

« [Voltar ao Projecto](#)

FCT Fundação para a Ciência e a Tecnologia

MINISTÉRIO DA EDUCAÇÃO E CIÊNCIA

Relatório de Progresso

[Relatório de Progresso Lacrado com Sucesso a 04-11-2016]

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 inactividade!
- 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.

Formulário Relatório de Progresso - Componente Científica

Relatório de Progresso nº 1

Período a que o relatório diz respeito:

Data de início: 01-01-2015

Data de fim:

1. Identificação do Projecto

Referência do Projecto: UID/MAT/00006/2013

Investigador Responsável: Maria Antonia Conceição Abrantes Amaral Turkman

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

During 2015 CEAUL passed through very difficult times due to the evaluation of GOOD received during the last research units' evaluation exercise undertaken by FCT. The result of CEAUL's appeal to this evaluation, made during October 2014, was received on the 26th February 2016. The Panel/FCT found grounds to change the decision and hence CEAUL received on 29th

of April 2016, the information that a classification VERY GOOD had been awarded. This situation had a very negative impact in the proposed CEAUL's extra activities for 2015, as it is described in the next section "Desvios à Proposta Aprovada". However, CEAUL's researchers continued 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 2015, that is, with a Ph.D. degree and participation at least 30% in the centre. A complete list of the publications, communications, projects and other activities are found in the pdf attached to this report. Part of those publications which in some way reflect the variety of research developed in CEAUL are in section 3 of this report. This list includes a book published by Springer on Distance Sampling, a short selection of chapter of books (4 out of 26) and of international publications (16 out of 65).

In section 4, indicators of physical realization, chapters of books are included in the field reserved for international publications, since there is not a specific place for them. In communications we include only publications in proceedings and not the number of communications presented in national or international meetings.

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 2015

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

A location invariant probability weighted moment EVI estimator; The total median statistic to monitor contaminated normal data; New reduced-bias estimators of a positive extreme value index; Extreme value Birnbaum-Saunders regression models applied to environmental data; On the block maxima method in extreme value theory; Pseudo-convex Mixtures Generated by Shape-extended Stable Distributions for Extremes; A general estimator for the right endpoint with an application to supercentenarian women's records; Tail fitting for truncated and non-truncated Pareto-type distributions; Big Bang Bifurcation Analysis and Allee Effect in Generic Growth Functions; Skewness into the Product of Two Normally Distributed Variables and the Risk Consequences; Modeling Non-Life Insurance Price for Risk without Historical Information; Time series analysis of data for Sea Surface Temperature; A dependence modelling study of extreme rainfall in Madeira Island; The EWMA median chart with estimated parameters; A new insight for monitoring ungulates: Density Surface Modelling of roe deer in a Mediterranean habitat; Medico-Legal Age Estimation in a Sub-adult Portuguese Population; Extreme Value Analysis—a brief overview with an application to flow discharge rate data in a hydrometric station in the North of Portugal; spatial-temporal study of some soil characteristics;.

Group 2: Statistical Models and Methods for Complex Systems

Strategically the group does fundamental research on areas with strong impact in applications. The main topics of research during 2015 were on: Adapting extreme value statistics to financial time series; Statistics of heteroscedastic extremes; Generalized Linear Mixed Effects Models for Longitudinal Binary Data; Fitting Generalized Pareto Distributions to precipitation extremes to reassess the impacts of blocking patterns on precipitation regimes in the Iberian Peninsula; Statistical models of wildfires-spatial and temporal patterns; Sample size and power calculations for detecting changes in malaria transmission; Principal component analysis: a review and recent developments; Functional Coherence Metrics in Protein Families; The risk of chronic kidney disease and mortality are increased after community-acquired acute kidney injury; Bayesian joint modeling of longitudinal and spatial survival AIDS data, Pharmacoeconomics of ruxolitinib therapy in patients with myelofibrosis; OwlSight: Platform for Realtime Detection and Visualization of Cyber Threats; Presence of pharmaceuticals in the Lis river (Portugal); Ecotoxicological impact of two soil remediation treatments in *Lactuca sativa* seeds.

3. Participation in Conferences

Due to the unavailability of financial support, most of the conferences where CEAUL members participated with contributed work were either presented by co-workers, or supported by other means. There were 16 seminars by invitation, 3 plenary talks, 27 Invited talks (6 funded by CEAUL), 43 international contributed talks (7 funded), 30 national contributed talks (5 funded).

4. Advanced training

There were 23 master dissertations and 3 Ph.D theses supervised by members of CEAUL. Besides, members of CEAUL lectured 15 advanced or specialized courses. Also an advanced course on INLA lectured by Charlotte Jones-Todd, was organized by CEAUL

5. Organization of events

There were 17 seminars organized by CEAUL; some of them organized jointly with the master program in Biostatistics. Members of CEAUL were responsible for the organization of 5 meetings out of the 29 participation in scientific and organizing committees. There were 4 international and 1 national books edited with referred and selected papers from organized conferences.

6. Projects and consultancy

During 2015 members of CEAUL were involved in 27 projects, listed in the pdf annexed. Among these, 4 were European projects, 1 COST, 3 preparations for COST projects, 3 from FCT, and 4 with the industry (2 national and 2 international). Also some consultancy work was done for NOVARTIS and PROSEGUR.

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 2015-2010:

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 2015. The fact that members of CEAUL could not attend important international meetings for lack of funds, such as EVA 2015 (Extreme Value Analysis) and ISRA 2015 (International Society for Bayesian

Analysis), the dissemination of this work was somehow compromised.

b) Participate in national and international projects of an interdisciplinary nature.

Some of these objectives were accomplished. However, the execution of several projects could not go ahead due to the uncertainties of the future of CEAUL caused by the result of the evaluation process. Among these we mention the project of collaboration between CEAUL and Portuguese Southern Cancer Registry (ROR Sul) and the cooperation with the Commission on Quality and Patient Safety Centre of Centro Hospitalar de Lisboa Central, EPE(CHLC), to evaluate the user satisfaction of CHLC patients, were CEAUL had the responsibility to construct the questionnaires and analysis of surveys of customer satisfaction.

Thematic lines had a role to play in this process. Activities of these thematic lines were also compromised in this respect. Even so, there was a considerable work developed during 2015 of an interdisciplinary nature in Biostatistics, Environmental Statistics and Financial extremes.

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

This was also reasonably accomplished during 2015, although not in full since CEAUL had to decline participation in some projects with Industry, for the same reason as above.

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.

Again, due to lack of funding, CEAUL could not carry out the planned program for 2015 regarding courses and seminars offered by international researchers in emerging areas of statistics. Most of the foreign researchers who gave seminars and offered an advanced course during 2015 came to CEAUL on their own expenses.

Regarding the Ph.D. program, there is a lack of interest within the 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 2015 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

Since the funding allocated to CEAUL for 2015-2017 was only known on the 29th April 2016, the budget allocated for 2015 was only 7505 to cover expenses done by members of CEAUL which had entered FFCUL and were in conditions to be accepted by FCT . Of these 5425,43 were in missions, 163,64 for services, 271,90 in equipment and 1501 reserved for overheads.

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.

Buckland, S.T.; Rexstad, E. A.; Marques, T.A., Oedekoeven, C.S. 2015 Distance Sampling: Methods and Applications, Methods in Statistical Ecology Series, Springer. <http://www.springer.com/gp/book/9783319192185>

Bermudez, P. de Zea, Amaral Turrkman, M.A. e Turkman, K. F. (2015). Parameter Estimation of Bilinear Processes Using Approximate Bayesian Computation, In E. Gonçalves, P. Oliveira, P. and C. Tenreiro (eds.), Contributions in Statistics and Inference: Celebrating Nazaré Mendes Lopes' Birthday. Textos de Matemática, Nº 47, DM, FCT Universidade de Coimbra, 135-151. <http://www.mat.uc.pt/~textos/index.php/TM/article/view/11>

Caeiro, F. & Gomes, M.I. (2015). Adaptive Choice of Optimal Threshold in EVA. Chapter in: Dipak Dey and Jun Yan, Extreme Value Modeling and Risk Analysis, Chapman-Hall/CRC, ISBN 9781498701297, pp. 69-87. <https://www.crcpress.com/Extreme-Value-Modeling-and-Risk-Analysis-Methods-and-Applications/Dey-Yan/p/book/9781498701297>

Natário I., Figueiredo I., Lucília Carvalho M. (2015), A State Space Model Approach for Modelling the Population Dynamics of Black Scabbardfish in Portuguese Mainland Waters. Dynamics, Games and Science, CIM Series in Mathematical Sciences, Springer International Publishing, Vol. 1, pp 499-512. http://link.springer.com/chapter/10.1007%2F978-3-319-16118-1_26

Silva-Fortes, C., Freitas, A., Roque, S., Sousa, L. (2015). Arrow Plot and CA Maps for Visualizing the Effects of Background Correction and Normalization Methods on Microarray Data. In "Pattern Recognition in Computational Molecular Biology: technologies and approaches", M. Elloumi, C. S. Iliopoulos, J. T. L. Wang, A. Y. Zomaya, Editors, John Wiley & Sons. 394-416 (ISBN-10:1118893689) <http://www.wiley.com/WileyCDA/WileyTitle/productCd-1118893689.html>

Caeiro, F. & Gomes, M.I. (2015). Bias reduction in the estimation of a shape second-order parameter of a heavy tailed model. J. Statist. Comput. and Simul.85:17, 3405-3419. <http://www.tandfonline.com/doi/abs/10.1080/00949655.2014.975707?journalCode=gscs20>

de Haan, L. A. Klein Tank and Neves, C. (2015). On tail trend detection: modeling relative risk. Extremes, 18,141-178. ink.springer.com/article/10.1007/s10687-014-0207-8

Ferreira, A. and de Haan, L. (2015). On the block maxima method in extreme value theory: PWM estimators, Ann. Statist. 43:1, pp. 276-298. <https://projecteuclid.org/euclid.aos/1418135622>

Gomes, M.I., Brillhante, M.F., Caeiro, F., and Pestana. D. (2015). A new partially reduced-bias mean-of-order p class of extreme value index estimators. Computational Statistics & Data Analysis, 82, 223-237. <http://www.sciencedirect.com/science/article/pii/S0167947314002680>

Gonçalves AF, Diamantino F, Pestana D, Palmela Pereira C (2015) The Medico-Legal Importance of Establishing Human Identity

by Palatal Rugoscopy: Evaluation of the Immutability and Individuality of Palatal Rugae under the Influence of Ante Mortem Orthodontic Treatment. *J Forensic Sci Criminol* 3(3): 303. <http://www.annexpublishers.co/articles/JFSC/3303-The-Medico-Legal-Importance-of-Establishing-Human-Identity-by-Palatal-Rugoscopy.pdf>

Gonçalves, L., Santos, Z., Amado, M., Alves, D., Simões, R., Delgado, A., Correia, A., Velez Lapão, L., Cabral, J., Craveiro, I. (2015) Urban Planning and Health Inequities: looking in a small-scale in a City of Cape Verde. *PLoS ONE* 10(11): e0142955. <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0142955>

Leiva, V. and Oliveira, A. (2015). np-Charts for Attribute Control. *Wiley StatsRef: Statistics Reference Online*. 1–6. DOI: 10.1002/9781118445112.stat07828

Leiva, V. and Oliveira, T.A. (2015). p-Charts for Attribute Control. *Wiley StatsRef: Statistics Reference Online*. Wiley, ISBN:9781118445112. <http://onlinelibrary.wiley.com/doi/10.1002/9781118445112.stat07827/full>.

Nazareth, T., Sousa, C.A., Porto, G., Gonçalves, L., Seixas, G., Antunes, L., Silva, A.C., Teodósio, R., (2015). Impact of dengue outbreak experience in a dengue infected community of a temperate region: Madeira Island, Portugal. *PLOS Neglected Trop Dis* 9(3): e0003395. <http://journals.plos.org/plosntds/article?id=10.1371/journal.pntd.0003395>

Neves, M.M., Gomes, M.I., Figueiredo, F. & Prata-Gomes, D. (2015). Modeling extreme events: sample fraction adaptive choice in parameter estimation. *Journal of Statistical Theory and Practice* 9:1, 184-199. <http://www.tandfonline.com/doi/abs/10.1080/15598608.2014.890984?journalCode=ujsp20>

Pereira JMC, Oom D, Pereira P, Amaral Turkman MA, Turkman, KF (2015) Religious Affiliation Modulates Weekly Cycles of Cropland Burning in Sub-Saharan Africa. *PLOS one*. 10(9). 2015 <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0139189>

Poleto, F., Paulino, C. D., Singer, J. and Molenberghs, G. (2015). Semi-parametric Bayesian analysis of binary responses with a continuous covariate subject to non-random missingness. *Statistical Modeling* 15, 1-23. <http://smj.sagepub.com/content/15/1/1.abstract>

Quintana FA, Muller P, Papoila AL. (2015). Cluster-Specific Variable Selection for Product Partition Models. *Scandinavian Journal of Statistics* 42, 1065-77. <http://onlinelibrary.wiley.com/wol1/doi/10.1111/sjos.12151/full>

Reis, P., Canto e Castro, L., Dias, S. & Gomes, M.I. (2015). Penultimate approximations and reliability of large coherent systems. *Methodology and Computing in Applied Probability* 17: 189-206. <http://link.springer.com/article/10.1007/s11009-013-9338-7>

Rocha, J. Leonel, Taha, A-K, and Fournier-Prunaret, D. (2015) Symbolic Dynamics and Big Bang Bifurcation in Weibull-Gompertz-Fréchet's Growth Models, *Applied Mathematics & Information Sciences*, 9, 5, 2377-2388. <http://www.naturalspublishing.com/files/published/289a6d3yn9gnz7.pdf>

Santos, R., Felgueiras, M., and Martins, J.P. (2015). Known mean, unknown maxima? Testing the maximum knowing only the mean, *Communications in Statistics - Simulation and Computation* 44(10), 2473--2491. <http://www.tandfonline.com/doi/abs/10.1080/03610918.2013.773345>

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
A - Publicações	
Livros	2
Artigos em revistas internacionais	91
Artigos em revistas nacionais	9
B - Comunicações	
Comunicações em encontros científicos internacionais	25
Comunicações em encontros científicos nacionais	2

C - Relatórios	6
D - Organização de seminários e conferências	46
E - Formação avançada	
Teses de Doutoramento	3
Teses de Mestrado	23
Outras	16
F - Modelos	0
G - Aplicações computacionais	0
H - Instalações piloto	0
I - Protótipos laboratoriais	0
J - Patentes	0
L - Outros	

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
	2	CEAUL_lista_publicações_2015
	2	CEAUL lista publicações 2015
CEAUL2015Publicações.pdf	2	lista de publicações

Centre of Statistics and its Applications

CEAUL

Annex to the 2015 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: (with Ph.D. and at least 30% participation)

Dinis Duarte Ferreira Pestana

Maria Manuela Costa Neves Figueiredo

Luisa 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

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: (with Ph.D. and at least 30% participation)

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 Trigoso Papoila 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

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PUBLICATIONS 2015

(Members of CEAUL underlined)

BOOKS INTERNATIONAL

(1)

Buckland, S.T., Rexstad, E. A., Marques, T.A., Oedekoeven, C.S. (2015). *Distance Sampling: Methods and Applications*, Methods in Statistical Ecology Series, Springer.

CHAPTER OF BOOKS INTERNATIONAL

(26)

Bermudez, P. de Zea, Amaral Turkman, M.A. and Turkman, K.F. (2015). Parameter Estimation of Bilinear Processes Using Approximate Bayesian Computation, In E. Gonçalves, P. Oliveira, P. and C. Tenreiro (eds.), *Contributions in Statistics and Inference: Celebrating Nazaré Mendes Lopes' Birthday*. Textos de Matemática, Nº 47, Departamento de Matemática, Faculdade de Ciências e Tecnologia da Universidade de Coimbra, pp. 135-151.

Caeiro, F. and Gomes, M.I. (2015). Adaptive Choice of Optimal Threshold in EVA. Chapterin: Dipak Dey and Jun Yan, *Extreme Value Modeling and Risk Analysis*, Chapman-Hall/CRC, ISBN 9781498701297, pp. 69-87.

Figueiredo, F. and Gomes, M.I. (2015). The role of asymmetric families of distributions in eliminating risk to real data modelling. In Kitsos, C., Oliveira, T., Rigas, A. and Gulati, S. (eds.), *Theory and Practice of Risk Assessment*, Springer Proceedings in Mathematics and Statistics 136, Springer International Publishing, Switzerland, pp. 267-277.

Figueiredo, F. and Gomes, M.I. (2015). Control charts implemented on the basis of a bootstrap reference sample. In Filius, L., Oliveira, T. & Skiadas, C.H. (Eds.), *Stochastic Modeling, Data Analysis and Statistical Applications*, ISAST editions, 505-514.

Fraga Alves, M.I. and Rosário, P. (2015). Parametric and Semi-Parametric Approaches to Extreme Rainfall Modelling. In: *Theory and Practice of Risk Assessment*. C. Kitsos, T.A Oliveira, S. Gulati, S. Rigas Eds. Book Series Springer Proceedings in Mathematics and Statistics, Springer, pp 279-291.

Fraga Alves, M.I. (2015). Max-stability at Work (or not): modeling annual or monthly maxima for daily rainfall data. In *Mathematics of Energy and Climate Change*, CIM

Series in Mathematical Sciences. Pinto, Bourguignon, Jeltsch and Viana Eds. Springer Verlag, pp-1-14.

Gomes, M.I. (2015). NAZARÉ and ARCH processes: extremal index estimation. In E. Gonçalves, P. Oliveira, P. and C. Tenreiro (eds.), *Contributions in Statistics and Inference: Celebrating Nazaré Mendes Lopes' Birthday*. Textos de Matemática, Nº 47, Departamento de Matemática, Faculdade de Ciências e Tecnologia da Universidade de Coimbra, pp. 1-12.

Gomes, M.I., Brilhante, F. and **Pestana, D.** (2015). A mean-of-order-p class of value-at-risk estimators. In Kitsos, C., Oliveira, T., Rigas, A. and Gulati, S. (eds.), *Theory and Practice of Risk Assessment*, Springer Proceedings in Mathematics and Statistics 136, Springer International Publishing, Switzerland, pp. 305-320.

Gomes, M.I., Caeiro, F. and **Figueiredo, F.** (2015). A Partially Reduced-Bias Value-at-Risk Estimation Procedure. In Filius, L., Oliveira, T. & Skiadas, C.H. (Eds.), *Stochastic Modeling, Data Analysis and Statistical Applications*, ISAST editions, 409-419.

Gomes, M.I., Henriques-Rodrigues, L. and **Figueiredo, F.** (2015). Resampling-based methodologies in statistics of extremes: environmental and financial applications. In J.-P. Bourguignon, R. Jeltsch, A. Adrega Pinto, M. Viana (eds.), *Mathematics of Planet Earth: Energy and Climate*, CIM Series in Mathematical Sciences, Springer Verlag, Chapter 6, pp.163-181.

Gouveia-Reis, D. and **Mendonça, S.** (2015). Exploring Probability Distributions with the Softwares R and Excel. In *Hands-on Science. Brightening our Future*. Costa, M. F., Dorrió, B. V. (Eds.) Hands on Science Network, 95-102. ISBN: 978-989-8798-01-5.

Martins, J.P., Santos, R. and **Felgueiras, M.** (2015). A Maximum Likelihood Estimator for the Prevalence Rate Using Pooled Sample Tests. In C.P. Kitsos *et al.* (eds.): *Theory and Practice of Risk Assessment*, Springer Proceedings in Mathematics & Statistics 136, Springer, pp. 99-110.

Mendonça, S., Pestana, D. and **Gomes, M.I.** (2015). Randomly stopped k-th order statistics. In Kitsos, C., Oliveira, T., Rigas, A. and Gulati, S. (eds.), *Theory and Practice of Risk Assessment*, Springer Proceedings in Mathematics and Statistics 136, Springer International Publishing, Switzerland, pp. 249-266.

Natário, I., Figueiredo, I. and **Carvalho, M. Lucília** (2015). A State Space Model Approach for Modelling the Population Dynamics of Black Scabbardfish in Portuguese Mainland Waters. In *Dynamics, Games and Science*, CIM Series in Mathematics, Vol.I., Jean-Pierre Bourguignon *et al.* (eds.), Springer-Verlag, pp. 499-512.

Neves, M. M. (2015). Geostatistical Analysis in Extremes: an overview. In Bourguignon, J.-P., Jeltsch, R., Adrega Pinto, A., and Viana, M. (eds.) *Mathematics of Planet Earth: Energy and Climate*, CIM Series in Mathematical Sciences. Springer Verlag, pp. 229-245.

Oliveira, T.A., Oliveira, A. and **Monteiro, A.** (2015). Microarray Experiments on Risk Analysis using R. In Kitsos, C., Oliveira, T., Rigas, A. and Gulati, S. (eds.), *Theory and Practice of Risk Assessment*, by Springer Proceedings in Mathematics and Statistics, 136, 147-158.

Oliveira, T.A., Leal C. and **Oliveira, A.** (2015). Response Surface Methodology: a review of applications to risk assessment. In Kitsos, C., Oliveira, T., Rigas, A. and Gulati, S. (eds.), *Theory and Practice of Risk Assessment*, by Springer Proceedings in Mathematics and Statistics, 136, 385-397.

Pereira, J.A., Ferreira, M.C, **Oliveira, T.A.** (2015). *Assessing Risk Factors for Periodontitis Using Multivariate Regression Analysis*. In Kitsos, C., Oliveira, T., Rigas, A. and Gulati, S. (eds.), *Theory and Practice of Risk Assessment*, by Springer Proceedings in Mathematics and Statistics, 136, 123-132.

Pestana, D., Rocha, M.L., and Sequeira, F. (2015). Finite Populations Sampling Strategies and Costs Control, in Kitsos, Ch., Oliveira, T.P., Rigas, A., and Gulati, S. (eds.) *Theory and Practice of Risk Assessment*, Springer Proceedings in Mathematics and Statistics 136, Springer International Publishing, Switzerland, pp. 221-223.

Prata Gomes, D. and **Neves, M.M.** (2015). Adaptive choice and resampling techniques in extremal index estimation. In Kitsos, C., Oliveira, T., Rigas, A. and Gulati, S. (eds.), *Theory and Practice of Risk Assessment*, Springer Proceedings in Mathematics and Statistics, 321-332.

Rocha, J. Leonel, Taha, A-K, and Fournier-Prunaret, D. (2015). From Weak Allee Effect to no Allee Effect in Richards' Growth Models, In *Nonlinear Maps and their Applications*, R. López-Ruiz, et al. (Eds), Springer Proc. in Mathematics and Statistics 112, Chap.16, 253-267.

Rocha, J. Leonel, **Aleixo, S.M.,** and Caneco, A. (2015) Chaotic Dynamics and Synchronization of von Bertalanffy's Growth Models, In *Dynamics, Games and Science*, CIM Series in Mathematical Sciences 1, Bourguignon, J-P., et al. (Eds), Springer, Chap.30, 547-571.

Santos, R., **Martins, J.P.** and **Felgueiras, M.** (2015). An Overview of Quantitative Continuous Compound Tests. In Bourguignon, J.P., Jeltsch, R., Pinto, A., and Viana, M. (Eds.): *Dynamics, Games and Science*, CIM Series in Mathematical Sciences 1, pp. 627-641.

Santos, R., **Felgueiras, M.** and **Martins, J.P.** (2015). Discrete Compound Tests and Dorfman's Methodology in the Presence of Misclassification. In C.P. Kitsos *et al.* (eds.): *Theory and Practice of Risk Assessment*, Springer Proceedings in Mathematics & Statistics 136, Springer, pp. 85-98.

Silva-Fortes, C., Freitas, A., Roque, S., **Sousa, L.** (2015). Arrow Plot and CA Maps for Visualizing the Effects of Background Correction and Normalization Methods on Microarray Data. In *Pattern Recognition in Computational Molecular Biology: technologies and approaches*, M. Elloumi, C.S. Iliopoulos, J.T.L. Wang, A.Y. Zomaya, Editors, John Wiley & Sons. Pp. 394-416 (ISBN-10:1118893689)

Silva, G.L., **Soares, P.**, Marques, S., Dias, M.I., Oliveira, M.M. and Borges, J.G. (2015). A Bayesian modelling of wildfires in Portugal. In *Dynamics, Games and Science - International Conference and Advanced School Planet Earth DGS II*, Bourguignon, J.P., Jelstch, R., Pinto, A.A. and Viana, M. (Editors), CIM Series in Mathematical Sciences, Springer-Verlag, pg. 723-733.

CHAPTERS OF BOOKS INTERNATIONAL (IN PRESS by 2016)

(2)

Fraga Alves, M.I. and **Neves, C.** (2015+). Extreme Value Theory: An Introductory Overview. In Longin, F. (ed.), *Handbook of Extreme Value Theory and Its Applications to Finance and Insurance*. Handbook Series in Financial Engineering and Econometrics (Ruey Tsay Adv.Ed.), John Wiley & Sons, accepted.

Gomes, M.I., Caeiro, F., Henriques-Rodrigues, L. & Manjunath, B.G. (2015+). Bootstrap methods in statistics of extremes. In Longin, F. (ed.), *Handbook of Extreme Value Theory and Its Applications to Finance and Insurance*. Handbook Series in Financial Engineering and Econometrics (Ruey Tsay Adv.Ed.), John Wiley & Sons, accepted.

BOOKS (EDITOR) INTERNATIONAL

(4)

Filius, L., **Oliveira, T.A.** and Skiadas, C.H. (2015). *Stochastic Modeling, Data Analysis and Statistical Applications*, ISAST editions

Karagrigoriou, A, **Oliveira, T.A.** and Skiadas. C.H. (2015). *Statistical, Stochastic and Data Analysis: Methods and Applications*. Copyright © 2015 by ISAST. ISBN (print): 978-618-5180-07-2; ISBN (e-book) : 978-618-5180-09-6

Kitsos, C., **Oliveira, T.A.**, Rigas, A. and Gulati, S. (2015). *Theory and Practice of Risk Assessment*, Springer Proceedings in Mathematics and Statistics, 136.

Oliveira, T.A., Mejza, S., Kitsos, C., Grilo, L., and **Oliveira, A.** (2015). *Conference Papers: 9th Workshop on Statistics, Mathematics and Computation*. Universidade Aberta. Editora: IPT – Editions, ISBN: 978-972-9473-95-1. Depósito Legal Nº: 402493/15.

PUBLICATIONS INTERNATIONAL

(65)

Abrantes, C., **Santos, R.**, **Pestana, D.** **Pereira, C.P.** (2015). Application of Dental Morphological Characteristics for Medical-Legal Identification: Sexual Diagnosis in a Portuguese Population. *HSOA Journal of Forensic, Legal & Investigative Sciences* **1**–1–7

Agudelo-Romero, P., Erban, A., Rego, C., Carbonell-Bejerano, P., Nascimento, T., **Sousa, L.**, Martínez-Zapater, J.M., Kopka, J., Fortes A.M. (2015). Transcriptome and metabolome reprogramming in *Vitis vinifera* cv. Trincadeira berries upon infection with *Botrytis cinerea*. *Journal of Experimental Botany* **66**(7): 1769-1785.

Amaral Turkman, M.A. (2015). Teaching Bayes Around the World: Portugal, *The ISBA Bulletin*, 22, nº 3, 14-15.

Banheiro, R., Escobar, C. , **Pereira, C.** (2015). Injuries of Non-Lethal Child Physical Abuse to the Crania and Orofacial Regions: A Scientific Review. *Journal of Forensic Research*, **06**(03). OMICS International

Bastos, H.P., **Sousa, L.**, Clarke, L.A. and Couto, F.M. (2015). GRYFUN: A web application for GO term annotation visualization and analysis in protein sets. *PLoS ONE* **10** (3): e0119631. (DOI: 10.1371/journal.pone.0119631)

Cairo, F. and **Gomes, M.I.** (2015). Bias reduction in the estimation of a shape second-order parameter of a heavy tailed model. *J. Statist. Comput. and Simul.* **85**:17, 3405-3419.

Cairo, F. and **Gomes, M.I.** (2015). Revisiting the maximum likelihood estimation of a positive extreme value index. *Journal of Statistical Theory and Practice* **9**:1, 200-218. <http://dx.doi.org/10.1080/15598608.2014.909754>

Carreiro-Martins P., Rosado-Pinto J., do Céu Teixeira M., Neuparth N., Silva O., **Papoila A.L.**, Khaltayev N., Bousquet J., Annesi-Maesano I. (2015). Distribution and etiology of chronic respiratory diseases in primary healthcare departments in Cape Verde. *Rev Epidemiol Sante Publique* **63**, **5**, p. 305-13. (DOI: 10.1016/j.respe.2015.06.007)

Chor D., **Andreozzi, V.**, Fonseca M.J., Cardoso L.O., James S.A., Lopes C.S., Faerstein E. (2015). Social inequalities in BMI trajectories: 8-year follow-up of the Pró-Saúde study in Rio de Janeiro, *Brazil. Public Health Nutr.* 2015 Dec; **18**(17):3183-91. doi: 10.1017/S1368980015001032. Epub 2015 Apr 21.

Clarke, L.A., Botelho, H., **Sousa, L.**, Falcao, A., Amaral, M.D. (2015). Transcriptomics meta-analysis reveals common pathways between Cystic Fibrosis and other respiratory diseases and identifies CFTR regulators. *Genomics* **106**(5):268-277.

de Haan, L. (2015). Convergence of heteroscedastic extremes. *Statistics and Probability Letters*, **101**, 38-39.

de Haan, L. A. Klein Tank and **Neves, C.** (2015). On tail trend detection: modeling relative risk. *Extremes*, **18**,141-178.

Diogo L.N., Pinto P, Bárbara C., Monteiro E.C., **Papoila A.L.** (2015). Neck circumference and body mass index as independent predictors of hypertension misclassification in patients suspected of having obstructive sleep apnea. *Blood Pressure Monitoring* **20**, 1, p. 8-15.

Diogo L.N., Pinto P., Bárbara C., **Papoila A.L.**, Monteiro E.C. (2015). The association between antihypertensive medication and blood pressure control in patients with obstructive sleep apnea. *Advances in Experimental Medicine and Biology* **860**, 201-09.

Drees, H. and **de Haan L.** (2015). Estimating failure probabilities. *Bernoulli*, **21**(2), 957-1001.

Durão C., **Andreozzi, V.**, Oliveira A., Moreira P., Guerra A., Barros H., Lopes C. (2015). Maternal child-feeding practices and dietary inadequacy of 4-year-old children. *Appetite*. 2015 Sep; **92**:15-23. doi: 10.1016/j.appet.2015.04.067. Epub 2015 Apr 29.

Ferreira, A. and de **Haan, L.** (2015). On the block maxima method in extreme value theory: PWM estimators, *Ann. Statist.* **43**:1, pp. 276-298.

Ferreira, A. (2015). Spatial aggregation and high quantile estimation applied to extreme precipitation. *Statistics and Its Interface (SII)* **8.1** pp. 33-43.

Ferreira, C.A., Mixão, V.P., Novo, M.T., Calado, M.A., **Gonçalves, L.**, Belo, S., Almeida, A.P. (2015). First molecular identification of mosquito vectors of *Dirofilaria immitis* in continental Portugal. *Parasites & Vectors*, **8**:139 doi:10.1186/s13071-015-0760-2

Fougères, A.L., **de Haan, L.** and Mercadier, C. (2015). Bias correction in multivariate extremes. *Annals of Statistics*, **43**:2, 903-934.

Fraga Alves, M.I. and **de Carvalho, M.** (2015). An interview with Ivette Gomes, *Extremes*, **18**:4, pp 563-583. IF: **1.33**

Gomes, M.I., **Brilhante, M.F.**, Caeiro, F. and **Pestana, D.** (2015). A new partially reduced-bias mean-of-order-p class of extreme value index estimators. *Computational Statistics and Data Analysis* **82**, 223-237.

Gomes, M.I., **Figueiredo, F.**, Martins, M.J. and **Neves, M.M.** (2015). Resampling methodologies and reliable tail estimation. *South African Statistical Journal* **49**, 1-20.

Gomes, M.I. and Guillou, A. (2015). Extreme Value Theory and Statistics of Univariate Extremes: A Review. *International Statistical Review* **83**:2, 263-292.

Gonçalves A.F., **Diamantino F.**, **Pestana D.**, **Palmela Pereira C.** (2015). The Medico-Legal Importance of Establishing Human Identity by Palatal Rugoscopy: Evaluation of the Immutability and Individuality of Palatal Rugae under the Influence of Ante Mortem Orthodontic Treatment. *J Forensic Sci Criminol* **3**(3): 303.

Gonçalves, L., Santos, Z., Amado, M., Alves, D., Simões, R., Delgado, A., Correia, A., Velez Lapão, L., Cabral, J., Craveiro, I. (2015). Urban Planning and Health Inequities: looking in a small-scale in a City of Cape Verde. *PLoS ONE* **10**(11): e0142955. doi:10.1371/journal.pone.0142955.

Henriques-Rodrigues, L., **Gomes, M.I.** and Manjunath, B.G. (2015). Estimation of a scale second-order parameter related to the PORT methodology. *Journal of Statistical Theory and Practice* **9**:3, 571-599.

Leal, R.O., Gil, S., Duarte, A., McGahie, D., **Sepúlveda, N.**, Niza, M.M., Tavares, L. (2015). Evaluation of viremia, proviral load and cytokine profile in naturally feline immunodeficiency virus infected cats treated with two different protocols of recombinant feline interferon omega. *Res. Vet. Sci.* **99**:87-95.

Leiva, V. and **Oliveira, A.** (2015). *np-Charts for Attribute Control*. *Wiley StatsRef: Statistics Reference Online*. 1–6.

Leiva, V. and **Oliveira, T.A.** (2015). *p-Charts for Attribute Control*. *Wiley StatsRef: Statistics Reference Online*. 1–8.

Lolic, A., Paíga, P., H.M.L.M. Santos, Lúcia, **Ramos, S.**, Correia, M. and Delerue-Matos, C. (2015). Assessment of non-steroidal anti-inflammatory and analgesic pharmaceuticals in seawaters of North of Portugal: Occurrence and environmental risk. *Science of The Total Environment*, **508**, pp. 240- 250.

Maduro, A.P., **Gonçalves, L.**, Inácio, J., Faria, N.C., Martins, M.L., Teles, F.R. (2015). HIV/AIDS-Associated Cryptococcosis in Portugal Spanning the Pre- to Post-HAART Era: A Retrospective Assessment at the Genotypic Level Based on URA5-RFLP. *Curr Microbiol.*, **71** (4):449-57.

Martins A.L., Chaves P., **Papoila A.L.**, Loureiro H.C. (2015). The family role in children's sleep disturbances: Results from a cross-sectional study in a Portuguese Urban pediatric population. *Sleep Science* **8,3** p.108-14.

Medeiros M., Mesquita E., Gardete-Correia L., Moita J., Genro V., **Papoila A.L.**, **Amaral-Turkman A.**, Raposo J. (2015). First incidence and progression study for diabetic retinopathy in Portugal, the RETINODIAB Study—Evaluation of the screening programme for Lisbon and Tagus Valley region. *Ophthalmology* **122**, (12) 2473-81.

Medeiros M.D., Mesquita E., **Papoila A.L.**, Genro V., Raposo J.F. (2015). First diabetic retinopathy prevalence study in Portugal: RETINODIAB Study—Evaluation of the screening programme for Lisbon and Tagus Valley region. *British Journal of Ophthalmology* **99**, 10 p. 1328-33.

Nazareth, T., Sousa, C.A., Porto, G., **Gonçalves, L.**, Seixas, G., Antunes, L., Silva, A.C., Teodósio, R. (2015). Impact of dengue outbreak experience in a dengue infected community of a temperate region: Madeira Island, Portugal. *PLOS Neglected Trop Dis* **9**(3): e0003395. doi:10.1371/journal.

Neves, M.M., **Gomes, M.I.**, **Figueiredo, F.** and Prata-Gomes, D. (2015). Modeling extreme events: sample fraction adaptive choice in parameter estimation. *Journal of Statistical Theory and Practice* **9**:1, 184-199.

Østerås N., Jordan K.P., Clausen B., **Cordeiro C.**, Dziedzic K., Edwards J., Grønhaug G., Higginbottom A., Lund H., Pacheco G., Pais S., Hagen K.B. (2015). Self-reported quality care for knee osteoarthritis: comparisons across Denmark, Norway, Portugal and the UK. *BMJ Open* **1**(1). DOI: 10.1136/rmdopen-2015-000136.

Osteras, N., Jordan, K. Clausen, **Cordeiro, C.**, Dziedzic, K., Gronhaug, G, Lund, H., Pais, S. Hagen, K.B. (2015). THU0360 Differences in Self-Reported Quality of Care for Knee Osteoarthritis across Denmark, Norway, Portugal and United Kingdom. *Annals of the Rheumatic Diseases* **74**(Suppl 2):326.1-326.

Oliveira, M., **Ramos, S.**, Delerue-Matos, C. and Morais, S. (2015). Espresso beverages of pure origin coffee: Mineral characterization, contribution for mineral intake and geographical discrimination. *Food Chemistry*, **177**, pp. 330-338.

Paulino J., Vigia E., Marcelino P., Abade O., Sobral J., Ligeiro D., Carvalho A., Alves M., **Papoila A.L.**, Trindade H., Barroso E. (2015). Clinical Outcomes and Genetic Expression Profile in Human Liver Graft Dysfunction during Ischemia/Reperfusion Insury. *Transplantation Proceedings* **47**, 4, p. 882-87.

Pereira, C.P., Escobar, C., and Santos, J. C. (2015). Age Estimation of Unaccompanied Minors: A Portuguese Overview. *Annals of Forensic Research and Analysis*, **2** (1), 3 p.

Pereira, C. P., and Santos, J. C. (2015). The Role of Forensic Dentistry for Identification of a Criminal Sexual Assault: A Casework Report. *Journal of Civil & Legal Sciences*, **04**(01). OMICS International.

Pereira J.A., **Oliveira T.A.**, Costa A., Mendes L., Santiago E. (2015). *Modelling of periodontal attachment lost from microCT data*. *Journal of Clinical Periodontology*. Volume **42**, Issue Supplement S17, Pages 179–180. John Wiley & Sons A/S.

Pereira L.S., Paredes P., Rodrigues G.C., **Neves, M.M.** (2015). Modeling malt barley water use and evapotranspiration partitioning in two contrasting rainfall years. Assessing AquaCrop and SIMDualKc models. *Agric. Water Manage* **159**, 239-254. Corrigendum in *Agric. Water Manage* **163**, Pages 408.

Pereira J.M.C., Oom D., **Pereira P.**, **Amaral Turkman A.**, **Turkman, K.F.** (2015). Religious Affiliation Modulates Weekly Cycles of Cropland Burning in Sub-Saharan Africa. *PLOS one*. 10(9): DOI: 10.1371/journal.pone.0139189.

Pereira-da-Silva L., Cabo C., Moreira A.C., **Papoila A.L.**, Virella D., Neves R., Bridges K.M., Cordeiro-Ferreira G. (2015). The effect of longchain polyunsaturated fatty acids intake during pregnancy on adiposity of healthy full-term offspring at birth. *Journal of Perinatology* **35**, 3, p 177-80.

Pereira, V.T., **Sousa, L.**, Sousa, A.T., Pais, M.S. (2015). Mechanisms of resistance/tolerance of *Pyrus communis* to *Stemphylium vesicarium*. A transcriptome analysis. *Agroforestry Systems* **89** (6): 991-1017.

Pinto, A.E., Pereira, T., **Silva, G.L.** and André, S. (2015). Aneuploidy identifies subsets of patients with poor clinical outcome in grade 1 and grade 2 breast cancer. *The Breast*, **24**(4), 449-55. DOI: 10.1016/j.breast.2015.04.004

Poleto, F., **Paulino, C.D.**, Singer, J. and Molenberghs, G. (2015). Semi-parametric Bayesian analysis of binary responses with a continuous covariate subject to non-random missingness. *Statistical Modeling* **15**, 1-23.

Prata Gomes, D., **Neves, M.M** and Moreira, E. (2015). An exploratory study of spatial annual maximum of monthly precipitation in the northern region of Portugal. *Physics and Chemistry of the Earth, Parts A/B/C*. pp 1:8

Prata Gomes, D. and **Neves, M.M.** (2015). Bootstrap and Other Resampling Methodologies in Statistics of Extremes. *Communications in Statistics--Simulation and Computation*, Vol. **44**, Issue 10, 2592-2607.

Quintana F.A., Muller P., **Papoila A.L.** (2015). Cluster-Specific Variable Selection for Product Partition Models. *Scandinavian Journal of Statistics* **42**, 4 p. 1065-77.

Reis, P., **Canto e Castro, L.**, Dias, S. and **Gomes, M.I.** (2015). Penultimate approximations and reliability of large coherent systems. *Methodology and Computing in Applied Probability* **17**:1, 189-206.

Rocha, J. Leonel, Taha, A-K, and Fournier-Prunaret, D. (2015). Explosion Birth and Extinction: Double Big Bang Bifurcations and Allee Effect in Tsoularis-Wallace's Growth Models, *Discrete & Continuous Dynamical Systems - Series B*, **20**, 9, 3131-3163.

Rocha, J. Leonel, Taha, A-K, and Fournier-Prunaret, D. (2015). Symbolic Dynamics and Big Bang Bifurcation in Weibull-Gompertz-Fréchet's Growth Models, *Applied Mathematics & Information Sciences*, **9**, 5, 2377-2388. (DOI 10.12785/amis/090520)

Rocha, J. Leonel, Grácio, C., Fernandes, S., and Caneco, A. (2015). Spectral and Dynamical Invariants in a Complete Clustered Network, *Applied Mathematics & Information Sciences*, **9**, 5, 2367-2376.

Rodrigues, S., **Cordeiro, C.**, Seijo B., Remuñán-Lopez C., Grenha, A. (2015). Hybrid nanosystems based on natural polymers as protein carriers for respiratory delivery: Stability and toxicological evaluation. *Caborhydrate Polymers*, **123**: 369-380. DOI 10.1016/j.carbpol.2015.01.048.

Russo, G., **Gonçalves, L.**, Craveiro, I., Dussault, G. (2015). Feminization of the medical workforce in low-income settings; findings from surveys in three African capital cities. *Human Resources for Health* **13**:64.

Santos, R., Felgueiras, M., and Martins, J.P. (2015). Known mean, unknown maxima? Testing the maximum knowing only the mean, *Communications in Statistics - Simulation and Computation* **44**(10), pp. 2473-2491.

Simões, M.L., **Gonçalves, L.**, Silveira, H. (2015). Hemozoin activates the innate immune system and reduces Plasmodium berghei infection in Anopheles gambiae. *Parasites & Vectors*, **8**:12, doi:10.1186/s13071-014-0619-y.

Sepúlveda N., Paulino, C.D. and Drakeley, C. (2015). Sample size and power calculations for detecting changes in malaria transmission using antibody seroconversion rate. *Malaria Journal*, **14**, 529.

Timóteo A.T., **Papoila A.L.**, Lousinha A., Alves M., Miranda F., Ferreira M.L., Ferreira R. (2015). Predictive impact on medium term mortality of hematological parameters in Acute Coronary Syndromes: added value on top of GRACE risk score. *European Heart Journal: Acute Cardiovascular Care* **4**, **2**, p. 172-79.

Virella D., Pereira-da-Silva L., **Papoila A.L.** (2015). Parenteral phosphate and amino acids supply effect on the growth of extremely preterm infants. Accurate measurements and optimized statistical analysis are important [Letter to editor]. *Acta Paediatrica* **104**, **12**, p. e537. (DOI: 10.1111/apa.13153)

Xavier R., Azeredo-Lopes S., **Papoila A.L.** (2015). Spreader grafts: functional or just aesthetical? *Rhinology* **53**, **4** p. 332-39. (DOI: 10.4193/Rhino13.069).

PUBLICATIONS INTERNATIONAL (IN PRESS by 2016)

(13)

Caeiro, F., **Gomes, M.I.** and Henriques-Rodrigues, L. (2014+). A location invariant probability weighted moment EVI estimator. *International Journal of Computer Mathematics*. Accepted, September 2014

Cardoso G., Graça J., Klut Catarina, Trancas B., **Papoila A.L.** (2015+). Depression and anxiety symptoms following cancer diagnosis: a cross-sectional study. *Psychology, Health & Medicine* **18**, 1-9. [Epub ahead of print].

de Carvalho, Mamede, **Amaral Turkman, M.A.**, Pinto Susana, Swash Michael (2015+). Modulation of fasciculation frequency in amyotrophic lateral sclerosis. *Journal of Neurology, Neurosurgery and Psychiatry*, Published Online First, 23 January 2015.

de Haan, L., Mercadier C. and Zhou, C. (2015+). Adapting extreme value statistics to financial time series: dealing with bias and serial dependence. *Finance and stochastics*, Accepted, August 2015. DOI: 10.1007/s00780-015-0287-6

Einmahl, J.H.J., **de Haan, L.** and Zhou, C. (2015+) Statistics of heteroscedastic extremes. *Journal of the Royal Statistical Society, Series B*, To appear.

Figueiredo, F. and **Gomes, M.I.** (2013+). The total median statistic to monitor contaminated normal data. *Quality Technology and Quantitative Management*. Accepted, July 2014.

Gomes, M.I., Henriques-Rodrigues, L. and Manjunath, B.L. (2015+). Mean-of-order-p location-invariant extreme value index estimation. *Revstat*. Accepted January, 2015.

Gomes, M.I., **Brilhante, M.F.** and **Pestana, D.** (2013+). New reduced-bias estimators of a positive extreme value index. *Communications in Statistics — Simulation and Computation* **45**, 1-30. Accepted, December 2013.

Gouveia-Reis, D., Lopes, L. G. and **Mendonça, S.** (2015+), A dependence modelling study of extreme rainfall in Madeira Island, *Physics and Chemistry of the Earth*. DOI:10.1016/j.pce.2015.11.006 (in press).

Leiva, V., Ferreira, M., **Gomes, M.I.** and Lillo, C. (2015+). Extreme value Birnbaum-Saunders regression models applied to environmental data. *SERRA: Stochastic Environmental Research and Risk Assessment*. DOI: 10.1007/s00477-015-1069-6

Martins, J.P., **Felgueiras, M.** and **Santos, R.** (2015+). Estimation through array based group tests, *REVSTAT - Statistical Journal* (accepted).

Sousa Pedro M., Barriopedro, David, Ricardo M. Trigo, Alexandre M. Ramos, Raquel Nieto, Luis Gimeno, **Turkman, K.F.**, Margarida L.R. Liberato (2015+). Impact of Euro-Atlantic blocking patterns in Iberia precipitation using a novel high resolution dataset. *Clim Dyn*. DOI 10.1007/s00382-015-2718-7.

Vandewalle B., **Andreozzi, V.**, Almeida J., Félix J. (2015+). Pharmacoeconomics of ruxolitinib therapy in patients with myelofibrosis. *J Med Econ*. [Epub ahead of print], Accepted, 2015.

JOURNAL (EDITOR) INTERNATIONAL

(2)

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

Silva, G.L. and **Amaral Turkman, M.A.**, Guest editors of the REVSTAT: Statistical Journal, Special Issue on *Spatial-temporal Models in Epidemiology and Health*, Vol. 13, Number 1, 2015. ISSN: 0873-4275.

PROCEEDINGS INTERNATIONAL

(25)

Brilhante, M.F., **Gomes, M.I.** and **Pestana, D.** (2015). Further Results on Order Statistics and Products of Functions of Independent Generalized Beta Random Variables. In T. E. Simos, G. Psihoyios, Ch. Tsitouras and Z. Anastassi (eds.), *Numerical Analysis and Applied Mathematics ICNAAM 2014, AIP Conference Proceedings*, American Institute of Physics, 540002.

Brilhante, M.F., **Pestana, D.**, Semblano, P., and Sequeira, F. (2015). On the Proportion of Non Uniform Reported p-Values. In T. E. Simos, G. Psihoyios, Ch. Tsitouras and Z. Anastassi (eds.), *Numerical Analysis and Applied Mathematics ICNAAM 2014, AIP Conference Proceedings*, American Institute of Physics.

Costa, M. T., Carolino, E. and **Oliveira, T.A.** (2015). Multivariate control charts: An application on monitoring the quality parameters of drinking water. In T. E. Simos, G. Psihoyios, Ch. Tsitouras and Z. Anastassi (eds.), *Numerical Analysis and Applied Mathematics ICNAAM 2014, AIP Conference Proceedings* 1648, American Institute of Physics, 84006:

Costa, M.T., Carolino, E. and **Oliveira, T.A.** (2015). *Application of Hotelling's T^2 charts in monitoring quality parameters in a drinking water supply system* . In T. E. Simos, G. Psihoyios, Ch. Tsitouras and Z. Anastassi (eds.), *Numerical Analysis and Applied Mathematics ICNAAM 2014, AIP Conference Proceedings*, American Institute of Physics, **1648**, 840006.

Felgueiras, M., **Martins, J.P.**, and **Santos, R.** (2015). Searching for the corner seismic moment in worldwide data, 11th *International Conference of Computational Methods in Sciences and Engineering*, *AIP Conference Proceedings* 1702, 030003. DOI:10.1063/1.4938769.

Ferreira, M.C., Pereira, J.A. and **Oliveira, A.** (2015). Acquisition of Competencies in Mathematics through Games. In T. E. Simos, G. Psihoyios, Ch. Tsitouras and Z. Anastassi (eds.), *Numerical Analysis and Applied Mathematics ICNAAM 2014*, AIP Conference Proceedings 1648, American Institute of Physics, 840009.

Francisco, C. and **Oliveira, T.A.** (2015). BIBD, Hadamard matrices and new technological devices: Applications to QR codes. In T. E. Simos, G. Psihoyios, Ch. Tsitouras and Z. Anastassi (eds.), *Numerical Analysis and Applied Mathematics ICNAAM 2014*, AIP Conference Proceedings, American Institute of Physics, 1648, 840004.

Francisco, C., **Oliveira, T.A.** (2015). Risk of Data Loss on QR Codes: Hadamard Matrices and links to Block Designs. In *Current Topics on Risk Analysis: ICRA6 and RISK 2015 Conference*. Eds Guillén, M., Juan, A., Ramalhinho, H., Serra, I., Serrat, C.. Cuadernos de la Fundación. Área de Seguro y Previsión Social, Fundación MAPFRE. Pag. 311-318. ISBN 978-84-9844-496-4.

Gomes, M. I., Caeiro, F., **Figueiredo, F.** and **Pestana, D.** (2015). A Partially Reduced Bias Class of Value-at-Risk Estimators. *Proceedings of the 60th World Statistics Congress of the International Statistical Institute, ISI 2015*, International Statistical Institute, The Hague, The Netherlands, December 2015, pp. 2055-2060. ISBN: 978-90-73592-35-3.

Gouveia-Reis, D., L. G. Lopes and **Mendonça, S.** (2015). Application of block maxima model to Madeira Island's maximum annual rainfall data, *Proceedings of the 60th World Statistics Congress of the International Statistical Institute, ISI2015*, International Statistical Institute, The Hague, The Netherlands, December 2015, pp. 4221-4226. ISBN: 978-90-73592-35-3.

Leal, C., Oliveira, T.A., **Oliveira, A.** (2015). Stochastic Response Surface Methodology: A Study in the Human Health Area. In T. E. Simos, G. Psihoyios, Ch. Tsitouras and Z. Anastassi (eds.), *Numerical Analysis and Applied Mathematics ICNAAM 2014*, AIP Conference Proceedings, American Institute of Physics, 1648, 840012.

Martins, J.P., **Felgueiras, M.,** and **Santos, R.** (2015). Three-Dimensional Array-Based Group Testing Algorithms With One-Stage, 11th *International Conference of Computational Methods in Sciences and Engineering*, AIP Conference Proceedings 1702, 030004.

Miguel Á. Conde, Ángel Hernández-García, **Oliveira, A.** (2015). Endless horizons? Addressing current concerns about learning analytics. In Gustavo R. Alves and Manuel C. Felgueiras (Editors). *Proceedings of TEEM'15—Third International Conference on Technological Ecosystems for Enhancing Multiculturality*, 259-262. ISBN: 978-1-4503-3442-6

Neves, M.M., Penalva, H. and Nunes, S. (2015). Extreme value analysis of river levels in a hydrometric station in the North of Portugal. *Current Topics on Risk Analysis: ICRA6 and RISK 2015 Conference proceedings*. M. Guillén, A. Juan, H. Ramalhinho, I. Serra and C. Serrat (eds), 533-538.

Neves, M.M. (2015). A survey on statistical choice of extreme value models. *ACTAS XII Congreso Galego de Estatística e Investigación de Operacións Lugo*, Outubro de 2015. Ginzo Villamayor, M.J.; Alonso Meijide, J.M. e Ramil Novo, L.A. (eds), 41-47.

Osteras, N., Jordan, K. Clausen, **Cordeiro, C.**, Dziedzic, K., Gronhaug, G, Lund, H., Pais, S. Hagen, K.B. (2015). THU0360 Differences in Self-Reported Quality of Care for Knee Osteoarthritis across Denmark, Norway, Portugal and United Kingdom. *Annals of the Rheumatic Diseases* 74 (Suppl 2): 326.1-326.

Oliveira, T.A., Leal, C. and **Oliveira, A.** (2015). Stochastic Response Surface Methodology: A Study in the Human Health Area. In T. E. Simos, G. Psihoyios, Ch. Tsitouras and Z. Anastassi (eds.), *Numerical Analysis and Applied Mathematics ICNAAM 2014*, AIP Conference Proceedings 648, American Institute of Physics, 840012:

Oliveira, A., Oliveira, T.A., Seijas-Macias, J.A. (2015). Distribution Function for the ratio of Two Normal Random Variables. In T. E. Simos, G. Psihoyios, Ch. Tsitouras and Z. Anastassi (eds.), *Numerical Analysis and Applied Mathematics ICNAAM 2014*, AIP Conference Proceedings, American Institute of Physics, 1648, 840005.

Oliveira, T.A. (2015). Preface of the "Symposium on statistical modelling and biometrical applications". In T. E. Simos, G. Psihoyios, Ch. Tsitouras and Z. Anastassi (eds.), *Numerical Analysis and Applied Mathematics ICNAAM 2014*, AIP Conference Proceedings, American Institute of Physics, 840001:

Oliveira, T.A. and Francisco, C. (2015). BIBD, Hadamard matrices and new technological devices: Applications to QR codes. In T. E. Simos, G. Psihoyios, Ch. Tsitouras and Z. Anastassi (eds.), *Numerical Analysis and Applied Mathematics ICNAAM 2014*, AIP Conference Proceedings, American Institute of Physics, 840004.

Oliveira, T.A. (2015). Preface of the "Symposium on BE-SMART- biometry and extremes: Statistical modelling and R techniques". ICNAAM, AIP Conf. Proc. 1648, 840001.

Oliveira, T.A., **Oliveira, A.**, Carço, A., Batista, M.J., Oliveira, M.M. and Borges, J. (2015). Linear Regression on the characterization of elements of natural origin and possible implications in the use of ground. In T. E. Simos, G. Psihoyios, Ch. Tsitouras

and Z. Anastassi (eds.), *Numerical Analysis and Applied Mathematics ICNAAM 2014, AIP Conference Proceedings 1648*, American Institute of Physics, 840010:

Oliveira, T.A., Leal, C., **Oliveira, A.** (2015). *Stochastic Response Surface Methodology: a tool to risk assessment*. In *Current Topics on Risk Analysis: ICRA6 and RISK 2015 Conference*. Eds Guillén, M., Juan, A., Ramalhinho, H., Serra, I., Serrat, C.. Cuadernos de la Fundación. Área de Seguro y Previsión Social, Fundación MAPFRE. Pag. 551-560. ISBN 978-84-9844-496-4.

Pereira J.A., **Oliveira T.A.**, Costa A. and Mendes, L. (2015). Modulation of dental root surface area through GLMs – Clinical Applications In T. E. Simos, G. Psihoyios, Ch. Tsitouras and Z. Anastassi (eds.), *Numerical Analysis and Applied Mathematics ICNAAM 2014, AIP Conference Proceedings 1648*, American Institute of Physics, 840008:

Prata Gomes, D. and **Neves, M.M.** (2015). Computer intensive methods for improving the extremal index estimation. In T. E. Simos, G. Psihoyios, Ch. Tsitouras and Z. Anastassi (eds.), *Numerical Analysis and Applied Mathematics ICNAAM 2014, AIP Conference Proceedings 1648*, American Institute of Physics, 540005:

BOOKS NATIONAL

(1)

Amaral Turkman, M.A. e **Paulino, C. D.** (2015). *Estatística Bayesiana Computacional – uma Introdução*. Edições SPE, Lisboa.

CHAPTER OF BOOKS NATIONAL

(3)

Martins, D.S., Paredes, P., **Cadima, J.**, Pires, C.A.L., Pereira, L.S. (2015). Cálculo da evapotranspiração de referência usando dados climáticos de reanálise. In: Pires, C.A.L., Pereira, L.S. (eds.), *Predictabilidade Sazonal de Secas. Avaliação ao nível regional e agrícola*. ISA Press, ISBN 978-972-8669-63-8, p.57-75.

Paredes P., Paço T.A., Rosa R.G., Pôças I., **Neves M.M.**, Pereira L.S., (2015). Avaliação do uso da água em regadio: aplicação do modelo SIMDualKc a cevada, milho e olival. In: C.A.L. Pires, L.S. Pereira (Eds.) *Predictabilidade Sazonal de Secas. Avaliação ao nível regional e agrícola*. pp. 245-278 (in Portuguese)

Prata Gomes, D., Moreira E.E., **Neves M.M.** (2015). Revisão de metodologias de extremos espaciais aplicados à modelação de máximos de precipitação em zonas de risco em Portugal. In: C.A.L. Pires, L.S. Pereira (Eds.) *Predictabilidade Sazonal de Secas. Avaliação ao nível regional e agrícola*. pp. 93-103 (in Portuguese)

BOOKS (EDITOR) NATIONAL

(1)

Cordeiro, C., Ribeiro, C., Sousa, C., Gonçalves, M.H e Antunes, N. (2015). XXII Congresso da Sociedade Portuguesa de Estatística: Programa e Livro de Resumos, Edições SPE, ISBN: 978-972-8890-36-0, Depósito Legal: 398265/15 (286 pages).

PUBLICATIONS NATIONAL

(6)

Cardoso F., Ricardo L.B., Oliveira A.M., Horta D.V., Papoila A.L., Deusa J.R., Canena J. (2015). C-reactive Protein at 24 Hours after Hospital Admission May Have Relevant Prognostic Accuracy in Acute Pancreatitis: A Retrospective Cohort Study. *GE Portuguese Journal of Gastroenterology* **22**, **5**, p.198-203.

Gomes, M.I. (2015). As minhas experiências na África do Sul e no SASA 2014. *Boletim da SPE*, Primavera de 2015, 9-12.

Gouveia-Reis, D., Guerreiro Lopes, L. e Mendonça, S. (2015). Máximos anuais de precipitação diária na Ilha da Madeira: Um estudo sobre níveis de retorno, 12.º *Simpósio de Hidráulica e Recursos Hídricos dos Países de Expressão Portuguesa - Comunicações e Posters*. ISBN: 978-989-8509-14-7

Henriques-Rodrigues, L., Gomes, M.I. and Pestana, D. (2015). Estatística de Extremos em Desporto. *Boletim da SPE*, Primavera de 2015, 36-44.

Sousa, L. e Silva, C. (2015). Estatística em biologia molecular: o passado, o presente e o futuro. *Boletim da Sociedade Portuguesa*, Outono, 24-27. ISSN: 1646-5903.

Santos, V., Poças, I.M., Silva-Fortes, C., Alves, N. e Cardoso, A. (2015). Análise da Acuidade Visual no o Implante de LIO Fáquica em elevadas miopias. *Revista Saúde & Tecnologia*, (14):11-15. ISSN:1646-9704.

PROCEEDINGS NATIONAL

(2)

Antunes, M.L., Silva, C. e Reis, C. (2015). Uma cultura de colaboração entre professores e bibliotecários: a orientação tutorial de estudantes de radiologia no ISCISA (Maputo). 12º Congresso Nacional BAD, Évora, Outubro.

Santos, A. and Felgueiras, M. (2015). A abordagem dos conceitos de continuidade e limite e a sua lecionação na ESTG Leiria. In *Atas da Conferência Internacional de Investigação, Práticas e Contextos em Educação 2015*, Pinto Hélia G.; Dias, M. Isabel e

Muñoz, Romain, Editado por Escola Superior de Educação e Ciências Sociais, IPL, pp-123-129. ISBN: 978-989-8797-06-6. <http://sites.ipleiria.pt/ipce2015/livro-de-atas-2/>

SEMINARS BY INVITATION

(16)

Fraga Alves, M. Isabel (2015). “*A General Estimator for the Right Endpoint - with an Application to Supercentenarian Women's Records*”. Invited Research Seminar in Katholieke Universiteit Leuven. Leuven, Belgium, 19 November 2015.

Gomes, M. Ivette (2015). “*Reliability of Large Coherent Systems and Penultimate Approximations in Extreme Value Theory*”. Invited Seminar on Statistics and Risk Management, Centro de Matemática e Aplicações, FCT/UNL, October 28, 2015.

Gomes, M. Ivette (2015). “*Gestão e Controlo Estatístico da Qualidade — Fiabilidade*”. Invited Seminar, Departamento de Matemática, Universidade dos Açores, June 6, 2015.

Gomes, M. Ivette (2015). “*Gestão e Controlo Estatístico da Qualidade — Cartas de Controlo*”. Invited Seminar, Departamento de Matemática, Universidade dos Açores, May 29, 2015.

Gomes, M. Ivette (2015). “*Médias de Ordem Real versus Médias de Ordem Zero na Estimação de Parâmetros de Acontecimentos Raros*”. Invited Seminar, Departamento de Matemática, Universidade da Madeira, February 9, 2015.

Gonçalves, Luzia (2015). “*Por detrás dos Dados*”. Dia Mundial da Estatística, 20 de Outubro de 2015, Lisboa. (Comunicação por Convite)

Paulino, C. Daniel (2015). “*Semi-parametric Bayesian Analysis of Binary Responses with a Continuous Covariate Subject to Non-random Missingness*”, Dep. Statistics, IME, University of São Paulo, April 24th 2015. Invited seminar.

Pestana, Dinis (2015). “*Como a Estatística Mudou o Mundo — A Estatística e a Transformação de Informação em Conhecimento*”, 8 sessions at FCUL: 1) O Nosso Aliado Acaso; 2) Normal?; 3) Ter Muitas Ideias e Deitar Quase Todas Fora; 4) Amostragem e Planeamento de Experiências; 5) O Milagre da Multiplicação dos Dados; 6) Regressão, Ensaio clínico, Controle de qualidade; 7) Abusos da Estatística; 8) Para que serve a Estatística.

Polidoro, M. João (2015). “*A nonparametric Bayesian test of fit*” (joint work with **Magalhães, F.** and **Amaral Turkman, M.A.**). Invited Seminar. Departamento de Estadística e Investigación Operativa, Universidade de Vigo, 16 July 2015

Silva, Giovanni (2015). “*Modelling of Disease Incidence Rates by Age-groups over Health Regions*”. Seminar at University of Colorado, Colorado School of Public Health, 20/05/2015.

Silva, Giovanni (2015). *“Conversations Statistics for Students ... and not only”*. Seminar at Universidade Federal de São Carlos, Department of Statistics, 16/04/2015.

Silva, Giovanni (2015). *“Bayesian Regression for Proportion Data on Wildfires”*. Seminar at Universidade Federal de São Carlos, Department of Statistics , 17/04/2015

Silva, Giovanni (2015). Disease mapping: an application to infant mortality in Brazil. Seminar at Universidade de São Paulo, Statistics Department, 20/03/2015.

Silva, Giovanni (2015). Spatio-temporal models for correlated binomial data. Seminar at Universidade de São Paulo, Statistics Department, 23/03/2015.

Silva, Giovanni (2015). Introdução aos modelos espaço-temporais: uma abordagem bayesiana. Seminar at Universidade Federal do Rio Grande do Sul, Mathematics Department, 12-13/03/2015.

Sousa, Lisete (2015). The Importance of Statistics in Bioinformatics. Probability and Statistics Seminars. Instituto Superior Técnico, 7 de maio de 2015.

PARTICIPATION IN CONFERENCES

Plenary talks

(3)

Figueiredo, Fernanda (2015). *“Controlo Estatístico de Processos: Reamostragem em Planos de Aceitação e Cartas de Controlo”*. Plenary session at XXII Jornadas de Classificação e Análise de Dados (JOCLAD 2015), Barreiro, Portugal. Abril 10-11.

Pestana, Dinis (2015). *“Mendel-based Verhulst Type Population Dynamics”*. Plenary session at 9th Workshop on Statistics, Mathematics and Computation, Dezembro, 14 a 15, Palácio Ceia, Lisboa.

Silva, Giovanni (2015). *“Bayesian Joint Modelling: Application to Wildfire Hazards”*. IV Workshop on Survival Analysis and Applications (WASA), Belo Horizonte - Brazil, 30/11-2/12/2015. (invited plenary talk)

Invited talks

Funded by CEAUL with funds from 2014 (1)

Amaral Turkman, M.A. and **Turkman, K.F.** (2015). *“Calibration Problems for Spatial Data”*. First Workshop of European Network for Model-driven Investigation of Environmental Processes (ENMIEP), invited session, March 12-13, 2015, Department of Statistical Sciences “P. Fortunati”, University of Bologna.

Partially funded by CEAUL, FCT, 2015 (5)

Gomes, M.I. (invited speaker), Caeiro, F., **Figueiredo, F.** and **Pestana, D.** (2015). “A Partially Reduced-Bias Class of Value-at-Risk Estimators”. 60th World Statistics Congress—ISI 2015, Rio de Janeiro, 26-31 July 2015.

Gonçalves, L. (2015). “Dados, Ética e Modelos na Saúde Tropical: Constrangimentos e Desafios”. XXII Congresso da SPE, 07-10 outubro 2015, Olhão (Portugal). (Comunicação por Convite, parcialmente financiada pelo CEAUL)

Oliveira, A. (invited speaker), **Oliveira, T.A.** and Seijas-Macias, A. (2015). “Evaluation of Kurtosis into the Product of Two Normally Distributed Variables”. 13th International Conference of Numerical Analysis and Applied Mathematics - ICNAAM2015, Rhodes, Greece, 23-29 Setembro 2015 <http://conferencestat2015.wix.com/wsmc9>

Oliveira, T.A. (invited speaker), Francisco, C., **Oliveira, A.** and Ferreira, A. (2015). “Using R in Experimental Design with BIBD: An Application in Health Sciences”. 13th International Conference of Numerical Analysis and Applied Mathematics - ICNAAM2015, September 23-29, 2015, Rhodes, Greece.

Silva, Giovanni (2015). A joint analysis of counts and severity for zero-inflated longitudinal data. XV Conferencia Española de Biometría and V Encuentro Iberoamericano de Biometría, Bilbao - Spain, 22-25/09/2015. (invited session). (Financiado parcialmente pelo CEAUL)

NOT funded by CEAUL (21)

Brilhante, M.F. (invited speaker), **Pestana, D.**, Semblano, P. and Sequeira, F. (2015). “Mendel Processes, Mendel Mixtures and Meta Analysis”. 9th Workshop on Statistics, Mathematics and Computation, December 14-15, Palácio Ceia, Lisboa.

Brilhante, M.F., Pestana, D., Semblano, P. and Sequeira, F. (invited speaker) (2015). “Autoregressive Mendel Processes”. 9th Workshop on Statistics, Mathematics and Computation, December, 14-15, Palácio Ceia, Lisboa.

Brilhante, M.F., Pestana, D., Semblano, P. (invited speaker) and Sequeira, F. (2015). “The Estimation of the Proportion of Messy p-values—a Challenging Problem”. 9th Workshop on Statistics, Mathematics and Computation, December, 14-15, Palácio Ceia, Lisboa.

Caeiro, F. (invited speaker) and **Gomes, M.I.** (2015). “*Mean of Order p Reduced Bias Estimation of the Extreme Value Index: a Computational Study*”. CMStatistics’15. 8th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2015), London, December 12-14.

Felgueiras, M. (invited speaker), **Santos, R.** and **Martins, J.P.** (2015). “*Increasing Tailweight by a Mixing Process*”. 9th Workshop on Statistics, Mathematics and Computation, December, 14-15, Palácio Ceia, Lisboa.

Figueiredo, A. (invited speaker) and **Figueiredo, F.** (2015). “*Monitorização da Variabilidade de um Processo Skew-normal Multivariado*”. Presentation at the session “*Cartas de Controlo da Qualidade*”, XXII Jornadas de Classificação e Análise de Dados, JOCLAD 2015, Barreiro, Portugal. Abril 10-11.

Figueiredo, F. (invited speaker) and **Gomes, M.I.** (2015). “*The Exact Distribution of the Total Median and the Total Range Statistics*”, presented at the Mini-Symposia on “*Statistical Inference, Numerical and Combinatorial Methods*”, Conference on Matrix Analysis and its Applications (Mat Triad 2015), Universidade de Coimbra, 7-11 September 2015.

Figueiredo, F. (invited speaker), Figueiredo, A. and **Gomes, M.I.** (2015). “*Acceptance Sampling Plans for Inflated Pareto Processes*”, ISSPM 2015—*The 4th International Symposium on Statistical Process Monitoring*, July 7-9, 2015, Padua, Italy.

Gonçalves, Luzia (2015). “*Avaliação Nutricional em Populações de Difícil Acesso*”. Sessão: *Malnutrição nos países em desenvolvimento* (com a colaboração de Amado, M., Alves, D., Santos, Z., Craveiro, I., Lapão, L., Cabral, J., Delgado, A., Correia, A.). XVII Congresso Nacional da APNEP (Associação Portuguesa de Nutrição Entérica e Parentérica). 27-28 de Abril 2015, Lisboa (Portugal).

Gonçalves, Luzia (2015) ... “*Determinantes Sociais e Segurança Alimentar: o exemplo da Cidade da Praia – Cabo Verde*”. Seminário Segurança Alimentar e Nutricional na Medicina Tropical: caminhos comuns na CPLP.(com a colaboração de Craveiro, I., Alves, D., Amado, M., Lapão, L., Santos, Z., Cabral, J., Delgado, A., Correia, A.). Encontro Satélite do 3º Congresso Nacional de Medicina Tropical e 1º Congresso Lusófono de doenças transmitidas por vetores. 17 de Abril 2015, Lisboa (Portugal).

Gonçalves, Luzia (2015)... “*Malnutrição e Desigualdades Nutricionais – Cidade da Praia, Cabo Verde*”. Sessão: *Malnutrição nos países em desenvolvimento* (com a colaboração de Alves, D., Craveiro, I., Delgado, A., Correia, A., Amado, M., Lapão, L.,

Cabral, I., Santos, Z.). XVII Congresso Nacional da APNEP (Associação Portuguesa de Nutrição Entérica e Parentérica). 27-28 de Abril 2015, Lisboa (Portugal).

Infante, P. (invited speaker), Freitas, R., **Figueiredo, F.**, Jacinto, G. e Dias, J. (2015). “Monitorização de Tempos de Procedimentos Académicos”. Presented at the session “Cartas de Controlo da Qualidade”, XXII Jornadas de Classificação e Análise de Dados, JOCLAD 2015, Barreiro, Portugal. Abril 10-11.

Martins, J. (invited speaker), **Felgueiras, M.** and **Santos, R.** (2015). “Mixtures of Infected and Uninfected Samples”. 9th Workshop on Statistics, Mathematics and Computation, December, 14-15, Palácio Ceia, Lisboa.

Oliveira, T.A. (invited speaker), Leal, C. and **Oliveira, A.** (2015). “Statistical Challenges in the Evaluation of Medical Data: SRSM and Monte Carlo Simulation”. 16th Conference of the Applied Stochastic Models and Data Analysis International Society (ASMDA International), June 30 – July 4, 2015, University of Piraeus, Athens, Greece.

Oliveira, T.A. (invited speaker), Leal, C. and **Oliveira, A.** (2015). “Stochastic Response Surface Methodology: a Tool to Risk Assessment”. 6th International Conference on Risk Analysis, ICRA 6 / RISK 2015, Barcelona, May 26-29.

Oliveira, T.A. (invited speaker), **Oliveira, A.** and Francisco, C. (2015). “Combinatorial Designs as a Tool to Recover Information from Damaged QR Codes”. 16th Applied Stochastic Models and Data Analysis International Conference - ASMDA 2015, Athens - Greece, 30/6/15 a 4/7/15

Oliveira, T.A. (invited speaker), **Oliveira, A.** and Henning, E. (2015). “Factorial Designs and Taguchi Method: Application to the Study of Light-cured Composite Resins, using R”. ISI 2015 60th World Statistics Congress. Rio de Janeiro-Brasil.

Santos, R. (invited speaker), **Felgueiras, M.** and **Martins, J.P.** (2015). “Parametric estimation in Pseudo-convex Mixtures generated by the Power Function Distribution”. 9th Workshop on Statistics, Mathematics and Computation, December, 14-15, Palácio Ceia, Lisboa.

Sepúlveda, Nuno (2015) (invited speaker). “Immunology, Epidemiology and Mathematical Modelling: three musketeers for malaria elimination era”. 1st Baltic conference “Mathematical modeling: theory and practice”, Riga, Letónia.

Cabral, M.S. (2015) (invited speaker). “Análise de Dados Longitudinais Binários Incompletos em Estudos Clínicos”. XXII Congresso da SPE, October, 07-10, Olhão.

Valcheva, P. (invited speaker) and **Oliveira, T.A.** (2015). *“Combinatorial Structures in Experimental Design - Overview and Statistical Models”*. The 16th Conference of the Applied Stochastic Models and Data Analysis International Society (ASMDA International), 30 June - 4 July 2015, University of Piraeus, Greece.

CONTRIBUTED TALKS in 2015

International

2014 FCT Funds: (5)

Felgueiras, M. (speaker), **Santos, R.** and **Martins, J.P.** (2015). *“Searching for the Corner Seismic Moment in Worldwide Data”*. 11th International Conference of Computational Methods in Sciences and Engineering, March 20-23, Athens, Greece.

Martins, J.P. (speaker), **Felgueiras M., Santos, R.** (2015). *“Three-Dimensional Array-Based Group Testing Algorithms With One Stage”*. 11TH International Conference of Computational Methods in Sciences and Engineering, March 20-23, Athens, Greece.

Pereira, C.P. (2015). *“The Role of Forensic Dentistry in Identification of Single Cadavers: Forensic Case Works”*. 23th IALM, Dubai, January 19-21, 2015.

Banheiro, R., Escobar, C.P. and **Pereira, C.P.** (2015). *“The Importance of the Dentist in the Diagnosis of Physical Child Abuse: Types of injuries and the Legal Framework of the Portuguese Penal Law”*. Poster presented at 23th IALM, Dubai, January 19-21, 2015.

Pereira, C.P., Anne-Morais, M., Vilhena, P., Sousa, A.P., Pinho, M., Nunes, N., Reis, J., Santos, J.C. (2015). *“The Role of Forensic Dentistry in a Transnational Forensic Human Identification Case Work”*. Poster presented at 23th IALM, Dubai, January 19-21, 2015.

Partially funded by FCT, 2015: (2)

Gomes, M.I. (speaker) and Henriques-Rodrigues, L. (2015). *“Application of the PORT Methodology to Recent Extreme Value Index Estimators”*. 8th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2015), London, December 12-14, 2015.

Gomes, M.I. (speaker), Caeiro, F., **Figueiredo, F.** and **Pestana, D.** (2015). *“Reduced-Bias Value-at-risk Semi-parametric Estimation”*. 9th International Conference on Extreme Value Analysis, The University of Michigan, Ann Arbor, 15-19 July.

NOT funded by FCT: (36)

Abrantes, C.F., Santos, R., **Pestana, D.** and **C.P. Pereira** (2015). *“Dental Morphological Characteristics with Application in Human Forensic Identification: Mathematical Function for Forensic Sexual Diagnosis in Portuguese Population”*. Poster presented at 23th IALM, Dubai, January 19-21, 2015.

Antunes, Marília (2015). (work presented by collaborators: Aparício, Mariana; Matos, Tiago D; Arguello, Patricia; Antunes, Marilia; Escada, Pedro; O’Neill, Assunção; O’Neill, João; Fialho, Graça; Caria, Helen). *“AGE-RELATED HEARING LOSS: IS THIS A PREVENTABLE CONDITION?”*, 52nd Annual Inner Ear Biology Workshop & Symposium, In 52nd Annual Inner Ear Biology Workshop & Symposium, Roma.

Antunes, Marília (2015). (work presented by collaborators: Chora, Joana; Aparício, Mariana; Matos, Tiago D; Arguello, Patricia; Fialho, Graça; Caria, Helena; Antunes, Marília). *“Age-related Hearing Loss: Are we on the way to alter fate?”*, Healthy Ageing: From Molecules to Organisms, pg.A73. A Wellcome Trust Scientific Conference, , In Proc. Healthy Ageing: From Molecules to Organisms,, Hinxton, Cambridge.

Antunes, Marília (2015). (work presented by collaborators: M.C.Proença, M.T. Rebelo, M. Antunes, M.J.Alves, H.C. Osório, S. Cunha, J. Casaca). *“The Culex Pipiens Niche: Assessment with Climatic and Physiographic Variables via a Geographic Information System”*. *International Conference on Ecological and Environmental Engineering*. Stockholm, Sweden, July 2015.

Antunes, Marília (2015). (work presented by collaborators:M.C.Proença, M.T. Rebelo, M. Antunes, M.J.Alves, H.C. Osório, S. Cunha). *“Index of Suitability for Culex Pipiens sl. Mosquitoes in Portugal Mainland”*. *International Conference on Geographic Information Systems*. Paris, France, May 2015. DOI: 10.13140/RG.2.1.1647.4005

Antunes, Marília (2015). (work presented by Daniel Viriato). *“Disease mapping and spatial-temporal analysis of hospital admissions due to heart failure in Portugal”*. ISPOR 18th Annual European Congress – Milan, Italy, 7-11 November 2015.

Antunes, Marília (2015). (work presented by Daniel Viriato). *“Real-world effectiveness of amlodipine/ valsartan/ hydrochlorothiazide single-pill combination in the treatment of patients with essential hypertension”*. ISPOR 18th Annual European Congress – Milan, Italy, 7-11 November 2015.

Antunes, Marília (2015). (work presented by Susana Rodrigues in coloboration with António Almeida, Daniel Viriato). *“Real-world evidence of iron chelation therapy in*

transfusion-dependent MDS patients: a Portuguese hospital registry". ISPOR 18th Annual European Congress – Milan, Italy, 7-11 November 2015.

Bras-Geraldes, C. (2015). *"Generalized Additive Neural Networks with Flexible Parametric Link Function"*. (em colaboração com **Papoila, A.**, Xufre, P. e **Sousa, L.**). Euro Mini Conference on Improving Healthcare: New Challenges, New Approaches, Coimbra – Portugal, March 30-April 1, 2015.

Cesário, C., Santos, R., **Pestana, D.** and **C.P. Pereira** (2015). *"Medico-Legal Age Estimation in Subadult Portuguese Population: Validation of Atlas Shour & Massler and London"*. Poster presented at 23th IALM, Dubai, January 19-21, 2015.

Francisco, C. and **Oliveira, T.A.** (2015). *"Risk of Data Loss on QR Codes: Hadamard Matrices and Links to Block Designs"*. The 2015 International Conference on Risk Analysis- ICRA6 and the 6th Workshop on Risk Management and Insurance - RISK2015 , Barcelona, Spain, 26-29 May 2015.

Francisco, C. and **Oliveira, T.A.** (2015). *"BIBD as a Link between Experimental Design and Coding Theory"*. 45th International Biometrical Colloquium, Dymaczewo - Poland, September 6-9 2015.

Francisco, C. and **Oliveira, T.A.** (2015). *"Biometrics Authentication: Exploring Links to Combinatorial Designs and their Applications to Authentication Codes"*. 8th Conference of Eastern Mediterranean Region International Biometric Society 2015 , Cappadocia, Nevsehir, Turkey, 11-15 May 2015.

Francisco, C., **Oliveira, A.**, **Oliveira, T.A.** (2015). *"Hadamard Matrices on Information Theory"*. Matriad, September 7-11, 2015, Coimbra, Portugal.

Francisco, C., **Oliveira, T.A.** and **Oliveira, A.** (2015). *"Application of Hadamard Matrices to Information Security, Error Correction and their Links to Combinatorial Designs"*. 7th International Workshop on Mathematics e-Learning, UAb-Porto, Portugal, June 8 and 9, 2015.

Francisco, C., **Oliveira, T.A.** and **Oliveira, A.** (2015). *"Combinatorial Designs and their Applications to Authentication Codes in Risk Analysis"*. 9th Workshop on Statistics, Mathematics and Computation, Universidade Aberta, Lisboa, December, 14-15 2015.

Frasier, K. E., Wiggins, S. M., Harris, D., **Marques, T.A.**, Thomas, L., Merkens, K. P. and Hildebrand, J. A. (2015). *"Passive Acoustic Monitoring of Dolphins in the Gulf of*

Mexico: 2010 to 2013". The 7th International Detection, Classification, Localization, and Density Estimation Workshop, La Jolla, CA, 2015.

Frasier, K.E., Wiggins, S. M., Harris, D., **Marques, T.A.**, Thomas, L., Merkens, K. P. (2015). "Passive Acoustic Monitoring of Dolphins in the Gulf of Mexico: 2010 to 2013", 2015 Gulf of Mexico Oil Spill and Ecosystem Science Conference, Houston, TX.

Gonçalves, A.F., Diamantino, F., **Pestana, D.** and **C.P. Pereira** (2015). "The medico-legal importance of establishing human identity by palatal rugoscopy: evaluation of the immutability and individuality of palatal rugae under the influence of ante mortem orthodontic treatment". Poster presented at 23th IALM, Dubai, January 19-21, 2015.

Gonçalves, Luzia (2015). "Evaluación nutricional y adecuación del padrón alimentario en adultos de la capital de Cabo Verde" (com a colaboração de Alves, D., Santos, Z., Simões, R., Amado, M., Craveiro, I., Cabral, J., Lapão L.V., Delgado, A.P., Correia, A.). 3er Congreso de FESNAD: "Alimentación y Nutrición: necesidad global". 5-7 March 2015, Sevilla (España).

Gonçalves, Luzia (2015)... "Self-perception of salt consumption and its intake among adults living in tree urban units in Praia – Cape Verde" (joint work with Alves, D., Santos, Z., Amado, M., Simões, R., Craveiro, I., Cabral, J., Lapão L.V., Delgado, A.P., Correia, A.). EuroPrevent 2015 – The international forum in preventive cardiology. 14-16 May 2015, Lisboa (Portugal).

Gonçalves, Luzia (2015). "Hypertension and lifestyle in three urban units in Praia – Cape-Verde". EuroPrevent 2015 – (joint work with Simões, R., Santos, Z., Alves, D., Amado, M., Craveiro, I., Cabral, J., Lapão L.V., Delgado, A.P., Correia, A.). The international forum in preventive cardiology. 14-16 May 2015, Lisboa (Portugal).

Hildebrand, J.A., Baumann-Pickering, J.S., Frasier, K., Trickey, J., Merkens, K., Wiggins, S., McDonald, M., **Marques, T.A.**, Harris, D. and Thomas, L. (2015). "Presence of Deep-Diving Cetaceans in the Gulf of Mexico during and Following the Deepwater Horizon Oil Spill", 2015 Gulf of Mexico Oil Spill and Ecosystem Science Conference, Houston, TX.

Leal, C. and **Oliveira, T.A.** (2015). "Metodologia de Superfície de Resposta e Algoritmos Genéticos - Otimização em Problemas de Multiresposta". 7th International Workshop on Mathematics e-Learning, UAb-Porto, Portugal, June 8 and 9, 2015.

Marques, T.A., Shaffer, J., Baggenstoss, P., Moretti, D. and Thomas, L. (2015). "All together now: Understanding at Depth Group Behavior of beaked Whales at AUTECH".

The 7th *International Detection, Classification, Localization, and Density Estimation Workshop*, La Jolla, CA, 2015.

Marques, T.A., Shaffer, J., Moretti, D. and Thomas, L. (2015). *“Ingredients for a Good LATTE: Statistical Methods Servicing Biological Questions”*, 22st Biennial Conference on the Biology of Marine Mammals, San Francisco, CA, 2015.

Miranda, C., Souto de Miranda, M. (speaker) and **Gomes, M.I.** (2015). *“Searching for robust estimates of the extremal index”*. 8th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2015), London, December 12-14, 2015.

Neves, M.M. (speaker), Penalva, H. and Nunes, S. (2015). *“Extreme Value Analysis of River Levels in a Hydrometric Station in the North of Portugal”*. *International Conference on Risk Analysis (ICRA6) and 6th Workshop on Risk Management and Insurance (RISK2015)*, Barcelona May 26 - 29, 2015.

Neves, M.M. (speaker), Penalva, H. and Nunes, S. (2015). *“A Survey on Statistical Choice of Extreme Value Models”*. *XII Congreso Galego de Estatística e Investigación de Operacións*, Lugo, October 22 - 24, 2015.

Osteras, N. , Jordan, K., Clausen, B., **Cordeiro, C.**, Dziedzic, K. Gronhaug, G., Lund, H., Pais, S., Hagen, K.B. (2015). *“EULAR 2015—Differences in Self-reported Quality of Care for Knee Osteoarthritis across Denmark, Norway, Portugal and United Kingdom”*. Rome, Italy, 10 to 13 June 2015.

Pereira, C.P. (2015). *“Avaliação do Dano Orofacial Pós-traumático em Contexto de Má Prática Médica e/ou Erro Médico: Conceitos Biomecânicos e Biológicos”*. *VII Congresso Hispano-Luso de Avaliação do Dano Corporal/IV Congresso Ibérico de Medicina Legal e Ciências Forenses*, Porto, May 2015.

Santos, R. (2015). *“Continuous Probabilities, Random points, Bernoulli's Theorems, and Geometric Probability Applications”*, AMS-EMS-SPM International Meeting 2015, Porto, June 10-13, 2015.

Santos, R. and **Felgueiras, M.** (2015). *“A Abordagem dos Conceitos de Continuidade e Limite e a sua Lecionação na ESTG Leiria”*. Conferência Internacional de Investigação, Práticas e Contextos em Educação, May 5-7, Leiria.

Silva, Carina (2015). *“Influence of reconstruction parameters for FBP in semiquantification of Brain Studies with 123I-FPCIT”*. (F. Alves¹, R. Adães, C. Silva, E. V.

Sousa), Annual Congress of the European Association of Nuclear Medicine, October 10 – 14, 2015, Hamburg, Germany.

Silva, Giovanni (2015). *“Joint modelling and data analysis of wildfire hazards”*. 60th International Statistical Institute World Statistics Congress, Rio de Janeiro - Brazil, 26-31/07/2015. (Financed by Canada).

Thomas, L., Harris, D. and **Marques, T.A.** (2015). *“DE: the State of the Art”*. The 7th International Detection, Classification, Localization, and Density Estimation Workshop, La Jolla, CA, 2015

Contributed talks and posters in 2015

National

Partially funded by FCT: (5)

Brilhante, M.F., Pestana, D., Semblano, P. (speaker) and Sequeira, F. (2015). *“Pseudo-valores-p e Meta Análise”* XXII Congresso da Sociedade Portuguesa de Estatística, Olhão, October 7-10, 2015.

Gomes, M.I. (speaker) and L. Henriques-Rodrigues (2015). *“Aplicação da Metodologia PORT a Estimadores Recentes do Índice de Valores Extremos”* XXII Congresso da Sociedade Portuguesa de Estatística, Olhão, October 7-10, 2015.

Sepúlveda N. (2015). *“Improving global health: some statistical challenges on the path of malaria elimination”* (with Drakeley C.). XXII Congresso da SPE, 07-10 October, 2015, Olhão.

Ramos, Sandra (2015). *“O processo de Dirichlet dependente em problemas de triagem”* (with Antunes, M. and Amaral Turkman, M.A.) XXII Congresso da SPE, 07-10 October, 2015, Olhão.

Silva, Giovanni (2015). *“Modelagem e análise conjunta de riscos de incêndios”*. XXII Congresso da Sociedade Portuguesa de Estatística, Olhão - Portugal, 7-10/10/2015.

NOT funded by FCT: (25)

Aleixo, S. and Simões, H. (speaker). (2015). *“Análise espacial das chamadas de uma linha de cuidados de saúde nacional em contexto de gestão hospitalar”* XXII Congresso da Sociedade Portuguesa de Estatística, Olhão, October 7-10, 2015.

Antunes, Marília (2015). (work presented by Daniel Viriato). *“Real-world effectiveness of amlodipine/ valsartan/ hydrochlorothiazide single-pill combination in the treatment of patients with essential hypertension”*. 14ª Conferência Nacional de Economia da Saúde – Lisboa, Portugal, October 15-16, 2015.

Antunes, Marília (2015). (work presented by Susana Rodrigues in collaboration with António Almeida, Daniel Viriato). *“Real-world evidence of iron chelation therapy in transfusion-dependent MDS patients: a Portuguese hospital registry”*. IX Congresso Nacional da APIH. October 8-9, 2015.

Antunes, Marília (2015). (work presented by Susana Rodrigues in collaboration with António Almeida, Daniel Viriato). *“Real-world evidence of iron chelation therapy in transfusion-dependent MDS patients: a Portuguese hospital registry”*. Reunião Anual SPH, November 12-14, 2015.

Cabral, I. (speaker), Caeiro, F. and **Gomes, M.I.** (2015). *“Correção do Viés do Estimador de Hill: uma Nova Abordagem”* XXII Congresso da Sociedade Portuguesa de Estatística, Olhão, October 7-10, 2015.

Ferreira, S. (presenter) and **Santos, R.** (2015). *“O papel das Estruturas Geométricas na Estatística”*, poster presented at XXII Congresso da Sociedade Portuguesa de Estatística, Olhão, October 7-10, 2015.

Figueiredo, A. (presenter) and **Figueiredo, F.** (2015). *“Aplicação do coeficiente RV em Controlo Estatístico da Qualidade”*, poster presentation at XXII Congresso da Sociedade Portuguesa de Estatística, Olhão, October 7-10, 2015.

Figueiredo, F. (presenter), Figueiredo, A. and **Gomes, M.I.** (2015). *“Distribuição de Pareto Inflacionada em Controlo Estatístico da Qualidade”*, poster presented at XXII Congresso da Sociedade Portuguesa de Estatística, Olhão, October 7-10, 2015.

Francisco, C. and **Oliveira, T.A.** (2015). *“Delineamento Combinatório e Aplicações a Códigos de Autenticação e Segurança de Informação: uma Abordagem baseada em Matrizes de Hadamard”*. 3ªs Jornadas de Matemática da Universidade Aberta em Lisboa, Portugal, a 28 de março 2015 - Palácio Ceia.

Gonçalves, Luzia (2015). *“UPHI-STAT: Actividade física e risco cardiometabólico: o urbano conta?”* (com a colaboração de Delgado, A., Correia, A., Amado, M. Santos, Z., Alves, D., Velez Lapão, L., Cabral, J., Craveiro, I) Congresso Médico Nacional, 28-30 de Maio 2015, Cidade da Praia (Cabo-Verde).

Gonçalves, Luzia (2015) *“A relação entre a morfologia de cidade: modelo conceptual vs. modelo estatístico”*. (com a colaboração de Santos, Z., A. Amado., Castel Branco, M., Alves, D., Craveiro, I., Delgado, A., Correia, A.) *XXII Congresso da SPE*, 07-10 outubro 2015, Olhão (Portugal).

Gonçalves, Luzia (2015). *“UPHI-STAT: As complexidades do meio urbano e a saúde”*. (com a colaboração de Delgado, A., Correia, A., Amado, M. Santos, Z., Alves, D., Velez Lapão, L., Cabral, J., Craveiro, I.,) *Congresso Médico Nacional*, 28-30 de Maio 2015, Cidade da Praia (Cabo-Verde).

Gonçalves, Luzia (2015). *“UPHI-STAT: Os determinantes sociais e o futuro da saúde nas cidades, o caso da Praia”*. (com a colaboração de Craveiro, I., Delgado, A., Correia, A., Amado, M., Alves, D., Santos, Z., Velez Lapão, L., Cabral, J.) *Congresso Médico Nacional*, 28-30 de Maio 2015, Cidade da Praia (Cabo-Verde).

Gonçalves, M.H. and **Cabral, M.S.** (2015). *“Método de Monte Carlo e integração numérica na análise de dados longitudinais não gaussianos com estrutura de correlação Markoviana”*. *XXII Congresso Anual da Sociedade Portuguesa de Estatística*. Olhão. Portugal.

Gouveia-Reis, D. (presenter) and Abreu, A.M. (2015). *“Análise de Sobrevivência e Valores Extremos em R”*, poster presented at *XXII Congresso da Sociedade Portuguesa de Estatística*, Olhão, October 7-10, 2015.

Marques, T.A. and Thomas, L. (2015). *“Using a Blend of Statistical Methods to Evaluate the Effect of Sonars in Cetaceans”*, *XXII Congresso da Sociedade Portuguesa de Estatística*, Olhão, Portugal, 2015.

Miranda, C. (presenter), **Gomes, M.I.** and Souto-Miranda, M. (2015). *“Estimação Robusta do Índice Extremal”*, poster presentation at *XXII Congresso da Sociedade Portuguesa de Estatística*, Olhão, October 7-10, 2015.

Paulino, C.D. (2015). *“Comparação de intervalos de confiança e de credibilidade para funções de probabilidades de sucesso”* (coautoria de T. Castro e J. Singer). *XXII Congresso da SPE*, October 07-10, 2015, Olhão (Portugal).

Penalva, H., Nunes, S. and **Neves, M.** (presenter) (2015). *“Estimação de parâmetros de acontecimentos raros: revisão de metodologias no estudo de dados hidrológicos”*, poster presented at *XXII Congresso da Sociedade Portuguesa de Estatística*, Olhão, October 7-10, 2015.

Polidoro, M.J. (2015). “A distribuição àrvore de Pólya na inferência bayesiana não paramétrica”, em co-autoria com Fernando Magalhães, XXII Congresso da Sociedade Portuguesa de Estatística, Olhão, October 7-10, 2015 (poster).

Ramos, M.R. e **Cordeiro, C.** (2015). “Sensibilidade dos Testes de Tendência em Séries Temporais com Valores Omissos”. XXIII Congresso da sociedade Portuguesa de Estatística, October 7 -10, Olhão, Portugal.

Santos, R., Felgueiras, M. and **Martins, J.P.** (2015). “Comparação do Desempenho de Estimadores em Misturas Pseudo-convexas via Simulação” XXII Congresso da Sociedade Portuguesa de Estatística, Olhão, October 7-10, 2015.

Silva, Carina (2015). “Empregabilidade em Radiologia na Escola Superior de Tecnologia da Saúde de Lisboa”, (Letícia Lima, Carla Gonçalves, Carina Silva, Cláudia Sá dos Reis), VII Encontro Nacional das Ciências e Tecnologias da Saúde, November, 12, 13, 14, 2015, Lisboa, Portugal.

Sousa, L. (2015). “Data Mining Analysis of Lung Cancer Electronic Health” (Poster). (com a colaboração de Silva, Ana Cristina; Pesquita, C., Miranda, A. e Mayer, A.). Bioinformatics Open Days, Lisboa – Portugal, April 10, 2015.

Sousa, R., **Santos, R., Martins, J.P.** and **Felgueiras, M.** (2015). “Metodologias de Classificação baseadas em Testes Compostos: um Estudo Comparativo via Simulação” XXII Congresso da Sociedade Portuguesa de Estatística, Olhão, October 7-10, 2015.

MASTER DISSERTATIONS

(23)

Aleixo, Sandra and Nunes Eusébio, E.A.M. (supervisors): Gaspar José Pinheiro Cardoso da Costa, Mestrado em Engenharia Electrotécnica - Ramo de Energia, ancorado na Área Departamental de Engenharia Eletrotécnica de Energia e Automação do Instituto Superior de Engenharia de Lisboa, “Previsão de Diagramas de Carga via Holt-Winters com 3 Sazonalidades”.

Antunes, Marília (supervisor): Daniel Filipe Viriato Pereira, “Spatial-temporal analysis of hospital admissions due to heart failure in Portugal”, Mestrado em Bioestatística, DEIO-FCUL, 27 Outubro 2015.

Figueiredo, F. (supervisor): Joana Cristina da Costa Carvalho, Mestrado em Análise de Dados e Sistemas de Apoio à Decisão (MADSAD) da FEP, Universidade do Porto/Estágio na Corticeira Amorim, *“Sistemas de Informação e Cartas de Controlo para Monitorização de um Processo Produtivo”*.

Figueiredo, F. and Figueiredo, A. (supervisors): Miguel Andrade do Vale, Mestrado em Análise de Dados e Sistemas de Apoio à Decisão (MADSAD) da FEP, Universidade do Porto, *“Controlo de Infeções Hospitalares através de Cartas de Controlo”*.

Gonçalves, Luzia (supervisor): Ana Bouca, *“Alimentação e actividade física em adultos jovens, com e sem filhos, na Cidade da Praia em Cabo Verde”*. Dissertação para obter o Grau de Mestre em Saúde e Desenvolvimento. Instituto de Higiene e Medicina Tropical - Universidade Nova de Lisboa, p.106, 2015.

Martins, L. and **Santos, Rui** (supervisors): Mário João Dias Carvalho, Mestrado em Gestão de Sistemas de Informação Médica da Escola Superior de Tecnologia e Gestão do Instituto Politécnico de Leiria em associação com a Faculdade de Medicina da Universidade do Porto, *“Caracterização de um Fila de Espera de um Serviço Hospitalar - um Estudo de Caso”*.

Oliveira, Amílcar (supervisor): Francisco Tchissaquila Chimuco, Mestrado em Estatística, Matemática e Computação [Universidade Aberta], *“Modelos de Regressão Linear: Fatores que Influenciam a Esperança de Vida em Angola”*.

Oliveira, Teresa (supervisor): Carla Susete Gonçalves Francisco, Mestrado em Estatística, Matemática e Computação [Universidade Aberta], *“Delineamento Experimental em Blocos Incompletos: Estudo de Casos Particulares”*.

Oliveira, Teresa (supervisor): Osvaldo Benvindo Ávido, Mestrado em Estatística, Matemática e Computação [Universidade Aberta], *“Planeamento de Experiências na Otimização da Fuba de Milho”*.

Oliveira, Teresa and **Oliveira, Amílcar** (supervisors): Filipe Gorjão Clara Castro Charters de Azevedo, Mestrado em Estatística, Matemática e Computação [Universidade Aberta], *“Estatística Experimental e Análise de Risco: Metodologias de Otimização Aplicadas ao Ramo dos Seguros Não Vida”*.

Oliveira, Teresa and **Oliveira, Amílcar** (supervisors): Maria da Conceição Dias Leal, Mestrado em Estatística, Matemática e Computação [Universidade Aberta], *“Metodologia de Superfície de Resposta: Uma Ferramenta de Otimização”*.

Oliveira, Teresa and **Oliveira, Amílcar** (supervisors): Mauro de Oliveira Souza, Mestrado em Estatística, Matemática e Computação [Universidade Aberta], *“Delineamento Experimental e Amostragem: uma aplicação no Ensino Público da Educação Básica no Estado da Rondônia-Brasil”*.

Oliveira, Teresa and **Oliveira, Amílcar** (supervisors): Paula Maria Pereira Barroso Rolha, Mestrado em Bioestatística e Biometria [Universidade Aberta], *“Malformações Fetais, Que Futuro?”*.

Papoila, Ana Luísa (co-supervisor) Student: Teresa Reis, *“Changes in prescribing patterns of benzodiazepines after training of primary health care doctors”*, NOVA Medical School/Faculdade de Ciências Médicas da Universidade Nova de Lisboa, July 2, 2015.

Pereira, C.P. (supervisor): Irina Oliveira, Mestrado em Ciências Forenses pela Universidade de Lincoln, *“Medico-Legal Age Estimation in Non-identified Cadavers: Optimization of Aspartic Acid Racemization Methods (pH effect)”*.

Pereira, C. P. (supervisor): José Chissonde, Pós-graduação/especialização em Ciências Criminais: Direito Penal e Investigação Criminal, na área da Medicina Legal, *“A PERÍCIA MÉDICO-LEGAL DOS CRIMES DE OFENSA À INTEGRIDADE FÍSICA DOS ARTIGOS 143.º E 144.º DO CÓDIGO PENAL PORTUGUÊS”*.

Pereira, C.P. (supervisor): Ana Naceva, Mestrado em Ciências Forenses pela Universidade de Lincoln, *“Medico-legal Age Estimation in Non-identified Cadavers: Optimization of Aspartic Acid Racemization Method and Evaluating the Temperature Effect”*.

Pereira, C.P. (supervisor): Ana Segurado, Pós-graduação/especialização em Ciências Criminais: Direito Penal e Investigação Criminal, na área da Medicina Legal, *“INTERVENÇÃO MÉDICA EM DIREITO PENAL: A IMPORTÂNCIA DA PROVA PERICIAL MÉDICO-LEGAL NO CRIME DE VIOLÊNCIA DOMÉSTICA”*.

Pereira, C.P. and **Santos, Rui** (supervisors): Francisca Luz, Mestrado Integrado de Medicina Dentária - Universidade de Lisboa, Faculdade de Medicina Dentária, *“Determinação Médico-Legal do Sexual através da Queiloscopia numa População Portuguesa”*.

Pereira, C.P. and **Santos, Rui** (supervisors): Lara Cartaxo, Mestrado Integrado de Medicina Dentária - Universidade de Lisboa, Faculdade de Medicina Dentária, *“Identificação Médico-legal de uma População Portuguesa através da Queiloscopia”*.

Santos, Rui (supervisor): Andrea Inês Gaspar Cravo Dias, Mestrado em Ciências da Educação - Especialização em Utilização Pedagógica das Tecnologias da Informação e Comunicação na Escola Superior de Educação e Ciências Sociais do Instituto Politécnico de Leiria, “*O Uso da Simulação no Ensino de Probabilidades*”.

Sousa, Lisete (supervisor): Ioana Posa, “*LincRNA profile in clear cell renal cell carcinoma using RNA-seq data*”, Projeto de Mestrado em Bioinformática e Biologia Computacional, Faculdade de Ciências da Universidade de Lisboa, Orientador externo: Ana Rita Grosso (IMM-FMUL), January 12, 2015.

Sousa, Lisete (supervisor): Joana Tavares. “*LincRNA's profile SETD2 downregulated cells*”. Projeto de Mestrado em Bioinformática e Biologia Computacional, Faculdade de Ciências da Universidade de Lisboa. Orientador externo: Ana Rita Grosso (IMM-FMUL), October 29, 2015.

PH.D. THESES

(4)

Ramos, Sandra (co-supervisor): Octávio Adolfo Viana. “*Pairs trading: Hedging with an edge?*” Universidade Portucalense Infante D. Henrique - Porto, July 22, 2015.

Papoila, Ana Luísa (supervisor): Ricardo Miguel Vieira de São João, “*Métodos Estatísticos Aplicados à Modelação de Dados Oncológicos*”, Doutoramento em Ciências da Vida (Especialidade de Bioestatística e Informática). NOVA Medical School/Faculdade de Ciências Médicas da Universidade Nova de Lisboa, April 8, 2015.

Papoila, Ana Luísa (co-supervisor): Lucília Catarina das Neves Diogo, “*Evaluation of Antihypertensive Drugs in Patients with Obstructive Sleep Apnea and in Rats Submitted to Chronic Intermittent Hypoxia*”, Doutoramento em Ciências da Vida, na especialidade de Ciências Funcionais e Alvos Terapêuticos (Farmacologia). NOVA Medical School/Faculdade de Ciências Médicas da Universidade Nova de Lisboa, July 13, 2015.

Gomes, M.I. (Member of the monitoring committee): Eduardo Sousa Costa got the degree in 2015. Thesis title: “*Análise de Precipitações Intensas e de Caudais Extremos em Países com Economias Emergentes de Rápido Desenvolvimento. Aplicação a Angola*” (co-supervision of António Gonçalves Henriques and Anabela Leitão), IST, Universidade de Lisboa.

PROJECTS RUNNING in 2015

(27)

Cordeiro, C. (team member) European League Against Reumatism (EULAR), 2013-2015, "*Patient Self-reported Quality of Osteoarthritis Care—comparing Cross-national Data from Denmark, UK, Portugal and Norway*" Countries: Norway (Convenor: Nina Osteras), Denmark, United Kingdom and Portugal (team: Sandra Pais and Clara Cordeiro).

Ferreira, A. (team member) - *VolkswagenStiftung*: WEX-MOP project, funded by Volkswagen Foundation, coordinator: Dr. Petra Friederichs from Bonn University.

Ferreira, A. (team member) EU FP7 program: MODEXTREME— *Modelling Vegetation Response to Extreme Events*. I: Gianni Bellocchi, INRA, France.

Figueiredo, F. (coordinator), A. Figueiredo (member) and **M. Ivette Gomes** (member) - Industry Project on "*Delineamento de Planos de Amostragem para Deteção do Composto 2,4,6-Tricloroanisol e Análise Sensorial*". Amorim Florestal, S.A. Period: October 2014-June 2015 (concluded).

Gomes, M.I. (CEAUL member of the Managing Committee) – COST (European Cooperation in Science and Technology) Action IC1408, 2014-2018: "*Computationally-intensive Methods for the Robust Analysis of Non-standard Data*". Coordinator: Erricos Kontoghiorghes, April 2015-April 2018.

Gomes, M.I. (Co-chair jointly with Clément Dombry, Michael Falk and Armelle Guillou). *Specialized Working Group (WG) on Statistics of Extremes and Applications (SEA)*, integrado em ERCIM WG on Computational and Methodological Statistics (CMStatistics), since 2012.; Other CEAUL members: **Paulo Araújo Santos, Patricia de Zea Bermudez, M. Isabel Fraga Alves, Manuela Neves, Cláudia Neves,**

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

Gonçalves, Luzia (team member) - "OSYRISH: *Organizational and Informational System to Improve the communication Management of Healthcare Associated Infections in Hospitals*" (PTDC/ICV-COM/5016/2012). Fundação para a Ciência e Tecnologia. Principal Investigator: Inv. Doutor Luís Lapão (IHMT-UNL), (2013-2015).

Gonçalves, Luzia (team member) – “*How are they coping? A health economic study of the impact of the financial crisis on physicians from 2 ACES in Portugal*”. Prémio Santander Totta/NOVA research award in Social Sciences. Principal Investigator: Prof. Doutor Giuliano Russo (IHMT-UNL) (2014-2016).

Gonçalves, Luzia (Principal investigator) - “*Urban Planning and Health Inequities - moving from macro to micro statistics*” (PTDC/ATP-EUR/5074/2012). Funding agency: Fundação para a Ciência e Tecnologia. [Field work in Cabo Verde] (2013-2015).

Gonçalves, Luzia (team member) – Project HATTool - *A Toolkit to Prevent, Manage and Control Healthcare-Associated*. EEA Grant. Investigador Principal: Inv. Doutor Luís Lapão (IHMT-UNL) (2015 – ...)

Gonçalves, Luzia (team member) - HIVERA 0001/2013 – “*A combination of two gp41 peptides for a new prophylactic vaccine both neutralizing HIV-1 and inhibiting CD4 depletion*”. France INSERM, coordination), Germany (Institute for Biomedical Research) and Portugal (Instituto de Higiene e Medicina Tropical). European Union. Principal Investigator in Portugal: Inv. Doutor José Marcelino (IHMT-UNL), (2014-2016).

Gonçalves, Luzia (research network member) – “*MulhereSTrop - Rede Lusófona de Mulheres nas Ciências da Saúde Tropical*”. Financiamento: Fundação Elsevier. (2013 - Present).

Gonçalves, Luzia; Paulino, Carlos Daniel; Silva, Giovanni (research network members) - “*BioStatNet - Red Nacional de Bioestadística*”. Financiamento: Ministeria de Ciencia e Inovación, España, MTM2010-0913-E. (2010 - Present).

Marques, Tiago (Co-PI jointly with L. Thomas, D. Moretti and J. Shaffer). - Office of Naval Research, US, “*Beaked Whale Group Deep Dive Behaviour from Passive Acoustic Monitoring*”, 2015. Co-PI: Tiago Marques (jointly with L. Thomas, D. Moretti and J. Shaffer).

Marques, Tiago (Co-PI jointly with S. Buckland) – “*Joint Norwegian Russian 2015 polar bear survey*”, Norwegian Polar Institute, NOR.

Marques, Tiago (PI) - Norwegian Polar Institute, NOR, “*Support on the analysis of cetacean data from the Northern Barents Sea*”, 2015. PI: Tiago Marques.

Marques, Tiago (Co-PI jointly with L. Thomas and D. Moretti). - Living Marine Resources program, US, “*DECAF-TEA: Density Estimation for Cetaceans from Acoustic Fixed Sensors in Testing and Evaluation Areas*”, 2015.

Marques, Tiago (Co-PI) - Joint Industry Program, US, “*Long Term Fixed Acoustic Monitoring of Marine Mammals throughout the Life Cycle of an Offshore E&P Field Development*”, 2015.

Oliveira, Teresa (PI)- SEG: 05.13.25.008.00.00: “*Soluções Tecnológicas para a Adequação da Paisagem Rural ao Código Florestal Brasileiro*” (SOLCOF: Technologies solutions for implementing the new Brazilian Environmental Law). Programa de Financiamento / Entidade Financiadora: Departamento de Transferencia de Tecnologia, desde 2014/05/01 até 2018/04/30.

Papoila, Ana Luísa (team member) - “*Acute Kidney Injury Beginning in the Emergency Room: Early detection and outcomes*” (Hospital Fernando Fonseca, 2008-2015). PI: Karina Soto. Financed by: Sociedade Portuguesa de Nefrologia, (2008-2015).

Papoila, Ana Luísa (team member) “*HivKlomics: new insights on tubular injury and nephrotoxicity diagnosis and prediction in HIV-infected patients*”. PI: Karina Soto. PROJECT GRANT OF FUNDAÇÃO PARA A CIÊNCIA E A TECNOLOGIA: EXPL/DTP-FTO/1792/2013-2015.

Pereira, C. P. (team member) - 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)*”.

Sepúlveda, Nuno (team member) - Feasibility of a serological assay for malaria elimination certification. PI: Chris Drakeley. Financed by: Bill & Melinda Gates Foundation), (2015).

Sepúlveda, Nuno (team member) – “*HaMec: Haiti Malaria Elimination*”. Coordinated by Centre for Disease Control. by: Bill & Melinda Gates Foundation, (2015).

Turkman, K.F., Amaral Turkman, M.A. and **Antunes, Marília** (CEAUL team members) - PERSSILAA, SEVENTH FRAMEWOK 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).

Turkman, K.F., M.A. Turkman, M. Antunes, Patricia de Zea Bermudez, Paula Pereira (CEAUL team members) - Proposal Reference OC-2015-2-19972, Title: “*Quantifying uncertainty for the assessment of interactions between environmental and ecological processes*”, Proposal Acronym QUBEEP; Daniela Cocchi, coordinator.

Organization of invited sessions, seminars and conferences

Organized directly by CEAUL

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SEMINÁRIO ÂMBITO MESTRADO BIOESTATÍSTICA: Estatística nos Ensaios Clínicos - Experiência Profissional numa CRO	Dr. Rui Simões - PAREXEL International GmbH -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.31 - 16:30h	18-Dez-2015
SEMINÁRIO: Measuring Malaria of Hygiene Elimination: Random Ideas for a Deterministic Situation	Prof. Nuno Sepúlveda - London School of Hygiene and Tropical Medicine & CEAUL -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.31 - 15:30h	18-Dez-2015
SEMINÁRIO: Nonparametric Bayesian Inference for the Youden Index and its Associated Optimal Cutoff Value	Profª Vanda Inácio - Pontificia Universidad Católica de Chile -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30 - 15:30h	7-Dez-2015
SEMINÁRIO ÂMBITO MESTRADO BIOESTATÍSTICA: Influence of Lipids on the Development of Mammary Adenocarcinomas. A Longitudinal Study	Profª M. Salomé Cabral - CEAUL/ DEIO (FCUL) -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30 - 16:00h	3-Dez-2015
SEMINÁRIO: Nonstationary Extremal Dependence Structures: Time and Space	Prof. Miguel de Carvalho - Pontificia Universidad Católica de Chile -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30 - 15:30h	30-Nov-2015
SEMINÁRIO ÂMBITO MESTRADO BIOESTATÍSTICA: Conceitos Estatísticos na Estimação da Abundância de Ursos Polares de Barentz	Prof. Tiago Marques - CREEM / University of St Andrews e DEIO -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30 - 16:00h	19-Nov-2015
SEMINÁRIO: "To be or not to be Bayesian: That IS NOT the Question"	Prof. João Branco - Instituto Superior Técnico -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30 - 14:30h	18-Nov-2015
SEMINÁRIO ÂMBITO MESTRADO BIOESTATÍSTICA: Análise Exploratória de Dados Composicionais usando Biplots	Profª Adelaide Freitas - Departamento de Matemática & CIDMA - Universidade de Aveiro -	FCUL - Campo Grande - Bloco C6 Piso 2 - Sala: 6.2.50 - 16:00h	9-Nov-2015

SEMINÁRIO ÂMBITO MESTRADO BIOESTATÍSTICA: Doppler Flow Pattern in Patients with Aortic Coarctation	Drª Susana Cordeiro - Serviço de Cardiologia, Hospital da Luz e Hospital de Santa Cruz -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30 - 16:00h	29-Out-2015
SEMINÁRIO: Recent Advances in Spatial Modelling of Distance Sampling Surveys	David L Miller - Centre for Research into Ecological and Environmental Modelling - University of St. Andrews - Scotland -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30 - 14:30h	11-Jun-2015
SEMINÁRIO: Bayesian Data Analysis in Population Ecology: Motivations, Methods, and Benefits	Prof. Robert Dorazio - U.S. Geological Survey - Southeast Ecological Science Center, USA -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30 - 14:30h	4-Jun-2015
SEMINÁRIO: Statistical Models for Ecological Data	Cornelia Oedekoven - Centre for Research into Ecological and Environmental Modelling - University of St. Andrews - Scotland -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30 - 11:30h	13-Mai-2015
SEMINÁRIO: Using Latent Gaussian Models to Infer the Spatial Structure Inherent in Point Patterns	Charlotte Jones-Todd - Centre for Research into Ecological and Environmental Modelling - University of St. Andrews - Scotland -	FCUL - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.31 - 11:30h	1-Abr-2015
SEMINÁRIO: Estimating Correlation using Intraday Price Data in Financial Markets	Dr. Valentin Popov - Centre for Research into Ecological and Environmental Modelling - University of St. Andrews - Scotland -	FCUL - Campo Grande - Bloco C6 Piso 2 - Sala: 6.2.52 - 14:30h	20-Mar-2015
SEMINÁRIO: On the Reconstruction of Malaria Infection History in the Brazilian Amazonia Region	Prof. Nuno Sepúlveda - London School of Hygiene and Tropical Medicine, United Kingdom/Center of Statistics and Applications of University of Lisbon, Portugal -	FCUL (DEIO) - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.30-14:30h	14-Jan-2015
SEMINÁRIO: A High Order Moments Method for Endpoint and Frontier Estimation	Prof. Gilles Stupfler - Aix-Marseille Université - Groupement de Recherche en Économie -	Universidade de Aveiro - Departamento Matemática - Sala Sousa Pinto - 15:00h	14-Jan-2015
SEMINÁRIO: Spatial Extreme Value Analysis for Fire Risk Assessment	Prof. Ben Shaby - Statistics Department - Penn State University - USA -	Fundação FCUL (Anfiteatro) - 14:30h	7-Jan-2015

Scientific and Organizing committees

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Arte e Educação com os Aronautas da Liberdade, 29/3-5/4, 2015, Santarém, Portugal.

CEAUL members of Scientific Committee: **A. Oliveira, Teresa A. Oliveira.**

<https://www.facebook.com/events/1561613004090952>

3as Jornadas de Matemática da Universidade Aberta, March, 28, 2015, Universidade Aberta, Lisboa, Portugal. CEAUL Members of scientific committee: **Amílcar Oliveira, Teresa A. Oliveira.**

<https://sites.google.com/site/matematicaaberta2015/home>

CroNoS: *COST Action Launching*. Brussels, March 30. Member of the Managing Committee: **M. Ivette Gomes.**

6º Encontro Nacional da SPMet: LUZ, VISÃO e IMAGEM—Medição e Inovação, CTCV — Centro Tecnológico da Cerâmica e do Vidro, Coimbra, Março 31. CEAUL members of the Scientific Committee: **M. Ivette Gomes** and **Dinis Pestana.**

XXII Jornadas de Classificação e Análise de Dados (JOCLAD 2015), Barreiro, Portugal. Abril 10-11. CEAUL members of the Scientific Committee: **Jorge Cadima** and **M. Manuela Neves.**

XXII Jornadas de Classificação e Análise de Dados (JOCLAD 2015)—Invited session entitled “*Cartas de Controlo da Qualidade*”. Organizers: **Fernanda Figueiredo** and Luis Grilo.

3rd International Meeting in Forensic Sciences and Criminal Behaviour, organized by Instituto Superior Egas Moniz, Universidade de Lincoln and Universidade de Córdoba, Egas Moniz, May 8-9, 2015. Member of the Organizing Committee: **Cristiana Palmela Pereira.** <http://3imforensicsciencecb.wixsite.com/3imforensicsciencecb>

6th International Conference on Risk Analysis, ICRA 6 / RISK 2015, May, 26-29, 2015, Barcelona, Spain. Co-Chair and Member of scientific committee: **Teresa A. Oliveira;** Other CEAUL members of the International Scientific Committee: **M. Ivette Gomes, M. Manuela Neves, Amílcar Oliveira, Dinis Pestana.**

<http://www.uoc.edu/portal/en/symposia/icra6/Home/index.html>

The 8th Chaotic Modeling and Simulation International Conference: CHAOS 2015, Paris, France, May 26-29. CEAUL members of the International Scientific Committee: **M. Ivette Gomes** and **Dinis Pestana.**

7th *International Workshop on Mathematical E-Learning*, E-MATH 2015, June 8-9, 2015, Universidade Aberta, Porto, Portugal. CEAUL members of organizing and scientific committees: **Amílcar Oliveira** and **Teresa A. Oliveira**.

<https://sites.google.com/site/7themath2015/home>

9th *International Conference on Extreme Value Analysis: EVA* 2015, The University of Michigan, Ann Arbor, Michigan, USA. June 15-19, 2015. CEAUL member of the Program Committee: **M. Ivette Gomes** and **Laurens de Haan**.

16th *Conference of ASMDA International Society*, Piraeus, Greece, June 30-July 4. CEAUL Member of the Scientific Committee: **M. Ivette Gomes**.

2ª *Conferência da Amazônia e Nordeste em Estatística Experimental e Análise de Risco*, August, 4-7, 2015, Campina Grande. Paraíba, Brasil. CEAUL members of the Executive Committee: **Teresa A. Oliveira**, **M. Ivette Gomes**; CEAUL member of the Honor Committee: **M. Ivette Gomes**; CEAUL Members of Scientific Committee: **Teresa A. Oliveira**, **Amílcar Oliveira**. <http://www.ansra2.uepb.edu.br/>

XLV *International Biometrical Colloquium*, September, 6-9, 2015, Dymaczewo-Poznan, Polónia. Member of organizing committee: Teresa A. Oliveira; CEAUL members of the scientific committee: **Teresa A. Oliveira**, **Amílcar Oliveira**, **M. Ivette Gomes**, **M. Manuela Neves**. http://www1.up.poznan.pl/cb45/index_en.html

Technological Ecosystems for Enhancing Multiculturality TEEM'2015, October 7-9, 2015, Porto, Portugal. CEAUL members of scientific committee: **A. Oliveira**, **Teresa A. Oliveira**. <http://2015.teemconference.eu/>

XXII *Congresso Anual da Sociedade Portuguesa de Estatística*, Olhão, October 7-10, 2015. CEAUL members of the Organizing Committee: **Clara Cordeiro**, **Conceição Ribeiro**, **M. Helena Gonçalves**. CEAUL members of the Scientific Committee: **Carlos Daniel Paulino**, **Clara Cordeiro**, **Conceição Ribeiro**, **M. Antónia Turkman**, **M. Manuela Neves**.

XXII *Congresso Anual da Sociedade Portuguesa de Estatística*, Olhão, October 7-10, 2015—Invited organized session entitled “*Consultoria Estatística*”, Organizer: **Tiago Marques**.

XXII *Congresso Anual da Sociedade Portuguesa de Estatística*, Olhão, October 7-10, 2015—Invited organized session entitled “*Educação*”, Organizer: **Luísa Canto e Castro** <http://spe2015.mozello.com>

5ª Conferência Ibérica de Empreendedorismo, CIEM2015, October 15-18, 2015, Oeiras, Portugal. CEAUL members of scientific committee: **A. Oliveira, Teresa A. Oliveira.** <http://www.empreend.pt/conferencia2015/>

8th International Conference of the ERCIM WG on Computational and Methodological Statistics (ERCIM 2015), London, UK, December 12-14. Invited session on “Modeling and Computation in Statistics of Extremes”. Organizer: **M. Ivette Gomes**; Invited Speakers: Jan Beirlant, Frederico Caeiro, Holger Rootzen and Gilles Stupfler.

9th Workshop on Statistics, Mathematics and Computation, December 14-15, 2015, Universidade Aberta, Lisboa, Portugal. Chair and Member of organizing and scientific committees: **Teresa Oliveira**; CEAUL members of the International Scientific Committee: **Amílcar Oliveira, Antónia Turkman, Dinis Pestana, Feridun Turkman, M. Ivette Gomes, Manuela Neves.** <http://conferencestat2015.wix.com/wsmc9>

9th Workshop on Statistics, Mathematics and Computation, December 14-15, 2015, Universidade Aberta, Lisboa, Portugal —Invited organized session entitled “Mendel Processes, Mendel Mixtures and Meta Analysis”, Organizers: **M. Fátima Brilhante** and **Dinis Pestana.**

9th Workshop on Statistics, Mathematics and Computation, December 14-15, 2015, Universidade Aberta, Lisboa, Portugal —Invited organized session entitled “Mixtures in Statistics”, Organizers: **Miguel Felgueiras, João Paulo Martins** and **Rui Santos.**

Workshop Espaço Urbano e Saúde, October 29-30, 2015, Cidade da Praia, Cabo Verde
Organizer: **Gonçalves, Luzia**

ADVANCED and SPECIALIZED TRAINING

Organized by CEAUL

CURSO: Using INLA to Fit Complex Spatial Models to Ecological Data	FCUL (DEIO) - Campo Grande - Bloco C6 Piso 4 - Sala: 6.4.31- 14:00h - 17:30h	1-Abr-2015
Charlotte Jones-Todd		

Lectured by members of CEAUL

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Amaral Turkman, M.A. e **Paulino, C.D.** (2015). XXII Congresso da SPE, 07-10 outubro 2015, Olhão: - Minicurso convidado: "*Estatística Bayesiana Computacional - uma introdução*".

Amaral Turkman, M.A. e **Valeska Andreozzi** (2015). "*Estatística em Biomedicina*" (3 sessões), 20-21 Abril, 2015. Prática e Investigação em Saúde, EXIGO consultores. Hospital Garcia da Orta, Centro de Investigação Garcia da Orta.

Gomes, M.I. (2015). "*Controlo Estatístico da Qualidade*", Departamento de Matemática, Universidade dos Açores, Maio, 2015.

Gomes, M.I. (2015). "*Statistics of Extremes*" (G0B19a), KULeuven 2014-2015, 2nd semester (March, April 2015).

Marques, T.A. (2015). "*Introduction to Density Estimation from Acoustic Data*". Curso contratado para dar formação à Marinha Norte-Americana, Norfolk, VA, San Diego, CA, Honolulu, HI, Herndon, VA.

Oliveira, A. (2015). "*Análise Conjunta de Regressões (ACR): Teoria e Aplicações*". 2ª Conferência Internacional da Amazônia em Estatística Experimental e Análise de Risco, August 4-7, 2015, Campina Grande, Paraíba, Brasil.

Oliveira, T.A. e Grilo, L., "*Controlo Estatístico da Qualidade e Aplicações na Indústria*". Invited Course no ANSRA 2-2ª Conferência Internacional da Amazônia e Nordeste em Estatística e Análise de Risco. 4-7 de agosto de 2015, Campina Grande, Paraíba, Brasil.

Oliveira, T.A., Curso livre em "*Metodologias de Superfície de Resposta com Aplicação na Indústria*", ANSRA 2- 2ª Conferência Internacional da Amazônia e Nordeste em Estatística e Análise de Risco. 4-7 de agosto de 2015, Campina Grande, Paraíba, Brasil.

Oliveira, T.A., Oliveira, A. e Francisco, C., "*Planos em Blocos Incompletos Equilibrados: Ligações aos QR Codes e aplicações na área de Marketing com recurso ao software R*", Seminário de Mestrado, Faculdade de Ciências Sociais e Humanas, UBI, Covilhã, Dezembro 2015.

Papoila, Ana Luísa (2015). "*INTRODUCTORY BIOSTATISTICS for BIOLOGISTS*", Instituto Gulbenkian de Ciência, June 15th- 19th, 2015.

Ramos, Sandra (2015). *“Análise quantitativa de dados com SPSS”* – 5ª Edição | 40 horas, Instituto Superior de Engenharia do Porto - Porto.

Sepúlveda, Nuno (2015) *“Quantitative methods and Statistics”*, January 2015, Instituto Gulbenkian de Ciência, Oeiras, Portugal.

Sepúlveda, Nuno (2015). *“Theoretical Biology, Epidemiology and Statistics”*, July 2015, Universidade de Cabo Verde, Cidade da Praia, Cabo Verde

Silva, Carina (2015) Curso *“Reforço da Capacitação Institucional do Instituto Superior de Ciências da Saúde de Maputo”* no âmbito da parceria da ESTeSL, FCG e ISCISA. Local: ISCISA, Maputo, Moçambique, Janeiro 2015.

Silva, Carina (2015) *“Curso de introdução às técnicas laboratoriais para investigação – Módulo - O papel da Estatística na Investigação Científica”*. Parceria Fundação Calouste Gulbenkian, Fundação Eduardo dos Santos e ESTeSL. Local-ESTeSL, Lisboa, Portugal, Abril 2015.

GRANTS

Giovani Silva: short-term Visiting researcher (short-term), Sao Paulo Research Foundation, Fundação de Amparo à Pesquisa do Estado de São Paulo (FAPESP) 2014/24333-1, 2015.

Giovani Silva: Sabbatical leave, Fundação para a Ciência e Tecnologia (FCT), SFRH/BSAB/1404/2014, 2014/2015.

PRIZES

Papoila, Ana Luísa: PREMIO ROCHE 2015 da SOCIEDADE PORTUGUESA DE NEFROLOGIA ao artigo original: *“The likelihood of recovering or losing kidney function after a mild Acute Kidney Injury. Are Biomarkers a useful tool for prediction?”*

CONSULTANCY 2015

de Zea Bermudez, Patrícia e **Antunes, Marília** “Optimização de um Sistema de Filas de Espera”; ENTIDADE - PROSEGUR, under protocol with FFCUL for the period 9-16 November 2015.

Antunes, Marília: Scientific consultant for Novartis under protocol with FFCUL since June 2015

REPORTS

(6)

Amaral Turkman, M.A., **Antunes, M.** and **Turkman, K.F.** (2015). Deliverable no. D3.1; Title of the deliverable: *Screening methods and anticipatory triage protocol*. Project full title: *PERSONALISED ICT SUPPORTED SERVICES FOR INDEPENDENT LIVING AND ACTIVE AGEING*, Project Acronym: PERSSILAA.

Cabral, M. S. and **Gonçalves, M. H.** *On Fitting Generalized Linear Mixed Effects Models for Longitudinal Binary Data Using Different Correlation Structures*. Submitted Preprint.

Caeiro, F., **M. Ivette Gomes**, J. Beirlant and T. Wet (2015) *Mean-of-order-p Reduced-bias Extreme Value Index Estimation under a Third-order Framework*. Notes and Communications, CEAUL 02/15

Figueiredo F., Adelaide Figueiredo and **M. Ivette Gomes** (2015). *Acceptance Sampling Plans for Inflated Pareto Processes*, Notes and Communications, CEAUL 04/15

Gomes, M.I., Frederico Caeiro, **Fernanda Figueiredo** and **Dinis Pestana** (2015). *A Partially Reduced-Bias Class of Value-at-Risk Estimators*. Notes and Communications, CEAUL 03/15

Gomes, M.I., Lígia Henriques-Rodrigues and B.L. Manjunath (2015) *Mean-of-order-p Location-invariant Extreme Value Index Estimation*. Notes and Communications, CEAUL 01/15