – July 2, 2016.  
<http://biometria.sgapeio.es/index.php/en>

**Silva, G.** Member of the organizing committee, I Meeting of the Portuguese Biostatistics Network and Biometry Section of the Portuguese Statistical Society, Faculty of Science - University of Lisbon, Lisbon, June 9, 2016.

## ADVANCED and SPECIALIZED TRAINING

### Organized by CEAUL

(1)

Titulo	Formadores	Local	Data
<a href="#">Minicurso: ESTATÍSTICA BAYESIANA COMPUTACIONAL</a>	CD Paulino, MA Turkman, G Silva, P de Zea Bermudez	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.31 - 9h 30m - 18h	1-Jun-2016 2-Jun-2016

### Lectured by members of CEAUL

(8)

**Cadima, J.** Post-Graduate Course in Estatística com R Aplicada às Ciências Biológicas, Instituto Superior de Agronomia - Lisbon University (January-July 2016). taught part of two modules: Generalized Linear Models and Mixed Models; and Applied Multivariate Analysis.

<https://fenix.isa.ulisboa.pt/qubEdu/cursos/cposg.ecracb/lateral/apresentacao>

**Neves, M.M.**, “Estatística com R aplicada às Ciências Biológicas”, February, March 2016, ISA/ULisboa.

**Neves, M.M.**, “Inferência Estatística e Reamostragem”, February, March 2016, ISA/ULisboa.

**Paulino, C.D., Turkman, M.A., Silva, G. & de Zea Bermudez, P.** Estatística Bayesiana Computacional – uma introdução, FCUL, June 1-2, 2016. Organized by CEAUL.

**Ramos, S.** “Análise quantitativa de dados com SPSS” – 6ª Edição, Instituto Superior de Engenharia do Porto - Porto. Dezembro 2016.

**Sepúlveda, N.** & Carneiro J., Statistics and Quantitative Biology (January 2016). PhD program of the Gulbenkian Institute for Science, Lisbon, Portugal.

**Sepúlveda, N.**, Gomes, G. & Carneiro, J., Computational Biology /Epidemiology /Statistics, Gulbenkian PhD programme for cooperation and development, Cidade da Praia, Cape Verde.

**Silva, G.** Course Survival Analysis, Faculty of Sciences of the University of Lisbon, Lisbon, November 3-4, 10-11, 2016. Organized by EXIGO Consultors.

## GRANTS

### PRIZES

(4)

**Sousa, L. & co-authors:** Prize "Inovação CNOIV" (Comissão Nacional da Organização Internacional da Vinha e do Vinho) for the original work "Transcriptome and metabolome reprogrammig in Vitis vinifera cv. Trincadeira berries upon infection with Botrytis cinerea", published in 2015.

**Ramos, S.** (2016). Prize for scientific merit given by Instituto Politécnico do Porto (IPP) for the publication of two articles during 2015 in periodicals on the top 10% ranking of the respective scientific area.

Alves, D., Santos, Z., Craveiro, I., Amado, M., Delgado A., Correia, A., **Gonçalves, L.** Projeto UPHI-STAT: hábitos alimentares em contexto urbano – o caso da capital de Cabo Verde. Congresso Internacional Nutrição e Segurança Alimentar (CINSA), 21-23 de outubro de 2016, Tábua (Portugal). (Best oral communication by Daniela Alves)

**de Zea Bermudez** (Presenter), P. & **Antunes, M.**, Proença, M. C., Rebelo, M. T., Osório, H. & Alves, M. J. "Spatial Modelling of the Abundance of Culex pipiens in Portugal - A Bayesian Approach", II Galician Portuguese Meeting of Biometry, Santiago de Compostela (Espanha), 30 Junho - 02 Julho 2016 (2nd prize for the best poster presentation)

## CONSULTANCY 2016

(4)

**Antunes, M.:** Scientific consultancy for Novartis Pharmaceuticals under contract established by FFCUL.

**Carvalho, M.L.:** Scientific consultancy for IPMA (Instituto Português do Mar e da Atmosfera) under contract established by FFCUL.

**Papoila, A.L.:** Consulting work at the Epidemiology and Statistical Analysis Unit, Research Center of Centro Hospitalar de Lisboa Central, Lisboa (hospital center with six hospitals).

**Sousa, L.:** Expert testimony of Generis Farmacêutica, S.A.

## REPORTS

(11)

Cardoso, A., **Cabral, M.S.**, Carrondo, A. & Guerra (2016). J. A population pharmacokinetic model of cyclosporine in Portuguese renal transplant patients. Submitted Preprint.

Drakeley, C., Stresman, G., **Sepúlveda, N.**, Tetteh K & van den Hoogen L. (2016). *Elimination of malaria in Haiti*. Malaria Centre Report 2014-2016, p. 92.

**Figueiredo, F., Gomes, M.I.** & Henriques-Rodrigues, L. (2016). *Value-at-Risk Estimation and the PORT Mean-of-order-p Methodology*, CEAUL 04/16.

**Gomes, M.I.** & Henriques Rodrigues, L. (2016). *Competitive Estimation of the Extreme Value Index*, CEAUL 01/16.

**Penalva, H., Caeiro, F., Gomes, M.I. & Neves, M.M.** (2016). *An Efficient Naive Generalisation of the Hill Estimator Discrepancy between Asymptotic and Finite Sample Behaviour*, CEAUL 02/16.

**Pereira, J.M.C., Amaral Turkman, M.A., Turkman, K.F. & Oom, D.** (2016). *Weekly Cycles in Daily Global Fire Count Time Series*, CEAUL 03/16.

**Sepúlveda, N.**, Clark, T., Drakeley, C., Reyburn, H. & Riley, E. (2016). *Genetic determinants of anti-malarial acquired immunity in a large multi-centre study*. Malaria Centre Report 2014-2016, p 32.

**Sepúlveda, N.**, Drakeley, C., & **Paulino, C.D.** (2016). *Statistical challenges of using sero-epidemiological metrics in populations on the cusp of malaria elimination and eradication*. Malaria Centre Report, 2014-2016, p. 96.

Souto de Miranda, M., Miranda, C. & **Gomes, M.I.** (2016). *A Robust Proposal for Estimating the Extremal Index with the Blocks Estimator*. Preprint, Universidade de Aveiro, under submission.

Stresman, G., **Sepúlveda, N.**, Cox, J., Bousema, T. & Drakeley, C. (2016). New strategies for estimating malaria transmission: using serology to get a more precise estimate of local-level variation in transmission. Malaria Centre Report 2014-2016, p. 95.

van den Hoogen, L., Cook, J., **Sepúlveda, N.**, Corran, P., Conway, D., Milligan, P., Targett, G., D'Alessandro, U., Greenwood, B., Riley, E. & Drakeley, C. (2016). Serology describes a profile of declining malaria transmission in Farafenni, the Gambia. Malaria Centre Report 2014-2016, p. 34.